

2003-2005 **Catalog**



College

2003-2005 Catalog Lansing Community

www.lcc.edu



400-600 North Washington Square, P.O. Box 40010, Lansing, Michigan 48901-7210 Information Center (517) 483-1620 or 1-800-644-4LCC • 24-hour-a-day assistance (517) 483-1111 Office of Disability Services Telephone Device for the Deaf, TDD (517) 483-1218 World Wide Web: http://www.lcc.edu Accredited by North Central Association—The Higher Learning Commission

LCC: SUCCESS BEGINS HERE

Lansing Community College has been committed to the best in education for over forty years. As one of the largest, most comprehensive community colleges in the country, we are continuing that commitment into the new millennium. Year round classes are offered on our 28-acre, capital city campus. There are more than 150 degree and certificate programs and over 2,500 classes. The first two years of a liberal arts education can be earned at LCC and transferred to a four-year college or university. We offer a comprehensive mix of education and training, and we provide state-of-the-art computer labs and classrooms as well as a continuously updated media services center and library within the Abel B. Sykes, Jr. Technology and Learning Center.

In addition to our main campus, we operate the Aviation Center at Capital City Airport in Lansing, the Truck Driver Training Center near Battle Creek, and the STAR Institute career training center. Our Business & Community Institute delivers customized training, business, and personal development services for business, industry, government, and working professionals. We also offer international programs such as our Japan Adventure program.

We have Learning Centers in more than 20 communities within a 30-mile service district which makes Lansing Community College accessible to more people in more areas. For the ultimate in accessibility, we offer a series of Internet courses through our Virtual College.

Lansing Community College is accredited by the North Central Association of Colleges and Schools and serves nearly 40,000 people annually. We are committed, as ever, to lifelong education for all.

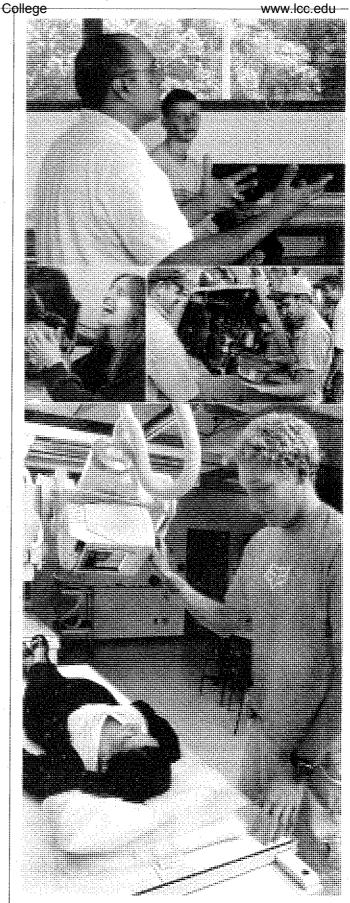
Lansing Community College-Success Begins Here!

www.lcc.edu

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Please keep this catalog as a reference to the learning opportunities available at Lansing Community College. Education is a lifelong process, and LCC continues to be a resource for its students throughout the nation and the world. Success begins at LCC, but continued success enriches for an entire lifetime.



MISSION

Lansing Community College exists so that the people it serves have learning and enrichment opportunities to improve their quality of life and standard of living.

VISION

Serving the learning needs of a changing community.

GUIDING PRINCIPLES

- LCC will be a focused "Comprehensive Community College," offering learning opportunities in career and workforce development, general education, developmental education, and personal enrichment.
- 2. LCC will maintain and support a well-qualified, committed faculty and staff who utilize both proven tradi-
- tional and progressive student-centered learning approaches.
- LCC commits to providing the highest level of quality in its programs and services and will maintain high expectations of its students.
- LCC will be flexible, affordable, and accountable, continuously improving student learning and support services through the assessment of measurable outcomes.
- 5. LCC will strive to be "state of the art" in all that it does, while pursuing a select number of "cutting edge" initiatives.
- LCC will be connected to the world, culturally and technologically.
- LCC seeks cooperative relationship with both private and public organizations, pursuing growth not as an end in itself but only when it best serves student and community needs.
- 8. LCC will prepare those it serves to thrive in a diverse world by reflecting that diversity in its staffing, planning, and allocation of resources.
- LCC within its broader purpose of serving the entire community in diverse ways, recognizes a special responsibility to young adults, those from lower income brackets, and those requiring developmental academic or entry-level career skills.
- LCC will manage its finances in a responsible manner; allocating resources and achieving efficiencies to best serve the priority needs of its students and the taxpayers who support its operation.
- 11. LCC is a dedicated community member working for the betterment of all.



www.lcc.edu

Lansing Community College

BOARD OF TRUSTEES

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Mark H. Canady

Chris A. Laverty

Rondy L. Murray

Kathy G. Pelleran

Robert E. Proctor

Thomas Rasmusson

The Board of Trustees abides by the Open Meetings Act which allows opportunities for student and/or public comment.

MESSAGE FROM THE PRESIDENT

Welcome to Lansing Community College!

Whether you are learning new career skills. preparing to transfer to a four-year institution, or developing a personal interest, all of us at LCC are committed to meeting your needs and helping you accomplish your goals.

Lansing Community College is one of the nation's most respected higher education/institutions. Our state of the art technology, diverse course offerings and highly trained faculty and staff are ready to help you develop your talents and skills in the academic area of your choice.



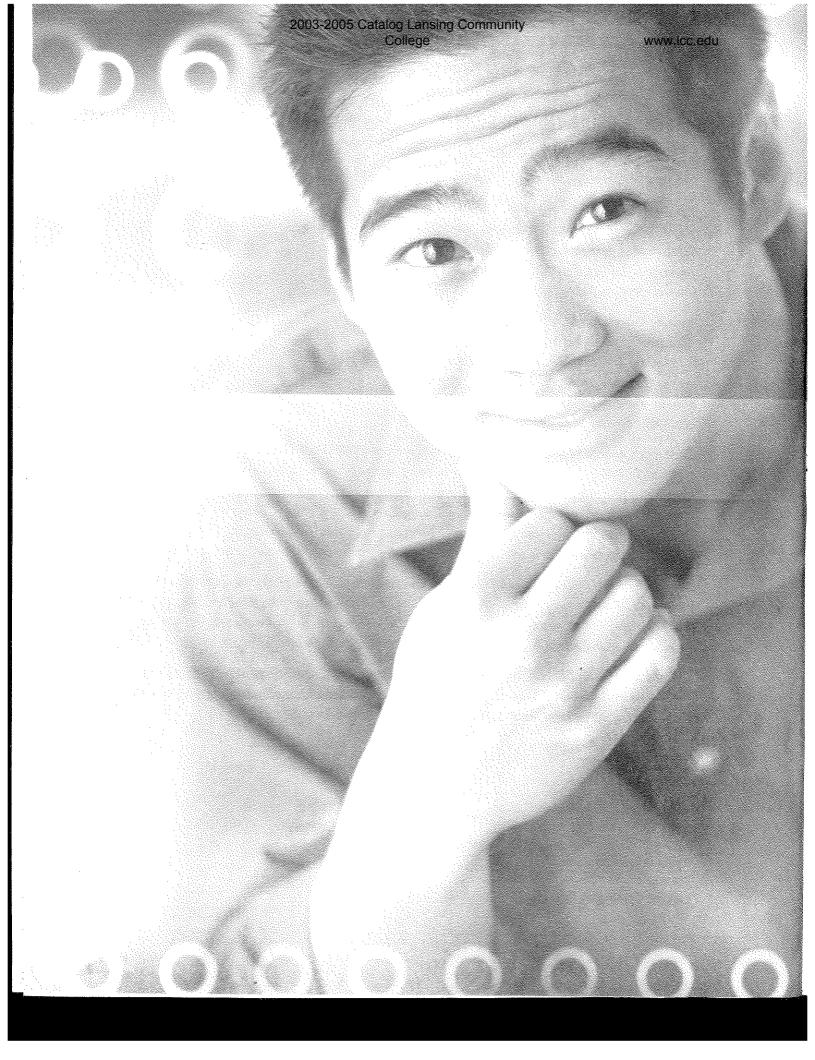
Each year, nearly 34,000 students enroll in more than 180 degree and certificate programs and nearly 1,700 different courses. Our main campus is located in the heart of downtown Lansing, a few blocks from the State Capitol. We also have more than 25 convenient learning centers all around mid-Michigan, including the Clinton County Center, the Livingston County Center and the Harry Hill Center for Academics and ^{*}Technology. LCC is a leader in on-line education. Each semester thousands of students enroll in our virtual classes.

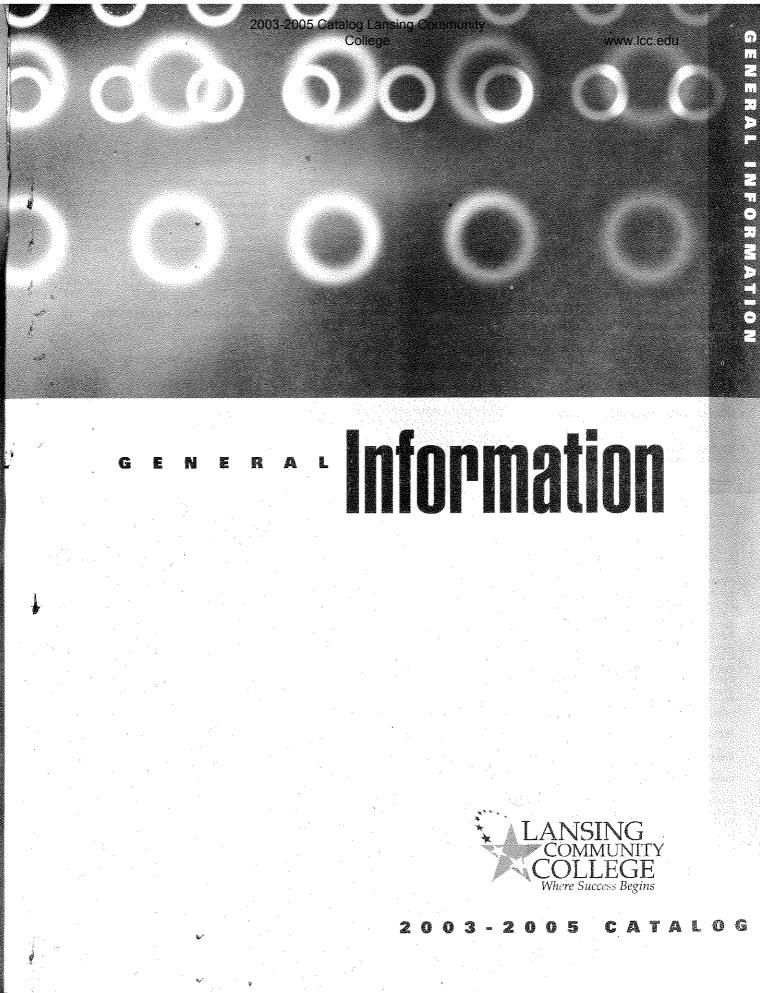
I encourage you to get involved in the college experience. Whether it is on a sports team, involved in a volunteer opportunity, or participating in a cultural program, learning takes place in a variety of settings at LCC. Many extracurricular activities are designed to provide hands-on experiences to prepare students for their chosen professions.

Student success and achievement are our focus at Lansing Community College. We offer a quality education that is convenient, affordable, accessible, and one that meets your needs. Join us at . . . Lansing Community College . . . where success begins.

Respectfully,

Paula D. Cunningham President Lansing Community College





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DIRECTORY OF DEPARTMENTS

Manufacturing & Land Planning Technologies Dept. (GVT 1586)

Business & Media Careers Division

Business Department (OC 210)	443-1400
Accounting	483. I 590
Greak Union	483-1434
Hospitality, inavet & Tourism	483-1542
insurance	183-1699
Legal Assistant	183-1403
ManagementAlabor Relations	480-1630
Markenng	183-1432
Real Estate	83-1532

Information Technology & Office

Systems Dept. (OC 137)
Computer Information Systems
Computer Software
Electronics and Computer Repair. ABS show
Office Administration/Secretarial
Visual Arts & Media
Department (AOF 208A)
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Motion Picture Production and
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Human, Health & Public Service Careers Division

Continuing Professional

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Health & Human	Service Careers		

Dept. (GVT 1750,
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Dental Hygiene (A&S 007) 483-1457
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cmergency Medical Technology
Kaeroniclogy Aging
Human Services/Social Work
Massage Therapy
Paramede,
Hadiologic lectrology
Surgical Technology 483-1410

Nursing Careers Dept. (GVE 1759) 1483-1410 Public Service Careers Dept. (OC 232) 483-1570

Criminal JusticerLaw Enforcement	A88-2570
Fire Science	
Police Academy	 .483-1964
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Technical Careers Division

Apprenticeship	Programs	(্র্যা	1380)	485-1181
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Construction & Maintenance Trank

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Architecture	1322
Building trades	10.865
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Heating & Air Cond-Bidg Maintenance	1464
Intenor Design	-9683

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	Civil Technology	
	Computer Aided Gratting & Design	
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Science (A&S 301)
Geological Science
Social Sciences (A&S 301)
Sociology: Anthropology
Public Safety (GVT 2800)
Student & Academic Support Division
Office of Instruction (SPS 211)
Advising and Counseling (GVT 2300) Advising Center 463-1904 Counseling 483-1904 Disability Support Services 483-1904 TDD 483-1207 Student Gevelopment Courses 483-1904 Women's Resource Center 483-1109
Assessment Center (GVT 2100)
Athletics (GVT 4700)
Career Services (GVT 2440)
Enrollment Services (GVT 2300) Admissions
Language Skills (A&S 253G)
Library Information Services (TLC 201)
Mathematical Skilts (A&S 309A)483-1073 Math Lab (A&S 309)
Media Services (TLC 123)
Mutticultural Center (GVT 2370)
Student Life (GV7 2473) 483-1285

ACADEMIC CALENDAR

Summer Semester 2003

Classes Begin	June 6
Independence Day	July 4
Last Class Day	August 1

Fall Semester 2003

Prep Days	August 18-20
Classes Begin	August 21
Labor Day	
Thanksgiving	November 27-28
Last Class Day	December 14

Spring Semester 2004

Prep Days	January 5-9
Classes Begin	January 10
MLK Holiday	January 19
Spring Break	March 8-14
Last Class Day	May 7

Summer Semester 2004

Classes Begin	June 7
Independence Day	July 5
Last Class Day	August 2

Fall Semester 2004

Prep Days	August 23-25
Classes Begin	August 26
Labor Day	September 6
Thanksgiving	November 25-26
Last Class Day	December 19

Spring Semester 2005

Prep Days	January 3–7
Classes Begin	January 8
MLK Holiday	
Spring Break	March 7-13
Last Class Day	May 6

POLICIES, PROCEDURES, AND REGULATIONS

ADMISSIONS INFORMATION

GENERAL ADMISSION CRITERIA

Lansing Community College is an open-door community college designed to extend service to applicants possessing appropriate preparation to benefit from programs and courses offered at the College. Determination and judgment of an individual's preparation and readiness to benefit from a course or program at Lansing Community College is the responsibility of the College's professional personnel.

Persons who are 18 years of age or older or who have graduated from high school are eligible to attend Lansing Community College. Persons who are under 18 years of age, enrolled in high school, and working to fulfill high school graduation requirements may be admitted to LCC under the *Dual Enrollment* or *Special Admission Program* explained later in this section. Nonpublic home school applicants who are 14 years of age or older may be admitted under the *Nonpublic Home School Program* explained later in this section. Admission to the College does not guarantee admission to a particular program or class.

GENERAL ADMISSION PROCEDURES

Procedures for Completing the Admissions Application

- 1. Complete all items requested on the application for admission.
- 2. International applicants must follow the procedures outlined under International Applicants.
- 3. Applicants in high school must follow the procedures outlined under Dual Enrollment Program or Special Admission Program.
- Nonpublic home school applicants must follow the procedures outlined under the Nonpublic Home School Program.
- Guest students must follow the procedures outlined under Guest and International Guest Applicants.

Applicants may mail, fax (517) 483-9668, or bring applications to the Enrollment Services office located in the Gannon Vocational-Technical Center, Suite 2200, Items should be mailed to::1121-Enrollment Services/Admissions, Lansing Community College, PO Box 40010, Lansing, MI 48901-7210, For additional information call (517) 483-1200. Applicants may also submit an online application via the internet at our web address http://www.lansing.cc.mi.us/lcc_application_form.htm.

Applicants who are admitted to LGC will receive notification and information regarding registration procedures. Applicants denied admission will receive a letter stating the reason for denial and explaining the appeal process (see Appeal Process for Denial of Admission).

ACADEMIC ASSESSMENT AND PLACEMENT TESTING FOR STUDENT SUCCESS

General Information

Lansing Community College cares about student success and believes that strong basic academic skills are the student's passport to achieving school and job success. The following basic skill areas are particularly important: reading, writing, mathematics, computing, communicating, critical thinking, and study skills.

Many courses at LCC have minimum skill level requirements in reading, writing, and/or mathematics. These levels must be met before a student will be permitted to enroll in those courses. Skill levels are listed along with other prerequisites required for each course in the *Lansing Community College Catalog*, the *Course Schedule*, and on the College's World Wide Web home page http://www.lcc.edu/. Students meet these skill prerequisites either by achieving the required scores on placement tests or successfully passing specific courses at LCC. (See *Other Options to Meet Skill Prerequisites* in this section for other alternatives.) Students who have attended LCC previously may need to take or retake one or more of the placement tests. An advisor or courselor can determine if this is needed. Student orientation is available at www.lcc.edu/orientation. or by calling 483-5323. New students should complete all assessment testing prior to completing orientation.

The department offering the course determines any exceptions to prerequisites or skill levels.

What the Tests Are Like

Reading, writing, and some mathematics tests are administered on computers. The tests are adaptive, and each item's difficulty is based on the student's response to the preceding question. The tests are not timed. The average amount of time spent on a test is about 30 minutes, so students should allow about two hours for all skill placement tests.

The results of the tests are available immediately.

Where Testing Centers Are Located

Drop-in placement testing is available on-campus in the Assessment Center in room 2100 Gannon Vocational-Technical Building. For testing hours and information call (517) 267-5500. Placement tests are also available at the off-campus Learning Centers. Contact the off-campus Learning Centers or the LCC Extension and Community Education Office, (517) 483-1860, for more information.

Other Options to Meet Skill Prerequisites

Students who have taken the SAT, the ACT, or Advanced Placement courses should have their scores sent to the LCC Enrollment Services/Admissions Office. The results may establish reading and/or writing and/or math levels, which may meet some course prerequisites. The Advanced Placement examination results may also result in the awarding of credit for a specific course(s).

Students who have earned credits from one or more accredited colleges or universities should have their official transcripts sent to the LCC Enrollment Services/Admissions Office. An evaluation of transfer credits will determine if some of the courses meet skill prerequisites.

Students who have an earned degree (associate, bachelor, or higher) can have the reading and writing prerequisites waived. An official transcript from all institutions previously attended should be sent to the LCC Enrollment Services/ Admissions Office.

Academic Advising for Student Success

All new students will receive an advisor or counselor contact upon admission to the College. Academic advisors and counselors are available to provide information on skill prerequisites, help students plan class schedules, discuss curriculum choices, and provide academic and personal support. Students are encouraged to meet with an advisor or counselor prior to their first semester and at least annually thereafter. As students progress in their program of study, advisors or counselors can identify courses that remain to be completed. Counseling and Advising has advisors and counselors in Room 2300 of the Gannon Vocational-Technical Center, (517) 483-1904.

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In addition to these regular advising sessions, students are encouraged to confer with the advisors or counselors about transferring to another college. Advisors and counselors have information on most Michigan colleges and universities.

Academic advisors and counselors are also available during special advising times in the off-campus Learning Centers. Contact the Learning Center or the LCC Extension and Community Education office, (517) 483-1860, for additional information.

SPECIAL PROGRAM/SPECIAL CIRCUMSTANCE ADMISSION

Selective Admission Programs

The programs listed in this section are selective admission programs. Admission to selective admission programs is on a competitive basis, and these programs have program admission requirements beyond those required for admission to the College. Admission to Lansing Community College does not guarantee admission to a selective admission program. Students wishing to apply for admission to a selective admission program should contact the Enrollment Services Office for further information by calling (517) 483-1254, (517) 483-1256, or by writing 1121-ENROLLMENT SERVICES/ADMISSIONS OFFICE, LANSING COMMU-NITY COLLEGE, PO BOX 40010, LANSING, MI 48901-7210.

- · Dental Hygienist Program, Associate in Applied Science
- · Diagnostic Medical Sonography, Associate In Applied Science
- Fire Academy, Certificate of Completion

- · Histologic Technician, Certificate of Completion
- Histologic Technology, Associate in Applied Science
- Mid-Michigan Police Academy, Certificate of Completion
- Music Commercial Performance, Associate in Applied Arts
- Music Management, Associate in Applied Arts
- Music Transfer, Associate in Applied Arts
- Nursing, LPN Option, Certificate of Achievement
- Nursing, RN Option, Associate in Applied Science
- Paramedic, Certificate of Achievement
- Radiologic Technology Program, Associate in Applied Science
- Sacred Music, Certificate of Achievement
- Stage Technology, Associate in Applied Science
- Surgical Technology, Certificate of Achievement, Associate in Applied Science
- Truck Driver Training, Certificate of Completion

International Applicants

International student admission procedures have been developed to create a positive experience for the international student, the service community, and the College community. Admissions requirements for international students are in compliance with the Student Exchange and Visitor Information System (SEVIS) as regulated by the U.S. Immigration and Naturalization Service (USINS). In accordance with USINS regulations, any individual who is not a United States citizen and who has been admitted to the United States in a temporary, nonresident status will be classified as an international student at Lansing Community College. Individuals who have refugee, immigrant, or resident alien status are not international students.

The visa classification of each international applicant determines the admission requirements and the attendance regulations applied to the applicant. For details on the requirements for international admission, the applicant should refer to the International Student Admissions Application Packet. To request the application packet, contact 1121-ENROLLMENT SERVICES/ADMISSIONS OFFICE, LANSING COMMUNITY COLLEGE, PO BOX 40010, LANSING, MI 48901-7210.

Admission to the College for all visa categories requires applicants to: (1) be at least 18 years old and (2) provide additional documents as required by the applicant's USINS visa classification.

International students who would like copies of documents submitted to Lansing Community College for admission purposes must request these copies no later than one year after the last semester of attendance in international student status with the College. Lansing Community College does not keep such documents beyond legally required time limits.

Admission to LCC as an international student will be considered after receipt of the application and all required documents. Applicants outside the United States are advised to apply as early as possible to allow for mail delays, to obtain visas and exit permits, and to make travel arrangements. The College must receive all admission material from applicants outside the United States no later than ten weeks prior to the first day of international student orientation for the semester of attendance.

The Enrollment Services/Admissions Office will provide to admitted applicants information regarding USINS regulations, academic advising, and College policies governing international students. Prior to registering for classes, international students will be asked to take tests administered to the general College population. If evaluation of these tests indicates a need for improvement of English language skills, the student will be required to enroll in appropriate language courses.

Admission procedures are established and reviewed by the International Student Services Committee. Any changes in the procedures will be brought to the attention of the Dean of Student and Academic Support, students, applicants, LCC staff, and the service community.

The International Student Services Committee has been established in the Division of Student and Academic Support with the following membership:

- 1. International Admissions Specialist (Chairperson)
- 2. Enrollment Services Administrator
- 3. Director of International Programs
- 4. Bilingual Coordinator
- 5. International Student Counselor
- 6. A member of the teaching faculty

Dual Enrollment Program

This program is designed to provide an opportunity for qualified high school juniors and seniors to earn college credit. High school credit may or may not be granted according to the discretion of the participating high school. Dual enrollment affords students educational enrichment in specific areas where unusual ability

and interest are displayed, especially in courses and academic areas not available in the students' high school.

Qualifications for the Dual Enrollment Program

- Applicants must:
- 1. Be working toward high school graduation requirements:
- Have attained junior or senior high school standing prior to applying for the program.

Application Procedures for the Dual Enrollment Program

- Applicants must:
- 1. Complete a College application;
- Submit written approval from their authorized high school official each semester of attendance;
- Mail or bring the application and letter of authorization to the LCC Encoliment Services/Admissions Office prior to enrolling in classes. Applicants may also submit an online application via the Internet at our web address http://www.lansing.cc.mi.us/lcc_application_form.htm
- Comply with basic skills assessment and any additional approvals or prerequisites established by the department for the course(s) in which the student wishes to enroll.
- (See Appeal Process for Denial of College Admission for appeal procedures.)

Special Admission Program

This program is designed to provide an opportunity for qualified high school freshmen and sophomores to earn college credit. High school credit may or may not be granted according to the discretion of the participating high school. The Special Admission Program atfords students educational enrichment in specific areas where unusual ability and interest are displayed, especially in courses and academic areas not available in the student's high school.

Qualifications for the Special Admission Program

- Applicants must:
- 1. Be working toward high school graduation requirements;-
- Have attained freshman or sophomore high school standing prior to applying for the program.
- Have attained 14 years of age by December 1 of the student's freshman year.

Application Procedures for the Special Admission Program Applicants must:

- Complete a Special Admission Supplemental Application for each crass in which the student intends to enroll;
- 2. Submit an official high school transcript each semester of altendance
- Obtain written consent from the student's parent/guardian and his/her authorized high school official each semester.
- Mail or bring the Special Admission Supplemental Application(s) and transcript to the LCC Enrollment Services/Admissions Office prior to enrolling in classes.
- Comply with basic skills assessment and any additional approvals or prerequisites established by the department for the course(s) in which the student wishes to enroll.

Special admission is contingent upon receiving departmental/divisional approval for each class for which the student intends to enroll.

(See Appeal Process for Denial of College Admission for appeal procedures.)

Nonpublic Home School Program

The Nonpublic Home School Program is designed for students who are at least 14 years old and attend a nonpublic home school. This program is provided to supplement the student's educational plan and to afford educational enrichment in courses and academic areas not available in the student's home school setting.

Qualifications for the Nonpublic Home School Program

Applicants must be at least 14 years of age prior to applying for the program

Application Procedures for the Nonpublic Home School Program

 Applicants 16 and 17 years of age must complete an LCC Nonpublic Home School Program Application each semister. Applicants 14 or 15 years of age must obtain department/division approval and complete an LCC Nonpublic Home School Program Application for each course in which the

student wishes to enroll each semester.

- Written consent from the student's parent/guardian and approval from the home school provider is required on the application.
- Applicants must meet with a Counselor to discuss the student's educational plan each semester.
- 4. All students must comply with basic skills assessment and any additional approvals or prerequisites established by the department for the course(s) in which the student wishes to enroll.
- 5. Applicants must mail or bring the completed application to the LCC Enrollment Services Office prior to enrolling in classes.

(See Appeal Process for Denial of College Admission for appeal procedures.)

Guest and International Guest Applicants

Guest and international guest applicants must:

- Obtain a guest application from the Registrar's Office of the student's primary college;
- 2. Submit a completed guest application form to LCC each semester they wish to continue in the guest admission category;
- 3. Mail or bring the guest application to the Enrollment Services/Admissions Office prior to enrolling in classes.
- Note: International guest students need permission from their designated school official.

(See Appeal Process for Denial of College Admission for appeal procedures.)

APPEAL PROCESS FOR DENIAL OF COLLEGE ADMISSION

Applicants who meet minimum requirements and are denied admission to the College may appeal the denial. The decision to admit or uphold denial of admission will be based upon the individual merits of the appeal. Appeals submitted with insufficient time to complete the appeal process (eight working days) by the first day of class will be reviewed for the following semester. The appeal process shall consist of the following steps:

STEP 1: Admissions Staff Member

If an Admissions staff member denies admission to an applicant, the Admissions staff member shall provide the applicant with a copy of the appeal process. If the applicant wishes to appeal the denial, the staff member shall arrange an appeal meeting with the Director of Admissions within two working days of the denial.

STEP 2: Director of Enrollment Services

(If the Director of Enrollment Services originally denied admission, the applicant may move directly to Step 3 of the appeal process.) The applicant must submit his or her appeal in writing to the Director of Enrollment Services at least one working day prior to the appeal meeting. A decision shall be communicated to the applicant within two working days of the appeal meeting and provide the applicant with a written copy of the decision. If the appeal is denied, the Director of Enrollment Services shall discuss Step 3 of the appeal process with the applicant. If the applicant wishes to appeal the denial, the Director of Enrollment Services shall assist the applicant in contacting the Appeals Coordinator.

STEP 3: The Board of Appeals

The Appeals Coordinator shall convene the Board of Appeals within three working days of the applicant's appeal to the Board and advise the applicant of the date, time, and location of the appeal meeting. The Board of Appeals Chairperson shall notify the applicant of the Board's decision within three working days from the date of the applicants appeal meeting and shall provide the applicant with a written copy of the decision. The Board of Appeals shall consist of the following members:

- A. The Director of Student Relations
- B. A member of the teaching faculty
- C. A counselor
- D. Appeals Coordinator or his or her designee (as recorder and nonvoting member)

The appeals process for international students shall have the following modification in membership:

 $\label{eq:STEP-1} \begin{array}{l} \text{STEP-1: International Admissions Specialist or his or her designee} \\ \text{STEP-2: Enrollment Services Administrator} \end{array}$

STEP 3: Board of Appeals

The International Student Board of Appeals shall consist of the following members:

- A. The Dean of Student and Academic Support (Chairperson) or his or her designee.
- B. A member of the teaching faculty
- C. Bilingual Coordinator or Director of International Programs
- D. Appeals Coordinator or his or her designee (as recorder and nonvoting member)

The decision of the Admissions Board of Appeals is final and will be reached by simple majority vote: A copy of the Board of Appeals decision shall be maintained in the Admissions Office for two years.

HOUSING

Lansing Community College maintains no housing units for students, nor does it enter into third party contracts or supervise off-campus housing. However, the Student Life Office does offer a housing resource listing service. This service provides current available listings of Lansing area housing for sharing, sale, or lease. For more information, contact the Student Life Office at (517) 483-1285, or visit Room 2473 in the Gannon Vocational-Technical Center. There is no fee for this service.

FINANCIAL AID INFORMATION

The Enrollment Services/Student Financial Aid Office at Lansing Community College is committed to providing students with financial resources for higher education. An objective method of need determination approved by the federal government is used to award need-based programs. However, some scholarships are available based on academic achievement or talent, and low interest loan programs are also available.

Students are eligible to apply for financial assistance if they have graduated from high school, have completed a GED, or have demonstrated, through testing, the ability to benefit from courses or programs at Lansing Community College. They must enroll in LCC programs of study leading to an approved educational credential and must be a U.S. citizen or eligible noncitizen. A student enrolling in a program of study abroad that is approved for credit by Lansing Community College is eligible for federal student financial aid consideration.

SOURCES OF FINANCIAL ASSISTANCE

Financial aid programs are funded from federal, state, college, and private sources. The four major sources of financial aid are scholarships, grants, loans, and employment. Most students receive a combination of these forms known as a financial aid "package." Need-based programs require the submission of the Free Application for Federal Student Aid (FAFSA). Please see "How and When to Apply."

Scholarships and Awards

Resources that do not have to be paid back, usually awarded for academic achievement or talent that may or may not be based on need.

- Board of Trustees Awards are awarded to outstanding district high school graduates. One recipient each year is selected by each in-district high school.
- Divisional Awards are awarded to outstanding students who are residents of the district and who apply directly to the College division or department in which the student wishes to study. Students may contact the Enrollment Services/Student Financial Ald Office for a Lansing Community College Scholarship application book.
- Athletic Scholarships are awarded through the Athletic Department. Talented athletes should contact coaches in their respective sport areas.
- Michigan Competitive Scholarships are based upon a qualifying ACT examination given during the junior and senior years in high school. Students may receive an "honorary" award not based on need or a monetary award based upon need.
- Private Scholarships are available through the College or private organizations. Please contact the Enrollment Services Office for a LCC Scholarship application book and information about private scholarships, grants, loans, employment, and college transfer scholarships evailable to LCC students.
- Foundation Scholarships are provided through the Lansing Community College Foundation Office.

- Michigan Merit Award Scholarships are based upon successful completion of all relevant sections of the Michigan Educational Assessment Program (MEAP test) for high school seniors.
- Additional information on these as well as a free scholarship search service are available at: http://www.lansing.cc.mi.us/sas/finaid/.

Grants

- Money that does not have to be paid back, usually based upon need.
- Federal Pell Grants are based on need and range from \$400 to \$4,000 (subject to change).
- Federal Supplemental Educational Opportunity Grants are awarded to high need students who receive Federal Pell Grants.
- Michigan Educational Opportunity Grants are awarded to needy students who have been Michigan residents for at least 12 consecutive months.
- Michigan Aduit Part-time Grants are awarded to self-supporting, part-time (3-11 credits), needy students who have been out of a high school program for at least two years and who have been Michigan residents for at least 12 consecutive months.
- Michigan Tuition Incentive Program (TIP) pays in-district community college tuition and fees for students from low-income families who meet the basic criteria and low-income financial guidelines. Eligible students must be United States Citizens and residents of Michigan according to institutional criteria, must be under 20 years of age, and must apply for certification to the State of Michigan prior to graduation from high school or completing the General Education Development (GED) Certificate.
- Lansing Community College grants are awarded to needy students who do not qualify for Federal Pell Grants on a funding available basis.
- Lansing Community College's Women's Resource Center Grants are available for tuition and child care for displaced homemakers and special populations. Students apply through the Women's Resource Center, Counseling and Advising Center, Gannon Vocational-Technical Center, Suite 2300, (517) 483-1207 or (517) 483-1904.
- Center for Aging Education Tuition Assistance is available to persons 60 years of age or older for up to four (4) credits per semester. Students must meet moderate income guidelines. Students apply through the Enrollment Services Department at (517) 483-1200.

Loans

Money that must be repaid beginning six months after graduation or enrollment of less than half-time (six credits for Fall and Spring semesters, three credits for Summer semesters), with the exception of the PLUS loans which must begin repayment sixty (60) days after the final disbursement.

- William D. Ford Federal Direct Student Loan Program includes both Subsidized and Unsubsidized Student Loans and the Parent Loan for Undergraduate Students (PLUS). Specific guidelines pertaining to eligibility and the application process are available in the Enrolment Services/Student Financial Aid Office.
- Subsidized and Unsubsidized William D. Ford Direct Student Loans are available for students who meet eligibility requirements. Students apply by completing and submitting a Free Application for Federal Student Aid (FAFSA), an LCC Admissions Application, and an LCC application for William D. Ford Direct Subsidized and Unsubsidized Student Loans.
- 2. Parent Loans for Undergraduate Students (PLUS) are available to parents of undergraduate dependent students to pay college costs not covered by other financial aid. Applications for William D. Ford Direct PLUS loans are available in the Enrollment Services/Student Financial Aid Office. This is a credit-based loan.
- MI-LOAN is a Middle Income Loan provided by the State of Michigan. This
 is a credit-based loan.
- Short-Term Loans are available from Lansing Community College on a limited basis through the Enrollment Services/Student Financial Aid Office.

Student Employment

Job opportunities are available to assist students in earning money to meet part of their educational expenses. Employment at the College is based upon skills and abilities and not necessarily upon need. Students may be employed by the College, public nonprofit-organizations, private businesses and industry.

- · Federal Work Study is awarded to needy students.
- Michigan Work Study is awarded to needy students who are Michigan residents.

- Career and Employment Services at LCC posts federal work study jobs, student employee jobs, and off-campus part- and full-time jobs. Students obtain information at the Career and Employment Services Office and must interview at the department or employer's office.
- Community Service Learning off-campus employment opportunities are available to students who ara awarded Federal Work Study. Inquiries regarding these employment opportunities should be made to the Career and Employment Services Department.

Special Situation Funds

The College's Enrollment Services/Student Financial Aid Office has information regarding the availability of funds and application procedures for the following programs:

- Armed Services
- Veterans' Benefits
- · Children of Disabled or Deceased Veterans
- Federal Bureau of Indian Affairs
- Michigan Indian Tuition Waiver
- Michigan Rehabilitation Services
- · Clubs, Organizations, and Business Scholarships
- · Private Donor Scholarships

HOW AND WHEN TO APPLY

Students wishing to receive financial aid at Lansing Community College should submit a Free Application for Federal Student Aid (FAFSA) no later than February 15 for priority State aid consideration and at least three months prior to enrollment for all other aid programs. Federal income tax information is necessary to complete the form. FAFSA forms are available at LCC or from high school counselors. There are two options available for submission:

- The completed FAFSA form may be submitted via the Internet (FAFSA on the WEB). The URL is http://www.fafsa.ed.gov. All necessary instructions are provided. Please note all signature requirements. The STARLAB, located in the Enrollment Services Office, is available for students to enter the application. Staff is available to assist students with filling the application. The Student Aid Report (SAR) results are then mailed to the student. Processing time is approximately 14 to 21 working days after the student enters the application. Call (517) 483-1200 to schedule an appointment.
- 2. The completed FAFSA form may be mailed in the enclosed envelope to the federal processor. In four to six weeks the processor will send a Student Aid Report (SAR) to the student. The Financial Aid Office at LCC must receive these results to award aid. LCC must be listed as a college choice on the FAFSA in order for LCC to receive the information electronically. The Title IV code to list LCC as a college of choice is 002278.

Students will receive an Award Letter no later than fourteen days alter their results are received and their financial aid file is completed. Application for Financial Aid must be completed each academic year that a student plans to attend college.

To apply for financial assistance at the College, new students must also complete the LCC Application for Admission and return it to: 1121 ADMISSIONS, LANSING COMMUNITY COLLEGE, PO BOX 40010, LANSING, MI, 48901-7210. All students must complete the Free Application for Federal Student Aid (FAFSA) and submit the application to the federal processor prior to being awarded.

William D. Ford Federal Direct Student Loans (Subsidized, Unsubsidized, and PLUS) are available by completing the aforementioned forms and the loan application form. Loan applications are available in the Enrollment Services/Student Financial Aid Office.

LCC Board of Trustees Scholarship forms are available through district high schools' counseling offices. Scholarship forms are also available at the LCC Enrollment Services Office.

Divisional Scholarships are available from the respective College division or department of the student's major area of study.

The LCC Foundation has scholarships available throughout the year. Please consult the Enrollment Services/Student Financial Aid Office or call the LCC Foundation Office at (517) 483-1985 for additional information.

Processing of the student's application for financial assistance will be completed, and the student will be notified when the student has submitted the LCC Application for Admission to the Enrollment Services Office and the results of the federal application for student financial assistance have been received. Students transferring from other colleges mid-year must submit a Financial Aid Transcript from their previous colleges when they apply for financial assistance, along with any additional documents requested by the Enrollment Services/Student Financial Aid Office.

The amount of the student's award will be based on a standardized cost of attending LCC, less the expected student's and family's contribution. The College will attempt to meet a student's need based upon available funds. All financial assistance applications are confidential.

RIGHTS AND RESPONSIBILITIES OF STUDENTS RECEIVING FINANCIAL AID

As a recipient of financial aid, a student enters into an agreement with Lansing Community College which affects the receipt and continuation of assistance. Therefore, students should be sure to read this information carefully.

NEED AND FINANCIAL AID PACKAGE

Financial need is determined by subtracting the expected family contribution (as determined by the FAFSA) and other financial resources from the appropriate College budget. The College will attempt to meet the student's need within the limitations of available resources. Also, if any errors are made by the College in determining eligibility for assistance or awarding of aid, they will be corrected. Should any major changes occur in the student's financial circumstances or should other aid be provided to the student, the student will report these changes to the Enrollment Services/Student Financial Ald Office.

EXPECTED FAMILY CONTRIBUTION

If a student is a dependent student (as determined by the FAFSA), the College and the federal government assume that parents and students have the primary obligation to provide for the student's cost of education to the extent that they are able, based on a standardized method of determining parental contribution. The second obligation talls upon the student to contribute to his or her own education from personal assets and earnings which may include the use of student loan funding.

If a student is a self-supporting or independent student (as determined by the FAFSA), the College assumes that since a student is the prime beneficiary of education, the student has a primary obligation to provide for the cost of education to the extent the student is able, based on a standardized method of determining student contribution. The student's expected contribution will come from personal earnings, spouse's earnings. If applicable, savings and assets which may include the use of student loan funding.

SELECTION CRITERIA

Students are awarded need-based financial aid on a first-come first-served basis. Students with the highest need are selected first until available funds are exhausted. Students with bachelor's degrees may receive Federal Work Study if lands permit. These students may also apply for Federal Direct Student Loans.

FALSIFICATION OF INFORMATION

Ealsification of information submitted by the student or parents for the purpose of receiving financial assistance may result in cancellation of assistance, billing back for assistance received, and referral to the appropriate federal authorities, if you purposely give false or misleading information, you may be fined \$10,000, sent to prison, or both by the tederal government.

The Enrollment Services/Student Financial Aid Office may be required to verity information provided on the FAFSA form by requiring income tax statements or other documentation of financial status.

CREDIT HOUR LOAD

Fall and Spring Semester

Financial aid is offered to students based on enrollment as a full-time student, 12 credit hours or more per semester. However, if a student enrolls for fewer than 12 credits, his or her award may be prorated to meet enrollment costs. For example, if a student enrolls for 9–11 credits, he or she would receive 75 percent of his or her award. If a student enrolls for 6–8 credits, he or she would receive 50 percent of his or her award. If a student enrolls for fewer than six credit hours, he or she may be eligible for some federal programs. An independent student enrolled for 3–11 credits may be eligible for the Michigan Adult Part-time Grant.

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Summer Session

Summer Session is shorter than Fall and Spring Semesters. Six credits are considered full-time for financial aid purposes, five credits are considered threequarter time, and three credits are considered half-time. Enrollment for fewer than three credits will make a student ineligible for most financial aid. The length of the summer session also makes a difference in the calculation for the maximum financial aid allowable for that period. Generally, the amount of financial aid will be less for a student enrolled in the summer session compared to the regular fall and spring semesters.

SHORT COURSE ELIGIBILITY

Payment for courses that are less than a semester in length is permitted. Students who enroll in a short course, receive payment for the course, and then do not attend will be required to repay any financial assistance attributed to that course. In addition, students who receive payment for a short course that is subsequently canceled will be required to repay any financial assistance attributed to that course.

STUDENT BUDGETING OF THE FINANCIAL AID PACKAGE

The student is responsible for properly budgeting all financial aid offered for each semester. The financial aid package will be distributed to the student in the following manner:

- ALL student financial aid will be applied toward tuition and fees during registration. If sufficient funds are available after tuition and fees are paid in full,
- the student will receive a financial assistance advance check during the first full week of classes for part of the balance of grants, loans, or scholarships; and
- 2. The student will receive any remaining balance of grants, loans, or scholarships approximately 14 days after the first day of the semester.

The student must be prepared to meet his or her living expenses during the period prior to check distribution.

FINANCIAL AID REFUNDS

Check Distribution

Checks are issued two times each semester. They will be mailed if financial aid awards exceed the amount of tuition and fee charges. Students use this money for books, supplies, transportation, and room and board. Book advance checks are printed during the first week of the semester. Book advance checks are automatically calculated for financial aid students if their awards are complete and if they are registered by the last day of on-campus registration. The book advance check, will be calculated by subtracting the amount of tuition and fees owed for the semester from the adjusted amount based on credit enrollment and writing a check for a portion of the remainder.

Final checks are printed for delivery by the 14th day of the semester. Students who receive an advance check normally receive a final check.

COLLEGE WORK STUDY/STUDENT EMPLOYMENT

If a student has been offered Federal Work Study or plans to use campus employment to meet expenses, the student must first secure employment through the Career and Employment Services Office (Room 211, Gannon Vocational-Technical Center). Students will receive a paycheck every two weeks based upon hours worked.

FINANCIAL AID TUITION REFUNDS/WITHDRAWALS

Tuition refunds for financial aid students are based on federal regulations. In addition, federal refunds are calculated for students who completely withdraw through the 60 percent period of the semester. Effective Fall semester 2000, federal refunds are calculated by calendar days and the student will owe a portion of unearned Title IV funds. Tuition refunds and federal refunds are returned in the following order for any programs received that semester:

- a. Unsubsidized FFEL loans
- b. Subsidized FFEL loans
- c. Unsubsidized (other than parent loans) Federal Direct loans
- d. Subsidized Federal Direct loans
- e. Føderal Perkins loans

f. FFEL PLUS loans

g. Federal Direct PLUS loans

If excess funds remain after repaying all outstanding loan amounts, then the remaining amount is credited to grant programs in the following order:

- h. Federal Pell Grants
- i. Federal SEOG
- j. Other Title IV assistance for which a return of funds is required
- k. State financial aid awards
- I. Institutional financial aid awards
- m. Private or public donor awards
- n. Other institutional awards
- o. Student

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The College will hold an administrative fee of the lesser of five percent of the refund or \$100.

REPAYMENT OF GRANTS

If a student withdraws from Lansing Community College or is withdrawn by the College because of nonattendance, a portion of any grants paid to the student may have to be repaid, and grades received for these courses may affect continuation of eid. Failure to repay could result in your account being referred to a collection agency and credit bureau.

SATISFACTORY ACADEMIC PROGRESS POLICY FOR FINANCIAL AID ELIGIBILITY

To receive or continue on financial assistance, students must maintain satisfactory academic progress (SAP) each semester. Satisfactory academic progress for students receiving financial assistance is defined as follows:

- 1. Students must maintain a grade point average (GPA) of a 2.0 or above on a semester and cumulative basis.
- 2. Students must earn 70 percent or more of all credits attempted on a semester and cumulative basis. Credit "earned" is defined as a grade of 1.0 or higher or P; Grades of W, I, Z, N and 0.0 are considered attempted and not earned for determining financial aid satisfactory academic progress. Credit attempted includes all repeated courses.
- Students must complete all requirements for their educational program within 150 percent of the minimum number of credit hours required for their educational program. This limit is further explained below under the heading *Maximum Eligibility*.

Satisfactory Academic Progress for Federal or State Loan Programs

Students applying for a federal or state loan program—including the Federal William D. Ford Direct Student Loan and the Michigan MI-Loan—must have completed at least one semester of prerequisites or core courses with a 2.0 or higher GPA and at least 70 percent completion of attempted credits prior to applying for a loan. A student borrower must earn a minimum of six credits, maintain a 2.0 minimum GPA each semester of the loan period, and maintain at least 70 percent completion of cumulative credits attempted. Students who do not meet these minimum guidelines will have any remaining scheduled loan disbursements canceled.

Financial Aid Academic Probation

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Federal regulations state that an Academic Progress Policy must include a review of all periods of enrollment whether or not aid was received. Students who fail to maintain satisfactory academic progress in accordance with GPA or completion percent may be allowed to re-enroll on financial aid under a Success Contract (educational agreement). While on a Success Contract, a student will be considered to be making satisfactory academic progress for financial aid programs, excluding loans, as long as the student abides by the terms of the educational agreement or until the student has raised his or her cumulative grade point average to a 2.0 or greater and has completed at least 70 percent of all credit hours attempted.

Students who do not successfully complete the semester of their Success Contract will have their future semesters of financial aid canceled subject to the appeals process described below.

Students with cumulative GPAs lower than 2.0 and/or students who have earned less than 70 percent of credit hours attempted and previously been on a Success Contract will have their financial aid eligibility canceled. Eligibility for financial aid may be automatically reinstated after a student completes sufficient credit hours to raise his or her cumulative GPA to a 2.0 or above and cumulative credit completion to 70 percent or higher financed with his or her own resources. This is subject to all maximum eligibility requirements.

Appeal of Unsatisfactory Academic Progress

A student failing to maintain satisfactory academic progress who is placed on probation or terminated from financial aid may appeal this action. All appeals must be submitted in writing to the Enrollment Services/Student Financial Aid Office and should document circumstances beyond the student's control. Extenuating circumstances that may be considered include personal illness or accident, serious illness or death within immediate family, long-term absence from school, or other circumstances beyond the reasonable control of the student. A letter from a physician, attorney, social services agency, licensed therapist or counselor, or clergy or an obituary notice or divorce decree must document the condition or situation. The condition or situation must have existed or occurred during a period the student was enrolled at Lansing Community College and must no longer exist.

Reinstatement of Financial Aid Eligibility

A designated financial aid advisor, in consultation with at least one other financial aid advisor or administrator, will review the appeal and supporting documentation and notify the student in writing of the decision. Results of an appeal may include denial of reinstatement, reinstatement with restrictions such as limiting credit load to part-time or requiring 100 percent completion of enrolled credits, up to full reinstatement without further probation if the student has regained satisfactory academic progress.

Maximum Eligibility

Students who have attempted 150 percent of the credit hours required for their program of study at Lansing Community College are not considered to be making satisfactory academic progress and are no longer eligible for financial assistance beyond this maximum time frame. Transfer students will not be awarded financial aid beyond 150 percent of the credit hours required for their program of study, including credits transferred into the College which meet program requirements.

Exceptions to Maximum Eligibility time frame: Since many programs of study require substantially more than the minimum number of credit hours for a general associate degree, financial aid applicants will be reviewed on an individual basis if and when they approach 150 percent of their program. including any transfer credits. Students who have had to complete prerequisite, developmental, or English as a second language (ESL) course work as part of their regular academic program requirements may be eligible to have some of these credits excluded in the measurement of the 150 percent maximum time frame.

Students requesting financial aid consideration for semester(s) beyond 150 percent of their program will be required to document in an academic completion plan (ACP), approved by a lead academic advisor, reason(s) why they need additional credits to complete their program of study.

APPEALS

It is the student's right to appeal in writing or in person any decisions made regarding the assistance application or package. The student may meet with a financial assistance advisor to discuss his or her package. The student may meet with a financial assistance advisor to discuss extenuating circumstances to above policies or any other policies affecting the student as an assistance recipient. Extenuating circumstances are those considered beyond the student's control and must be documented. A financial assistance review committee will meet periodically to consider written appeals.

RIGHTS TO INFORMATION

It is the student's right to obtain information pertaining to financial aid programs available through the College and to discuss with a financial aid advisor information pertinent to the student's assistance application, file folder (records), and assistance package. However, all student information is confidential and will not be released over the telephone or to anyone other than the student.

RENEWAL OF FINANCIAL ASSISTANCE

Financial assistance is not automatically renewed. Awards are granted for one

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academic year only. A student must reapply for assistance for the following year by completing all required application forms by stated deadlines on the application. For renewal, a student must be enrolled in a certificate or degree program.

To continue on financial assistance, the student must not be in default on any past educational loans at LCC or other colleges. Also, the student must not owe any repayments for educational grants due to withdrawing from college or being withdrawn from college because of nonattendance.

A student will not be awarded federal financial assistance at Lansing Community College beyond the maximum time frame of 150 percent of the credit hours required for his or her program of study. A transfer student will not be awarded tederal financial assistance beyond the maximum time frame of 150 percent of the credit hours required for his or her program of study, including transfer credits accepted by LCC.

VETERANS INFORMATION

Enrollment Services/Veteran Services Office helps veterans/dependents file applications for educational benefits, counseling, loans, tutorial assistance, and/or any other entitlements allowed through the Veterans Administration. Lansing Community College is approved as a school for veterans of military service under provisions of Chapters 30, 31, 32, 35, and 1606 of the U.S. Code.

Lansing Community College cautions veterans matriculating under this program to be prepared to pay their expenses for at least two months after the beginning of the academic year. ALL TUITION AND FEES MUST BE PAID AT THE TIME OF REGISTRATION. Once the veteran's application is approved and the award processed, monthly checks will be issued if the veteran is prompt in maintaining satisfactory academic progress and following a chosen curriculum.

New student veterans and veterans wishing advance payment should apply at the Enrollment Services/Veteran Services Office at least five (5) weeks prior to the beginning of a semester. Monetary allowances provided for by the G.I. Bill vary according to the level at which the veteran is pursuing an academic program as indicated by the following schedule:

LEVEL OF ATTENDANCE	REQUIRED CREDIT HOURS
Full time	Minimum of 12
Three-quarter time	9, 10, or 11
Half time	6, 7, ar 8
One-quarter time	5 or less credits — Tuition and fees
and the second	reimbursement only

After enrollment, veterans should direct their inquiries concerning eligibility to the Enrollment Services/Veteran Services Office in the Student and Academic Support Division.

Lansing Community College, in recognition of the special needs of active-duty service persons in having access to and completing programs, has been designated as a Servicemember's Opportunity College.

In addition, the College participates in the Army College Fund, Michigan National Guard Co. op. Air Force ROTC Program, Army ROTC Program, and USMC Open Admissions Program.

Satisfactory Progress for Veterans' Benefits Eligibility

In compliance with Veterans Administration statutory requirements of subparagraph 56, section 1775 of chapter 36, Title 38 U.S. Code, Lansing Community College student veterans benefits recipients will not be certified as eligible for benefits when their academic progress (cumulative grade point average) places them in the academic warning range (probation) beyond two semesters of enrollment. Re-certification of eligibility for benefits will not be considered unless the veteran submits a Success Contract or until after the semester in which the student regains academic good standing (see *Satisfactory Academic Progress Policy*). Veterans must submit signed documentation that they have met with a Counselor by midterm as agreed to on the Success Contract.

Certification Policy for Veterans Administration Educational Benefit Recipients

Lansing Community College will notify the U.S. Department of Veterans Affairs if a student receiving veteran's educational benefits is awarded a grade of 0.0, "i", "W" or "Z" for course work pursued. It is the recipient's responsibility to notify the Enrollment Services/Veteran Services Office of all enrollment changes (drops) including the non-attendance of any or all courses. In the event that a recipient fails to report these changes, the College will report the first day of the certified attendance period as the last date of attendance (in absence of other documentation). Recipients appealing this determination may provide documentation such as a statement signed by the instructor verifying course attendance. Veterans' educa-

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tional benefit recipients neglecting to request an official evaluation for credits earned at colleges other than Lansing Community College and for active duty military service will not have their enrollment certified beyond their second semester of attendance.

REGISTRATION INFORMATION

REGISTRATION PROCEDURES

Each semester Lansing Community College publishes the Course Schedule which identifies courses offered for that semester. This booklet includes general information on the dates, times, and location of registration. Students may register for classes according to instructions which are published in the booklet.

Some courses require basic skills proficiency levels which must be met prior to enrollment. Students are strongly encouraged to arrange for orientation, testing, and advising prior to registration.

ONLINE LEARNING

The Online Learning option allows students to earn any one of ten (10) associate degrees utilizing the power and connectivity of the Internet. These programs present a new learning option for students. Independent, highly motivated learners, including those who face time and place constraints, will find this option especially attractive. Students enrolled in LCC's Online Learning program will be guided by a dedicated staff of instructors whose courses have been specifically designed to deliver all the benefits of traditional learning along with technology enhancements that may not otherwise be available. There is a \$10.00 course lee applied to all Online Learning sections beginning Summer 2001. See the current *Course Schedule* or visit the Electronic Campus/Online Learning at: http://www.lcc.edu/ online/for more information about programs and registration.

TUITION AND FEES

Residency

I. Eligibility for Paying Resident Tuition

- A. A student must be an American citizen, refugee, immigrant, or permanent resident and meet one of the following qualifications before being eligible to pay resident tuition.
 - 1. The following applies to students under 18 years of age:
 - a. The student's parents or legal guardians have resided within the LCC district for at least six months immediately prior to the first day of the semester.
 - b. The student is married and has resided within the LCC district at least six months immediately prior to the first day of the semester.
 - c. The student is unmarried and is recognized as "emancipated" (receives no financial support from parent or legal guardian) and has resided within the LCC district for at least six months immediately prior to the first day of the semester.
 - d. The student is enrolled under the provisions of Act 245, Public Acts of 1935, as amended by Act 371, Public Acts of 1965 (students receiving benefits under the Michigan Veterans' Trust Fund).
 - o. The student is an employee of a business or industrial firm within the LCC district, and the employer agrees in writing to pay directly to the College all tuition and fees of the sponsored student for employer-approved classes.
 - 2. The following applies to students 18 years of age or older:
 - a. The student has resided within the LCC district at least six months immediately prior to the first day of the semester.
 - b. The student is an employee of a business or industrial firm within the LCC district, and the employer agrees to pay directly to the College all tuition and fees of the sponsored student for employer-approved classes.
 - c. The student is enrolled under the provisions of Act 245, Public Acts of 1935, as amended by Act 371, Public Acts of 1965 (students receiving benefits under the Michigan Veterans' Trust Fund).

II. Proof of Residency

All students must provide proof of residency at the time of admission and registration (Michigan House Bill No. 4166, 1985). Lansing Community College reserves the right to make the final decision on residency eligibility. New students must verify residency at the time of admission. Current students whose mail is returned to the College are required to provide proof of residency in person prior to future enrollments

Residency is based on where a student has resided for the six months immediately prior to the first day of the semester of enrollment. Any one of the following documents is acceptable as proof of residency, providing that the six months prior to the first day of the semester for which residency is being sought is covered.

- A. Current Michigan driver's license or State identification card issued not less than six months prior to the first day of the semester in which residency is being sought
- B. Paid property tax receipts for the current year
- C. Current rental or lease agreement indicating six months residency immediately prior to the first day of the semester in which residency is sought. The student's name and signature must be on the lease agreement.
- D. Utility bills with the student's name and address for each of the six months prior to the first day of the semester

III. Residency Classification

- A. Resident Students* Students who provide proof of residency within the LCC district for the six months immediately prior to the first day of the semester of enrollment are charged resident tuition.
- B. Nonresident Students* --- Students who provide proof of residency within the State of Michigan, but outside the LCC district for the six months immediately prior to the first day of the semester of enrollment are charged nonresident fuition.
- C. Out-of-State* -- Students who provide proof of residency in a state other than Michigan for the six months immediately prior to the first day of the semester of enrollment are charged out-of-state tuition.
- D. International Students Students who have been admitted to the United States in a temporary, nonresident status are charged international tuition. Individuals who have refugee, immigrant, or resident alien status are not international students.
- E. Foreign nationals who are enrolling in Virtual College courses and reside outside the United States or are admitted to the United States in a temporary, nonresident status will be charged international tuition. U.S. Nationals who are enrolling in Virtual College courses and are outside the United States will be charged domestic tuition.

*International Students are not eligible for the resident, nonresident, or out-ofstate residency classifications.

IV. Residency Status for Military Personnel and Dependents

Residency is based on the location of the present domicile of the applicant with the six-month requirement waived if the applicant can provide any of the documents listed below. This waiver is extended to the dependents (spouse and children) of the person named on the Department of Defense 214 or 899 who reside at the same address.

- A. Department of Defense 214, Separation from Active Duty Form, showing separation date within 120 days from the first day of the semester;
- B: Department of Defense 899, Change of Station Form, showing the Lansing area as the duty station:
- C. Department of Defense 899, Change of Station Form, showing a change of duty station for the head-of-household to an overseas destination or as the result of an emergency mobilization.

V. Petitioning for a Change in Residency Status

- A. If the student feels that his or her residency status is not correct, the student may furnish the required proof of residency and the residency status
- will be corrected. B. After acceptance into the College as a nonresident or out-of-state resident,
- a student who has resided in the College district for six (6) months and furnishes the required proof of residency can have his or her residency status changed.
- C. If a change of residency status is approved by the published deadline date and the student is eligible for a refund, the difference between the previous residency status and the new residency status shall be refunded.
- D. Adjustments in tuition due to a change in residency are not retroactive to previous semesters.

VI. Nonresident Owners of In-District Property

Nonresident students or their guardians owning property in the LCC district will receive credit once a year for property taxes paid in support of the College by himself or herself or his or her guardian. The taxes paid must be in support of the current academic year and the credit cannot exceed the differential between resident and nonresident tuition rates for the current academic year. To obtain this credit, the student must provide Enrollment Services with the paid property tax receipt.

Payment of Tuition and Fees*

All students attending Lansing Community College must pay tuition and fees at the time of registration or by the published payment deadline. Failure to pay could result in your account being referred to a collection agency and credit bureau. Current tuition and lees are as follows:

TUITION PER CREDIT HOUR*

Resident Students	\$ 54.00
Nonresident Students	\$ 86.00
Out-of-State Students	\$118.00
International Students	\$118.00

Tuition for apprenticeship students varies according to the program of study.

FEES FOR ALL STUDENTS*

Registration Fee (all students,	21
each semester, not refundable)	\$20.00
Activities Fee (each semester)	
0-6 credit hours	\$ 1.50
6.01-11 credit hours	\$ 4.50
11.01 or more credit hours	

A fee will be charged for dishonored check or credit card transactions. Course fees vary and are published in the Course Schedule booklet each semester. *TUITION AND FEES ARE SUBJECT TO CHANGE THROUGH THE ACTION OF THE BOARD OF TRUSTEES.

Refund Policy for Semester-Length Courses

Fall and Spring Semesters and Summer Session

Withdrawal during first week of semester	and fees
Withdrawal during second week of semester	uition only
Withdrawal after second week of semester	No refund

Students receiving financial aid will receive refunds only if repayment to financial aid sources is not required.

Refunds are not retroactive to previous semesters. Questions relating to refunds should be addressed to the Cash Operation Office.

VARIABLE DATE COURSES

It is the student's responsibility to process all drops by the established deadline dates. To withdraw from class, the student must fill out a Drop Form in the Enrollment Services/Registrar's Office or through the department offering the course. Refunds are automatically issued for courses canceled by the College. The application and registration fees are nonrefundable.

UP	O AND INCLUDING THREE-DAY COURSES
100% Refund*	Prior to start of course
Drop with no cours	e shownPrior to start of course
	Students with a valid reason for exception
1. Sec. 1.	to this policy may fax, mail, or present their
1	support documentation to Enrollment Ser-
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	vices or the department offering the course.
Change credit/audi	t statusPrior to end of course meeting
1	
K FOUR-DAY - LESS THAN EIGHT-WEEK COURSES	

100% Refund*Prior to start of course

Drop with no course shownPrior to start of course

Students with a valid reason for exception to this policy may fax, mail, or present their support documentation to Enrollment Services or the department offering the course.

Change credit/audit statusThrough midpoint of course (using calen-

dar date-beginning through ending dates of course)

EIGHT-WEEK --- LESS THAN 12-WEEK COURSES

100% Refund*During the first week of the course
50% Refund (of tuition only)During the second week of the course
Drop with no course shownDuring the third week of the course
Change credil/audit statusPrior to the end of the fourth week of the
course

12-WEEK -- LESS THAN 16-WEEK COURSES

100% Refund*During the first week of the course	
50% Refund (of tuition only)During the second week of the course	
Drop with no course shownDuring the fifth week of the course	
Change credit/audit statusPrior to the end of the sixth week of the	
course	

OPEN ENTRY COURSES

100% Refund*	Day before the semester begins	
50% Refund	Not applicable	
Drop with no course shown	Day before the semester begins	
Change credit/audit status	Day before the semester begins	

*The 100% refund period for courses offered by BCI is seven (7) working days (or more) before the first day of class. The refund amount for classes dropped from two (2) to six (6) working days before the class begins is 70%. For classes dropped one (1) working day before the first day of class or later, there is no refund.

STUDENT CREDIT REQUIREMENTS

Student credit requirements are as follows:

FALL AND SPRING SEMESTERS	
Full-time enrollment	12 credits
Three-quarters enrollment	9 credits
One-half enrollment	6 credits

SUMMER SESSION (8 WEEKS)		
Full-time enrollment	credits	
Three-quarters enrollment5	credits	
One-half enrollment	credits	

CANCELED CLASSES

The College reserves the right to cancel classes which do not have sufficient enrollment. Students enrolled in classes that are canceled will have the opportunity to add another class or receive a refund.

SCHEDULE CHANGES

During the schedule change period, and in accordance with procedures specified in the Course Schedule, a student may make changes in his or her schedule. A student may withdraw from a course before the end of the sixth week of the semester without academic penalty. Drops will not be processed after the last day of the semester.

Schedule changes involve the following procedures which must be completely carried out by the student so that the student's records in the Enrollment Services/Registrar's Office may be accurately maintained:

- 1. Pick up a Drop-Add Form during the registration process or at the Enrollment Services/Registrar's Office.
- 2. Fill out the form completely with information requested
- 3. Return the form to the registration assistant or to the Enrollment Services/ Registrar's Office for proper recording. Do not leave until processing of the form has been completed and a copy has been received.

Departmental signatures and grade at time of drop are required on all drop forms after the sixth week of the semester or other equivalent dates as specified for variable length courses.

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AUDITING COURSES

A student who registers as an auditor attends class regularly but does not take the final examination, does not receive an achievement grade, and does not receive credit for the course. Students wishing to audit must meet all prerequisites required for the course and indicate their intention to audit at the time they register for the course. Audited courses cannot be applied toward a degree or certificate and cannot be used to meet prerequisites.

The College allows students to change from credit to audit or from audit to credit by the end of the sixth week for 16-week classes (and other equivalent dates as specified for variable length courses). Students electing to change from audit to credit are responsible for having course work up to date at the time the change is made and must have instructor approval after the first week of the semester. Changes from credit to audit through the end of the sixth week for 16week courses (and other equivalent dates as specified for variable length courses) do not require instructor approval. In addition, students should be aware that exercising this option may have an impact on their financial assistance or on student employment at the College. Any student balance due created by a change in total number of enrolled credits or change of course(s) to audit status must be paid by the student. Changes in audit or oredit status must be requested by the student through the Enrollment Services/Registrar's Office.

WITHDRAWAL

I. Student-Initiated Withdrawal

- A. If a student finds it necessary to withdraw from the College, he or she should contact the Enrollment Services/Registrar's Office immediately and complete a drop-add form.
- B. If the withdrawal takes place within the established refund period for each semester, a student withdrawing will receive a refund.
- C. If a student withdraws from a semester-length class prior to the end of the sixth week of the semester (or other equivalent dates as specified for variable length courses), instructor approval is not needed, a final grade is not issued, and the withdrawn class is not recorded on the academic record. A copy of the student-initiated drop-add form is maintained in the Enrollment Services/Registrar's Office.
- D. A student may request to withdraw from a semester-length class after the end of the sixth week of the semester (or other equivalent dates as specified for variable length courses) only if he or she is completing the course requirements at a passing level (1.0 or higher) at the time the W is requested. Approval of the withdrawal is at the instructor's discretion. If the instructor finds that the student was not able to apply for the W in a timely fashion, the instructor may grant the student's request for a W if the student was passing the course on the date of the event that caused the application for withdrawal. A student may request to withdraw from a class up until the last week of the class unless a different date is specified in the course syllabus. The instructor's signature is required in order for the student to

II. Administrative Withdrawal

receive a grade of W.

The ultimate responsibility for withdrawal from a class rests with the student. However, it may be in the best interest of the student and/or the College community that a student be withdrawn from a class or a group of classes. This process is known as "administrative withdrawal."

An administrative withdrawal may be initiated by a classroom instructor in accordance with written procedures established by each department. An administrative withdrawal may be based on the following: (1) student nonattendance/non-. participation; (2) lack of prerequisites for a particular course; and/or (3) student behavior that interferes with the instructional process.

- A. When a student fails to attend or participate in the class, the instructor may initiate an administrative withdrawal through the Enrollment Services/ Registrar's Office.
- B. When a student does not have the prerequisites for a particular course, the classroom instructor consults with the student regarding the potential of administrative withdrawal. The instructor has the right to initiate an administrative withdrawal through the Enrollment Services/Registrar's Office.
- C: When a student behaves in a manner that interferes with the instructional process, the classroom instructor consults with the student regarding the potential of administrative withdrawal and establishes guidelines in writing for retaining enrollment in the class. If the student does not satisfactorily

meet the guidelines or if the student does not respond to an invitation to meet with the classroom instructor, the classroom instructor, with the corecommendation of the appropriate departmental chairperson, may initiate an administrative withdrawal. The classroom instructor, with the co-recommendation of the appropriate departmental chairperson, may also recommend that a member of the counseling staff meet with the instructor and the student to review the circumstances of the student's behavior and to work out a possible alternative.

In all cases of administrative withdrawal, a student who is withdrawn from a semester-length class prior to the end of the sixth week of the semester (or other equivalent dates as specified for variable length courses) will not receive a grade, and a record of attempting the class will not appear on the academic record. A copy of the administrative withdrawal form is maintained in the Enrollment Services/Registrar's Office. After the sixth week of the semester (or equivalent date as specified for variable length courses), the student will receive a W grade only if he or she was completing the course requirements at a passing level (1.0 or higher) up until the date of the event that caused the administrative withdrawal. If the student has not done passing work, he or she will receive a 0.0.

Any student who is administratively withdrawn may appeal the withdrawal. Lines of appeal for administrative withdrawal are presented in the catalog in the section entitled *Due Process* under the heading entitled *Student Appeals*.

III. Procedure for Resolving Health-Related Student Problems

In a situation in which a serious (physical or emotional) health-related problem becomes evident in a student, the College's responsibilities are to assist the student and take necessary action to maintain order consistent with a positive learning environment for other students. If a student's health-related behavior becomes disruptive or clearly inappropriate, the following procedures shall be followed:

- A. Call the Department of Public Safety and the Office of the Dean of the Student and Academic Support Division if:
 - 1. Emergency health services are required or
 - 2. It appears that there has been or is likely to be a violation of the law.
- B. Call only the Office of the Dean of Student and Academic Support if it appears that there has been a violation of a College regulation that is not also a violation of the law.
- C. If there is no apparent violation of the law or College regulation and no emergency exists, the student should be encouraged to seek help from an appropriate health or counseling office or agency, on or off campus. Assistance from the Office of the Dean of Student and Academic Support and/or College counselors should be sought if needed.
- D. If there appears to be a violation of the law or a College regulation, the Office of the Dean of Student and Academic Support (or designee) shall contact the counseling staff, and a member of the counseling staff will meet with the student and recommend:
 - 1. Continued counseling if the problem is within the ability of the Counseling Department to handle.
 - 2. Referral back to the Office of the Dean of Student and Academic Support when no health-related problem is evident or when it is determined that the Counseling Department can be of no further service.
 - 3. Referral to other appropriate professional assistance if the problem is beyond the ability of the Counseling Department to handle. If the problem significantly compromises the rights or safety of other persons at the College, or if a professional recommendation to withdraw the student is made, the Office of the Dean of Student and Academic Support may institute procedures for administrative withdrawal of the student from the College until he or she provides evidence from a licensed and appropriate health care professional stating that the student is able to function effectively with the stresses and demands of a College setting. The student may appeal the withdrawal decision to the Board of Appeals.
 - 4. Whenever possible, the counseling staff, working with the student's physician and/or relatives, shall make a recommendation to the student as to his or her future course of action.

ACADEMIC INFORMATION

ACADEMIC DEFINITIONS

The following are definitions of academic terms commonly used at Lansing Community College.

Associate Degree: The associate degree consists of a minimum of 60 semester credits in designated courses. It is earned with a minimum of a 2.0 cumulative GPA, successful completion of the LCC General Education Core, and is recorded on the official academic record. At least 20 semester credits must be earned in attendance at Lansing Community College.

Certificate of Achievement: The certificate of achievement consists of a minimum of 30 specifically designated semester credits in occupational areas. It is earned with a minimum of a 2.0 cumulative GPA and is recorded on the official academic record. At least 10 semester credits must be earned in attendance at Lansing Community College.

Certificate of Completion: The certificate of completion consists of fewer than 30 specifically designated semester credits in occupational areas. It is earned with a minimum of a 2.0 cumulative GPA and is recorded on the official academic record. At least one-third of the credits required for this certificate must be earned in attendance at Lansing Community College.

Credit Hour: A credit hour is an instructional unit carried out for the expressed purpose of eliciting some measure of educational change in a learner or group of learners. A credit can be awarded on a student's academic transcript when he or she successfully completes a unit of instruction of not fewer than 800 instructional minutes.

Corequisite Course: A corequisite course is a course that must be taken concurrently with another course.

Course: A course is a sequence of planned learning experiences leading to a set of expected learning outcomes. Course activities are normally scheduled over an academic semester. A student's successful completion of a course earns academic credit based on contact hours in class or in laboratories. The student also earns an academic grade which evaluates the student's success in achieving the expected outcomes. A course routinely includes tests, quizzes, a final examination, and regular out-of-class assignments. At Lansing Community College, a standard college-wide course syllabus has been created for each course. A seminar, workshop, or fee-for-service learning/training unit is not a course.

Curriculum: A curriculum is a structured program of study. Each curriculum is assigned a number.

Major: A major is the predominant subject area within a curriculum.

Prerequisite: A prerequisite is a course or other requirement that must be successfully fulfilled prior to participation in a subsequent course or activity. It may also be a skill or behavior that is judged essential to learning a subsequent, more complex skill or behavior.

Program: A program is the organizational structure of the College which provides or delivers instruction and/or services.

GRADING SYSTEM

The following numerical system is used at Lansing Community College to evaluate academic work:

and the second second		RECOMMENDED
COLLEGE	NARRATIVE	GUIDELINE FOR PERFORMANCE
STANDARD	EQUIVALENT	ACHIEVEMENT OF OBJECTIVES*
4.0	Excellent	91% to 100%
3.5		86% to 90%
3.0	Good	81% to 85%
2.5		76% to 80%
2.0	Satisfactory	71% to 75%
1.5		66% to 70%
1.0	Poor	60% to 65%
0.0	Failure	0% to 59%

* THIS GUIDELINE IS RECOMMENDED ONLY. STUDENTS SHOULD SEE THEIR IN-STRUCTOR REGARDING THE GRADING SYSTEM USED FOR A SPECIFIC COURSE.

Instead of a numerical grade, students may receive an alphabetical letter for their course work if they have audited a course (X), withdrawn from a course (W), or did not complete course work (I). Specific regulations regarding these alphabetical letters are as follows:

 Incompletes" will not be counted toward the establishment of an earned grade point average (GPA) or toward graduation from Lansing Community

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College. All requests for incompletes are initiated by the student. An instructor may assign an "I" grade at the student's request when the following conditions are met: the student is unable to complete a course for some good and serious reason (for example, incapacitating illness, legal involvement that cannot be rescheduled, or changing work obligation); the student has demonstrated successful progress in class; and the student has completed approximately 80 percent of the course work. (Note: The 80 percent figure is a benchmark, since weighting of exams and other work varies among programs and courses. The intent is that only a small portion of the work remains.) When issuing an "I" grade, the instructor will also indicate what grade will be assigned if no further work is completed. All incompletes must be made up by the end of the next regular semester (Summer session is excluded) or earlier if an earlier date is established by the instructor or department. An extension may be granted if requested in writing by the student and approved by the instructor and department by the last day of the deadline; otherwise the "I" will be converted to the grade specified if no further work is completed.

 An "X" (audit) grade is given when a student chooses to audit a course. No credit is granted, but enrollment is reflected on the student's academic record.

3. A "W" (withdrawal) indicates a withdrawal from a course with achievement in the course above the failure level at the time of withdrawal. If a request for withdrawal from a semester-length class is received by the Enrollment Services/Registrar's Office prior to the end of the sixth week of the semester (or other equivalent dates as specified for variable length courses), no grade will be recorded on the student's academic record. For withdrawals after the sixth week of the semester (or other equivalent dates as specified for variable length courses), a W is given only if the student has done passing work (1.0 or higher). If the student has not done passing work, he or she will receive a 0.0.

COMPUTING GRADE POINT AVERAGE

A student's grade point average is determined on the following basis:

r	» NUMERICAL GRAD	E	,	•	GPA POINTS	1. ¹
	4.0				4.0	
	3.5				3.5	
	3.0				3.0	
	2.5	1 A. A.		- C	2.5	
	2.0	1.1	· .		2.0	
	1.5				1.5	
	1.0		1.1		1.0	
	0.0				0.0	

"W", "X", and "I" grades are not included in calculating grade point averages. Thus, a student who receives five credit hours of 4.0, five credit hours of 3.0 and five credit hours of 2.0 would have a total of 45 GPA points. To compute the grade point average (GPA), the number of GPA points is divided by GPA hours (credits) taken during the semester.

PASS/FAIL GRADING (P-Z)

The pass (P) / fail (Z) grading system has been established as a departmental option. This system is reserved for special course offerings where a pass/fail grading system is most appropriate for the goals and objectives of the course.

- Course prerequisites and other criteria for enrolling in courses offered on the P-Z grading system shall be determined by the department offering the course.
- Courses using the P-Z grading system will be published as being graded on the P-Z grading system only, and the course syllabus shall be explicit regarding this fact.
- 3: Courses graded on the P-Z system may be counted toward an associate degree or certificate based on approval of the appropriate dean. A maximum of 10 percent of the total credits required for a degree or certificate may be acquired on the P-Z system.

Grading procedure of the pass/fail system is as follows:

- Grades on the P-Z system are not included in computing the semester or cumulative grade average.
- The grades granted on the P-Z system are determined with definitions of "P" and "Z" as follows:
- a. P (pass) represents a level of performance equivalent to a regular number ber grade of 2.0 or above on a 4.0 system; oredit is granted.

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b. Z (fail) represents a level of performance less than a 2.0 on a 4.0 system; no credit is granted.

All courses attempted on the P-Z grading system will appear on the student's academic record. Policies pertaining to the issuing of "W" and "I" grades also apply to courses graded on the P-Z system (see *Grading System* above).

REPEATING A COURSE

When a student repeats a course for a higher grade, the student's academic record and transcript will reflect every grade received for the course. However, only the highest grade is used in computing the LCC cumulative GPA and credits earned.

REPEAT ENROLLMENT POLICY

Lansing Community College has a proven commitment to student success. For that reason, the following policy has been enacted to help students who have been unable to succeed in a specific course.

When a student receives a grade of "0.0" or "W" for the same course reported on the transcript twice, and remains academically eligible to continue taking classes, the student may not enroll in the same course a third time without a permission form signed by an LCC Counselor, or a specially designated Advisor, as part of a plan to help the student be successful. (Distance students may arrange an electronic consultation.)

If the student fails or receives a "W" after the intervention, the student may not enroll again without another permission form signed by both the Counselor/Advisor AND the Dean of the Student and Academic Support Division.

USING A COURSE MORE THAN ONCE FOR CREDIT TOWARD A DEGREE OR CERTIFICATE

In order to ensure that graduates from Lansing Community College are academically well rounded, students will not be allowed to use the same course more than once for credit toward a degree or certificate unless specifically required, or permitted to do so by the curriculum they are following. Under no circumstances will a student be allowed to use the same course more than once for credit toward the General Associate Degree.

GRADE REPORTS

An official academic grade report will be available to students approximately 7 to 10 business days after the close of each semester. The grade report will be withheld if the student has an overdue indebtedness to the College.

GRADE CHANGES

Students may petition an instructor for a grade change of a final grade in a course. The line of formal appeal for grade change petitions can be found in the College's Due Process statement. A student's final grade in a course may be changed by the course instructor. Grade changes by instructors are initiated by submitting signed grade change forms to the departmental office for review and approval by the departmental chair or lead faculty member. The completed grade change form is then forwarded to the Enrollment Services/Registrar's Office for posting on the student's permanent academic record. Completed grade change forms are not to be carried by the petitioning student to the Enrollment Services/Registrar's Office and will not be processed if they are so received. Students will be sent a grade report after a grade change has been completed.

ACADEMIC STANDING POLICY

Students must maintain at least a 2.00 cumulative Grade Point Average (GPA) at Lansing Community College to remain in Good Standing, which indicates satisfactory academic progress. Students whose cumulative GPA falls below 2.00 will be placed on either "Warning" or "Probationary" standing which indicate unsatisfactory academic progress. While on Warning or Probationary standing, the student may have limits on registration for classes. In addition, students on Warning or Probationary standing may be required to meet with a counselor and sign a Success Contract prior to registering. Students can return to Good Standing byearning a cumulative GPA of 2.00 or higher. Continuing to earn a GPA below 2.00 may result in being academically recessed from LCC.

NOTE: Only course work completed at LCC is considered for determination of academic standing. The academic standing is determined at the end of each semester (Fall, Spring, Summer).

Summary of Academic Standing Policy

Good Standing: Cumulative Grade Point Average (GPA) 2.00 or above
 Warning: Cumulative GPA below 2.00: suggested that the student meet with a counselor

- Probation: Continued cumulative GPA below 2.00; registration limited to 12 or fewer credits for Fall and Spring Semesters and six or fewer for Summer Session, and student is required to meet with a counselor
- Academic Recess: Continued cumulative GPA below 2.00; student not eligible to register and must sit out one semester or Summer Session. Upon return following the semester of recess, a student must meet with a counselor to plan his or her academic success and sign a Success Contract. Satisfactory completion of this plan as well as semester-by-semester subsequent plans will allow further enrollment until a satisfactory cumulative GPA places the student in good standing.

Students receiving financial ald or veterans benefits are required to satisfy specific additional academic standards to continue receiving financial assistance. See the *Financial Aid* section of this Catalog.

Students in certain selective admission programs may have different standards for academic standing.

President's List: GPA over 3.80 Deans List: GPA between 3.50 and 3.80

ACADEMIC AMNESTY

Lansing Community College recognizes that students are unsuccessful academically for a variety of reasons. Those students may return years later to find their low GPA is a barrier to fields they might otherwise be ready to enter. LCC fias an Academic Amnesty Policy in order to allow such students a second chance. Qualified students may receive academic annesty for a maximum of eighteen semester hours (or the quarter/term equivalent) of grades of 0.0. They will mo longer be calculated into the student's GPA, and the "forgiven" grades will remain on the transcript along with a special notation explaining the Academic Amnesty Policy at LCC. The student must apply to the Registrar for academic admissr, and an academic-advisor or counselor must sign the application. In order for a student to qualify for academic amnesty, the following conditions must be met:

- 1. Five or more years must have elapsed since the last grade for which amnesty is requested.
- The student must have earned twelve semester credit hours in courses numbered 100 or above at LCC and have a cumulative GPA of at least 2.0 since the last grade for which amnesty is requested.
- 3. Academic amnesty may be granted only once to any student and is irrevocable.
- 4. The Petition/Application for Academic Amnesty must be received by Enrollment Services/Registrar's Office by the 10th week of the semester for consideration and action by the end of the semester.

Academic annesty, when granted, applies only to LCC courses----not to any courses at other institutions. Further, there is no guarantee, expressed or implied, any other college, university, or employer will recognize academic annesty.

STUDENT RECORDS

STUDENT TRANSCRIPTS

The Enrollment Services/Registrar's Office maintains the permanent officialtranscript of every student who attends the College. The transcript is a copy of the student's academic record and contains the signature of the Registrar. The transcript includes courses waived, courses attempted and completed, courses and credits transferred, credits awarded for experiential learning, credit hours, GPA points, Lansing Community College grade point average, current program and major, associate degrees, certificates of achievement, and certificates of completion awarded at the College.

Students may request that a copy of the official transcript be given or mailed to any party by submitting a request in writing to the Enrollment Services/Registrar's Office. Transcript requests require three working days to process, and a \$5.00 fee is charged for each transcript. A hold may be applied to the release of the transcript of any student or former student who has an indebtedness to the College.

RECORDS POLICY

Lansing Community College shall not distribute student lists to non-college agencies except as required by law.

In compliance with the Family Educational Rights and Privacy Act of 1974, Lansing Community College provides the following information:

- Students and/or a parent of a student, if the student is a dependent, have the right to access, inspect, and review all educational records directly related to the student. Upon presentation of pictured identification and a written request from the student to the Enrollment Services/Registrar's Office in Suite 2200 of the Gannon Vocational-Technical Center, access to all educational records shall be provided within a reasonable period of time (not to exceed 45 days from the date the request is submitted).
- 2. Educational records include all information maintained by the College that
- is directly related to the student with the exception of:
- a. Financial records of the student's parents.
- b. Confidential letters of recommendation prior to January 1, 1975.
- c. Confidential letters and recommendations associated with admissions, application for employment, or receipt of an honor or honorary recognition to which students have waived rights of inspection and review.
- d. Educational records containing information about more than one student. Note that the College must permit access to that part of the record which pertains only to the inquiring student.
- e. Reports made by physicians, psychiatrists, or psychologists in connection with their treatment.
- f. Records of instructional, supervisory, administrative, and certain educational personnel which are in the sole possession of the originator.
- Becords of the law enforcement unit of the College if compiled for law enforcement purposes.
- Records which relate exclusively to individuals in their capacity as College employees.
- 3. Directory information may be released at the discretion of College officials for any student who has not submitted a completed Request to Prevent Disclosure of Directory Information form to the Enrollment Services/Registrar's Office. The disclosure prevention form remains in effect until the student provides a written release to the Office of the Registrar. Directory information includes but is not limited to:
 - a. Name of student
 - b. Dates of attendance
 - c. Enrollment status
 - d. Awards, degrees, or certificates received
 - e. Participation in officially recognized activities
 - f. Sport, weight, and height of members of athletic teams
 - g. Previous educational agency or institution attended
 - Copies of the Request to Prevent Disclosure of Directory Information form and the Family Educational Rights and Privacy Act are available upon request in the Enrollment Services/Registrar's Office and the Office of the Dean of Student and Academic Support.
- 4. Lansing Community College prohibits the release of personally identifiable information other than directory information from educational records without the student's written consent. Exceptions to this statement are listed below:
 - a. Academic and administrative officials, staff, and persons who have entered into a partnership or contract with Lansing Community. College and whom the College has determined to have legitimate educational interest. An official has a legitimate educational interest if the official needs to review an educational record in order to fulfill his or her professional responsibility.
 - b. Other educational institutions in which the student is enrolled or intends to enroll.
 - c. Individuals and organizations who provide financial aid or scholarships $_{\rm H}$ to the student.
 - d. Authorized representatives of the Comptroller General of the United States, the Secretary of the Department of Health and Human Services, the Department of Veterans' Administration, the Department of Education, and administrative heads of state and federal educational agencies authorized by law.
 - e. Accrediting organizations to carry out their accrediting functions.
 - f. Appropriate authorities in compliance with judicial orders and pursuant to lawfully issued subpoenas. The College shall notify the student of any such orders or subpoenas unless the subpoena or order prohibits notification. The College shall comply with the subpoena ten (10) days after an attempt to notify the student of the request.
 - g. Appropriate parties in an emergency if knowledge of the information is necessary to protect the health or safety of the student or other individuals.
 - Parents who have established the student's status as a dependent according to Internal Revenue Code of 1954, Section 152.

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- An alleged victim of any crime of violence of the results of any disciplinary proceeding conducted by the College against the alleged perpetrator of the crime.
- j. Military recruiters for the purpose of federal military recruiting as stated in Public Law 104-206, Section 509(2).

Lansing Community College will maintain a record of each disclosure of identifiable information from the external individuals or agencies listed above. The record will be maintained in the Enrollment Services/Registrar's Office and will include the date, the name and address of the requesting party, the information requested, and the reason for requesting the information. The College reserves the right to correct any error made on an academic record or evaluation and will notify the student in writing of any record or evaluation correction. Staff of the College are subject to the requirements of the Family Educational Rights and Privacy Act of 1974, as amended.

Students have the right to request correction or amendment of information on educational records that are inaccurate, misleading or which violate privacy rights. Due process procedures for requesting correction or amendment to educational records are stated in the *College Catalog* under *Student Appeals*.

Students who feel their rights under the Family Educational Rights and Privacy Act have been abridged may file complaints with the Family Policy and Regulations Office, U.S. Department of Education, Washington, D.C. 20202.

GUIDELINES AND PROCEDURES FOR THE EVALUATION OF INCOMING TRANSFER CREDITS

Only official transcripts will be evaluated for transfer credit. Lansing Community College will determine the credit value of each of the courses. The College will accept as official transcripts only incoming transcripts that have appropriate signatures and/or official college seals and that are mailed directly to the Lansing Community College Enrollment Services/Admissions Office from an issuing institution. Transcripts or copies of transcripts carried by individuals may be used for academic advising or counseling, but transfer credits will NOT be posted to the Lansing Community College academic record from transcripts that are not received directly from the issuing institution. It is the function of the Enrollment Services/Admissions Official status of all incoming transcripts prior to the evaluation and posting of transfer credit. All transcripts submitted to LCC for evaluation become the property of LCC. Student's will receive official to the receive evaluation of transcript evaluation from the process.

Course work, which is similar in nature, content, and level to that offered by Lansing Community College, will be accepted in transfer. Transfer credit will be accepted at full value in transfer if earned:

- In a program, college, or university which offers programs that are comparable to programs offered by Lansing Community College, and the program or institution is either accredited or a candidate for accreditation by an accrediting association which is a member of Council for Higher Education Accreditation (CHEA), or
- From institutions with professional accreditation but lacking regional accreditation, with attainment of a final grade of 2.0 or higher, providing an evaluation has been completed by appropriate faculty at Lansing Community College.

CREDITS EARNED AT ACCREDITED INSTITUTIONS

- 1. Evaluation of courses will be implemented on a consistent basis. Course work, which is similar in nature, content, and level to that offered by/Lansing Community College, will be accepted in transfer. Changes in students' curricula will not justify a change in how a course has been evaluated by the Enrollment Services/Registrar's Office. For example, should a student bring in credit for ACCG 210, that evaluation is permanent. If the student's curiculum requires a different ACCG course from that evaluated. If appropriate, a Course Substitution/Waiver form will be filled out at the department level.
- 2. Freshman and sophomore level courses are reviewed for credit, provided the student has declared a curriculum (major or program of study). Higher-level oredits may be accepted if they correspond to a specific course at Lansing Community College. In most cases, an accepted course will be considered as an equivalent of a corresponding Lansing Community College course or as general credit in a corresponding Lansing Community College program. In cases where Lansing Community College does not have a department or program similar to the courses on incoming transcripts, credit may be denied. Credits for courses graded Pass/Fail are not accepted in transfer.

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- General Education courses (college-level Writing/English, Science, Social Science, Humanities) are routinely accepted in transfer.
- Physical Education courses may transfer, depending upon the program at Lansing Community College.
- 5. In some programs of study, credits earned in Math, Science, Technology, Health Careers, and/or other rapidly evolving fields may not be accepted in transfer due to age and/or content of courses and will be evaluated by
- appropriate program officials.6. Independent study, field experience, and internships may transfer depending upon the level and appropriateness of the learning experience.
- 7. Study abroad courses may transfer depending upon the international institution offering the courses, the relationship between the international institution and the domestic institution from which the student is transferring, and the level and appropriateness of the learning experience.
- Remedial or developmental courses are not considered college level and do not transfer.
- 9. Credit equivalencies will be converted using the following guidelines:
 a. Quarter credits should be converted to semester credits (quarter credits x 2/3 = semester credits), without rounding up.
 - b. A transfer course, which equates to an LCC course, and is lacking one credit or less, should be designated as the equivalent LCC course. (Transfer students with fewer credits than those awarded for an LCC equivalent course may not have met all requirements of the equivalent course, and should meet with a program advisor.)
 - c. Credits only, not grades, are transferred. When the overall grade point average of a transferring student is at a above a 2.0 on a 4.0 scale; the 1.0-1.5 or "D" grades may be accepted. Credits transferred in to specifically fulfill LCC General Education Core requirements and MACRAO requirements must be graded 2.0 ("C") or higher. When the transferring overall grade point average is below 2.0 on a 4.0 scale, only courses graded 2.0 ("C") or higher will be accepted. With the exception of credits transferred in to fulfill LCC General Education Core requirements, the student may petition the departmental chairperson of his or her academic department to waive a degree or certificate course requirement(s) in which he or she has previously earned the 1.0-1.5 or "D." Waiver of a course requirement does not provide credit for a course. The department chair will notify the Enrollment Services/Registrar's Office of waivers.
 - d. No evaluation is made when a student has received a two- or four-year degree from another institution. This may be done upon request, but it is assumed that the student is pursuing an entirely different curriculum and will not need previous course work.
 - e. A student may request a review of the evaluation if he or she feels that a course description differs from the way in which it was evaluated. The department chairperson, in conjunction with the Registrar, will review the evaluation. Any resulting change(s) to the evaluation may be verified through the Enrollment Services/Registrar's Office.

CREDITS EARNED AT NON-ACCREDITED INSTITUTIONS

The following evaluation information applies to transcripts from non-accredited institutions:

- The Enrollment Services/Registrar's Office will forward a transcript from a non-accredited institution to the departmental chairperson of the department in which the student has enrolled.
- The departmental chairperson has the following four prerogatives in evaluating transcripts issued by non-accredited institutions:
 - Credit may be granted with demonstration by the student of skills commensurate with the performance required for satisfactory completion of existing courses.
 - b. Credit may be granted upon review of the content, goals, and objectives of a particular course with determination of whether the course is on par with existing courses of the College. It is the responsibility of the student to provide requested materials to enable proper evaluation.
 - Credit may be granted upon demonstration of proficiency in a particular existing course by a comprehensive examination.
 - Credit may not be granted.
- 3. The departmental chairperson will return the transcript to the Enrollment Services/Registrar's Office and indicate in writing the credits granted and the course equivalency at Lansing Community College. The final transcript evaluation will have the signature of the appropriate divisional dean.
- 4. When two or more instructional departments are involved, the departmental chairperson of the department offering the student's program will be

5. Credits from non-accredited institutions are evaluated by the departmental chairperson of the area in which the student is enrolled. If the student changes his or her curriculum, he or she should notify the Enrollment Services/ Registrar's Office because there may be a difference in the evaluation.

CREDITS EARNED IN FOREIGN INSTITUTIONS

Students with foreign education credentials (other than credits at Lansing Community College sister institutions) should contact one of the following National Association of Credential Evaluation Services, Inc. (NACES) member credential evaluation'services and request a course-specific evaluation. (A course-specific evaluation converts grades, educational experiences, and levels of study into U.S. equivalents.)

- Educational Credential Evaluators, Inc., P.O. Box 92970, Milwaukee, WI 53202-0970; e-mail: eval@ece.org
- World Education Services, Inc., P.O. Box 745 Old Chelsea Station, New York, NY 10113-0745; e-mail: info@wes.org
- International Education Research Foundation, Inc. (medically-related credentials), P.O. Box 66940, Los Angeles, CA 90066; e-mail: info@ierf.org

When LCC receives a NACES evaluation report, the Enrollment Services/ Registrar's Office will compare it to the course requirements for the program indicated on the application. If LCC grants credit based on this report, it will become part of the student transcript at LCC.

Mini-grants in the amount of \$70-\$80 for foreign credit evaluations conducted by a professional credit evaluation service are available for international students who demonstrate critical financial need. Students must meet the following criteria in order to be eligible for a grant:

- 1. Must be enrolled as a student at Lansing Community College
- 2. Must be approved for federal financial aid
- 3. Must be recommended by an LCC counselor
- OR -

The international student's circumstances have changed enough to warrant consideration for assistance with this fee as determined by the counselor responsible for international students, e.g., students who are currently receiving Special Student Relief because of economic crises in their countries; students whose circumstances have changed since their original financial documents were submitted; students who have experiences a drastic devaluation of currency in their home country; and students who receive permission from the USINS for employment

A Foreign Credit Evaluation Mini-Grant Application will be completed by an LCC counselor and submitted to the Lansing Community College Foundation.

CREDITS EARNED AT MILITARY SCHOOLS

authorization due to:severe economic hardship,

Military Schools – Credit may be granted for degree programs. Recommendations found in *Guide to the Evaluation of Educational Experiences in the Armed Services*, published by the American Council on Education, and available online at http://www.militaryguides.acenet.edu are forwarded to the appropriate program for evaluation. If the experience is determined to provide appropriate preparation, credit is granted. For course work completed by the Defense Language Institute, Foreign Language Center at the Presidio of Monterey in California, credit is routinely granted.

EXAMINATIONS AND AP COURSES

AP (Advanced Placement Program of the College Board) (http://apcentral. collegeboard.com/) – Credit or waiver of courses may be granted for the successful completion of AP courses and examinations. Specific recommendations will be determined by the AP grades received. Official high school transcripts listing AP grades should be sent to the Lansing Community College Enrollment Services/ Admissions Office.

CLEP: (College Level Examination Program) (http://www.collegeboard.com/ clep/) - Credit or waiver of courses may be granted for the successful completion of General Examinations and/or Subject Examinations. Specific recommendations will be determined by the scores received. CLEP transcripts should be forwarded directly to the Lansing Community College Enrollment Services/Admissions Office from the CLEP Transcript Service, P. O. Box 6600, Princeton, NJ 08541-6600. DSST (DANTES Subject Standardized Test) (http://www.getcollegecredit.com)

- Credit or waiver of courses may be granted for the successful completion of DSST examinations. Specific recommendations will be determined by the DSST grades received.

OTHER EXPERIENCES (WORKSHOPS, WORK EXPERIENCES, SEMINARS, ETC.)

For credit to be granted for a non-collegiate course, workshop, or seminar, the student must demonstrate the quality of their learning achievement through measurable means, e.g. course final examination, comprehensive examination, the completion of "Credit for Previously Acquired Knowledge and Learning Experience" as outlined in the College catalog, approved state or national licensure or certification, or other means specified in a formal, articulated agreement. Contact the Enrollment Services/Registrar's Office for specific details.

CREDIT FOR APPROVED STATE OR NATIONAL LICENSURE OR CERTIFICATION

Lansing Community College recognizes that current licensure or certification represents learning for which credit may be granted. Therefore, the College assesses national and state licenses as part of its credentialing function. Any student who has applied to Lansing Community College may apply for license or certification credit evaluation. Contact the Enrollment Services/Registrar's Office, Gannon Vocational-Technical Building, (517) 483-1200 to determine which college department will perform the assessment.

NOTE: Lansing Community College's decision to award credit for licensure or certification does not obligate any other institution to accept such credits in transfer. Receiving institutions reserve the right to assess transcripts of incorning students and award credit as they see fit. Credits received by students that are based on licensure or certification may not be used for financial aid or veteran's benefits, eligibility. Some Lansing Community College courses are axcluded from licensure or certification.

Lansing Community College does not accept the transfer of credit for licensure or certification awarded at other institutions.

APPEAL PROCEDURE

Students who believe these Guidelines and Procedures have not been implemented accurately in the evaluation of their transfer credits may initiate an appeal with the Enrollment Services/Registrar's Office in conjunction with the appropriate area or department. If dissatisfied with appeal results, the standard academic appeal process is available. (See the Lansing Community College catalog for more information.)

CREDIT FOR PREVIOUSLY ACQUIRED KNOWLEDGE AND LEARNING EXPERIENCE

Lansing Community College recognizes that learning outside of the classroom is valid. Therefore, the College assesses extra-institutional learning as part of its credentialing function. Any student who has applied to Lansing Community College may apply for experiential learning credit by obtaining an Experiential Learning Processing Form from the Enrollment Services/Registrar's Office, Gannon Vocational-Technical Building, (517) 483-1200.

NOTE: Lansing Community College's decision to award credit for experiential learning does not obligate any other institution to accept such credits in transfer. Receiving institutions reserve the right to assess transcripts of incoming students and award credit as they see fit. Credits received by students that are based on experiential learning may not be used for financial aid or veteran's benefits eligibility. Some Lansing Community College courses are excluded from experiential learning may not be used for financial are excluded from experiential learning consideration.

Lansing Community College does not accept the transfer of credit for experiential learning awarded at other institutions.

Application Procedures

Relevant aspects of personal and professional experience gained through actual job-related activities and special training experiences may be applied to an academic program at Lansing Community College. Learning experiences must directly relate to a specific course or courses required within a Lansing Community College program (curriculum) or the LCC General Associate Degree. These expe-

CREDIT BY EXAMINATION

comprehensive examination credit is as follows:

ment Services/Registrar's Office.

Comprehensive Exams

riences must have been obtained from a nonacademic source or not otherwise be available for academic credit through the transfer process outlined earlier. The student will be asked to declare his or her program of study on the Experiential Learning Application.

Prior to payment of a \$25.00 processing fee and submission of a portfolio of supporting documents, the student is advised to review with the academic department in which credit is being sought the probability of credit being granted. Students must then submit the completed Experiential Learning Processing Form to the Enrollment Services/Registrar's Office including as much supporting documentation as possible. The student must also attest by his or her signature that the information submitted is true to the best of his or her knowledge. The processing fee must accompany submission of the form and portfolio. The processing fee is not refundable.

Upon completion of the portfolio assessment, a fee of the resident tuition rate per credit hour will be charged for those credits which are determined awardable and which apply to the student's program (curriculum). Fees are subject to change by the Board of Trustees without prior notice. A student will have three (3) months from the date of credit authorization to make selections and pay all fees in full.

Documentation

The student must document all experiential learning. The purpose of the documentation is to substantiate that a student's knowledge and/or experience equates to specific Lansing Community College courses. The documentation must therefore be arranged within the application portfolio on a course-by-course basis and should demonstrate knowledge and/or skill equivalent to at least 80 percent of the course objectives. Documentation may be defined as, but not limited to, complete job descriptions, copies of course materials and outlines; certificates, training reports, signed supervisory verifications and evaluations on letterhead, and any other descriptive information that may provide a clear understanding of a student's background and competencies. Lansing Community College requires certification that the work or training experience is the student's own. The College will retain the portfolio containing the Experiential Learning Processing Form and all supporting documents.

Assessment of Portfolio

The completed Experiential Learning Processing Form and portfolio of supporting documents will be forwarded by the Enrollment Services/Registrar's Office to the appropriate divisional instructional leader. The instructional leader will assign the portfolio to an appropriate and impartial assessor for review and credit assessment. Assessors have the responsibility for evaluation and assignment of academic credit for experiential learning.

In the evaluation process, the assessor will verify the relevance of the information stated on the Experiential Learning Processing Form and the accompanying documentation as it equates to the courses requested. The authorization of credit must be stated in terms of equivalent courses that are offered by LCC.

Applicability of Credit

In determining whether it is appropriate to accept a student's experiential learning for credit, the major considerations should be the student's educational objective and extra-institutional learning achievement. The assessor will determine from documentation submitted the courses for which the student can be granted experiential learning credit. The student is responsible for determining how these courses may fit within their academic program (curriculum). Credit for experiential learning will be recorded on a student's official transcript on the basis of course-by-course equivalency and shall be prominently identified as credit for experiential learning. A maximum of 40 senester hours of experiential learning credit may be applied towards an LCC associate degree. (Twenty credits must be earned in attendance at Lansing Community College.)

Student Appeal Procedures

Students who believe the evaluation of their experiential learning is incorrect may file a written appeal to the dean of the division in which the experiential learning credit is being sought. Appeals must be received within six months from the date the credit application was assessed. In such instances, the dean will conduct a procedural review to ensure that the student has been treated in a fair and nondiscriminatory manner. The decision of the dean shall be final.

adge. The processing takes the application to the department for instructor and departmental

chairperson signatures of approval.3. After obtaining the required signatures, the student returns the signed application to the Cashier's Office for payment of tuiltion.

A student may obtain credit for certain courses at the discretion of an instruc-

1. The student picks up an application for credit by examination at the Enroll-

2. The student completes the required information on the application and

tor and department head by passing comprehensive examinations only during the

semester in which the student is enrolled. The procedure a student uses to obtain

- The student will complete an examination for each course in which he or she hopes to receive credit.
- An examination will not be given by the instructor until the student presents the appropriate payment receipt. No more than one examination will be given for a single payment.
- The examination, after being evaluated by the instructor, will be maintained on file in the departmental office.
- 7. The Enrollment Services/Registrar's Office will contact the department and request the grade which was earned upon completion of the examination. A grade will be recorded for each comprehensive examination given.
- The student will receive an official notice of the grade earned at the end of the semester'in which the examination was taken or when processing has been completed.

GRADUATION REQUIREMENTS, CERTIFICATES, AND DEGREES

INSTITUTIONAL REQUIREMENTS FOR CERTIFICATES OF ACHIEVEMENT AND CERTIFICATES OF COMPLETION

Certificates of achievement and certificates of completion are groups of designated courses or s designated course in occupational areas. To receive a certificate of achievement or certificate of completion from Lansing Community College, a student must meet the following institutional graduation requirements:

- Complete a course of study approved by the Coilege and consisting of a minimum of 30 semester credits for a certificate of achievement and lewer than 30 semester credits for a certificate of completion with no more than 10 percent of these credits acquired on the passfail (P-Z) grading system. (See the *Degree and Certificate Programs* section of the catalog.)
- 2. Maintain a cumulative grade point average of 2.0 or above in all courses taken at the college.
- Earn toward the curriculum at least one-third of the semester credits for the certificate in attendance at Lansing Community College. Credits earned through comprehensive exams will not be counted loward this requirement.
- File an application for graduation with the Enrollment Services/Registrar's Office at least one semester preceding the semester of graduation.
- Satisfy all general and specific requirements of Lansing Community College. NOTE: Students seeking a certificate of achievement or certificate of completion may not follow curricular quides which predate their first semester of enrollment.

INSTITUTIONAL REQUIREMENTS FOR ASSOCIATE DEGREES

To receive an associate degree from Lansing Community College, a student must meet the following institutional graduation requirements:

- Complete a course of study approved by the College and consisting of a minimum of 60 semester credits with no more than 10 percent of these credits acquired on the pass/tail (P-Z) grading system. (See the Degree and Certificate Programs section of this catalog.)
- 2. Maintain a cumulative grade point average of 2.0 or above.
- -3. Earn toward the curriculum at least 20 semester credits for the Associate degree in attendance at Lansing Community College. Credits earned through comprehensive exams will not be counted toward this requirement.

- 5. Satisfy all general and specific requirements of Lansing Community College,
- 6. File an application for graduation with the Enrollment Services/Registrar's Office one semester preceding the semester of graduation.

NOTE: Students seeking an associate degree may not follow curricular guides which predate their first semester of enrollment.

Those students who maintain a 3.75 or higher grade point average will be graduated Summa Cum Laude (with highest honors); those who maintain a 3.50–3.74 grade point average will be graduated Magna Cum Laude (with high honors); those with a 3.25–3.49 will be graduated Cum Laude (with honors). Students must complete 40 semester credit hours of work at Lansing Community College to qualify for honors.

General requirements for associate degrees offered by Lansing Community College are presented below. (For specific degree requirements, see the *Degree* and *Certificate Programs* section of this catalog.)

Associate in Arts: This is primarily a transfer degree. It is designed for students who intend to transfer to a four-year institution to pursue a baccalaureate degree in such fields as liberal arts, education, humanities, or the social sciences. Requirements: 60–63 credits, including a minimum of 16 LCC General Education Core credits, additional general education MACRAO requirements, subject matter concentrations (humanities, for example), and institutional associate degree requirements.

Associate in Science: This is primarily a transfer degree: It is designed for students who intend to transfer to a four-year institution to pursue a baccalaureate degree in such fields as mathematics, engineering, or the sciences. Requirements; 60–63 credits, including a minimum of 16 LCC General Education Core credits, additional general education MACRAO requirements, subject matter concentrations (mathematics, for example), and institutional associate degree requirements.

Associate in Applied Arts: This degree is designed for students who seek education and the acquisition of skills needed to enter the job market or to advance their current careers. This degree includes a concentration of courses in fields such as the visual arts or the performing arts. Requirements: 60–72 credits, including a minimum of 16 LCC General Education Core credits, specific career program requirements, and institutional associate degree requirements.

Associate in Applied Science: This degree is designed for students who seek education and the acquisition of skills needed to enter the job market or to advance in their current careers. This degree includes a concentration of courses in fields such as health care, manufacturing, and construction. Requirements: 60–72 credits, including a minimum of 16 LCC General Education Core credits, specific career program requirements, and institutional associate degree requirements.

Associate in Business: This degree is designed for students who seek business education and the acquisition of business-related skills needed to enter the job market or to advance in their durrent careers. This degree includes a concentration of courses in areas such as marketing, management, and office administration. Requirements: 60–72 credits, including a minimum of 16 LCC General Education Core credits, specific career program requirements in business-related areas (marketing, for example), and institutional associate degree requirements.

General Associate Degree: This degree is a customized program of study that should be approved by an academic advisor or counselor. A minimum of 60 credits is required and includes the LCC General Education Core requirements. Students must also complete EITHER a minimum of 12 related credits in an area of study of their own choosing OR they must complete the credits listed on a transfer guide. (See *Transfer Information* in the catalog for a list of institutions for which transfer guides are available.) Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

LCC GENERAL EDUCATION REQUIREMENTS

In order to meet the needs of life-long learners in a constantly changing world, Lansing Community College believes that a common core of skills, knowledge, understanding, and reasoning is indispensable for all students granted an associate degree. This background is essential to every person as a productive worker and citizen and is a foundation upon which an individual can build a life-long pursuit of knowledge and education. In keeping with these beliefs, the College has established General Education Core requirements at the college level in the areas of communication, global perspectives and diversity, mathematics, soience, and writing for students seeking an LCC associate degree. The student outcomes expected for each of the Core areas are presented below.

1. Communication

- · Define and explain the nature of the communication process.
- Use language and nonverbal behavior to express ideas and feelings clearly and responsibly.

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- · Participate constructively in group/team discussions/activities.
- · Research, prepare, and present oral and/or visual information effectively.
- Listen/interpret, with both literal and critical comprehension, in a variety of communication situations.

2. Global Perspectives and Diversity

- Describe and analyze the ways in which societies and/or world civilizations establish socio-cultural order and the effects of these on individuals and the societies and/or world civilizations.
- Describe and analyze how different societies and/or world civilizations have searched for truth, justice, and an understanding of what it means to be human.
- Describe and analyze how major ideologies within societies, and/or world civilizations have resulted in peaceful and/or violent solutions to conflicts.
- Describe and analyze how major ideas, issues, values, and institutions in societies and/or world civilizations have shaped cultures and the effects these have on individuals.
- Describe, analyze, and examine the impact of the inclusion and/or exclusion of diverse perspectives of gender and ethnicity by societies and/or world civilizations.

3. Mathematics

- Use the strategies of arithmetic, geometry, and algebra to solve problems and effectively communicate the solutions in a variety of disciplines.
- Use, interpret and produce one or more representations of a function, including graphs in one or more variables.

4. Science

- Discuss and summarize basic knowledge of the nature, scope, purposes, and limitations of science and technology.
- Explain and apply the fundamental concepts of one of the sciences.
- Gather, analyze, interpret, and draw conclusions from empirical data.
- Use scientific knowledge and methods as tools to make decisions about contemporary issues involving science and technology.

5. Writing

- Use reading, writing, and critical thinking skills to analyze, synthesize, and evaluate abstract concepts and concrete information.
- Use the stages of the writing process effectively.
- Properly locate, incorporate, and attribute sources of information.
- Produce effective writings that are targeted to various academic, community, and/or professional audiences.
- · Conform to conventions of grammar, punctuation, and spelling.

HOW STUDENTS CAN SATISFY LCC GENERAL EDUCATION CORE REQUIREMENTS

All students must fulfill LCC General Education Core requirements in order to be awarded an associate degree. The ways in which students can satisfy these requirements are presented below. Because these may be revised each academic year, students should consult an academic advisor or the most recent catalog information to stay informed of current options for satisfying Core requirements. Students should also be aware that not all courses that satisfy the LCC Core transfer to all colleges. Students planning to transfer should see an academic advisor or courselor before enrolling in any course.

Students can satisfy the General Education Core requirements for the areas of communication. global perspectives and diversity, mathematics, science, and writing in any of the following ways (a minimum of three credits is required for each of the areas):

1. Achieve a grade of 2.0 or higher in an approved Core course (credits in parentheses):

1		
. Communication		(2)
ARTS 102	Design & Communication	(3)
SIGN 160	Orientation to Deafness	(3)
SPCH 110	Oral Communication in the Workplace	(3)
SPCH 120	Dynamics of Communication	(3)
SPCH 130	Fundamentals of Public Speaking	(3)
. Global Perspec	tives and Diversity	
ECON 260	Comparative Economic Systems	(3)
ENGL 211	World Literature I	(4)
ENGL 212	World Literature II	(4)
HUMS 160	Mythology	(4)
HUMS 211	History of Art I	
		(4)
HUMS 212	History of Art II	(4)
HUMS 213	World Civilizations I	(4)
HUMS 214	World Civilizations II	(4)
MGMT 234	Diversity in the Workplace	(3)
MUSC 240	World Music History I	(4)
MUSC 241	World Music History II	· (4) · .
OADM 275	Cultural Differences in Business	(3)
PHIL 211	World Philosophies I	(4)
PHIL 212	World Philosophies II	(4)
POLS 260	Comparative Political Systems	(3)
SOCL120	Introduction to Sociology	(4)
SOCL 260	Race and Ethnicity	(3)
500E 200	Hace and Ethnicity	.(0)
Mathematics		
MATH 112	Intermediate Algebra	(4)
MATH 115	Technical Math II	(4)
MATH 117	Math for Business	(4)
MATH 118	The Art of Geometry	(3)
MATH 119	Investigations with Math	(3)
Science		
ASTR 201	Introductory Astronomy	(4)
BIOL 120	Environmental Science	. (4)
BIOL 127	Cell Biology	(4)
	Intro Anatomy and Physiology	
BIOL 145		(4)
BIOL 202	Human Physiology	(4)
CHEM 135	Chemistry In Society	(4)
CHEM 151/161	General Chemistry Lecture I	
· · · · ·	and Laboratory I	(4/1)
GEOL 230	Environmental Geology	(4)
ISCI 121	Integrated Science for Education I	(4)
ISCI 131	Integrated Science - Physical	(4)
PHYS 120	The Art of Physics	(4)
PHYS 251	Physics I: Mechanics	(4/1)
Writing	and a second	
ENGL 122	Writing about Literature and Ideas	(4)
ENGL 132	Honors Writing about Literature and Ideas	(4)
WRIT 121	Composition I	(4)
	Composition II	
WRIT 122		(4)
WRIT 124	Technical Writing	(3)
	Business Writing	·(3)
WRIT 127		6.45
WRIT 127 WRIT 131 WRIT 132	Honors Composition I Honors Composition II	(4) (4)

- 2. Pass a Comprehensive Examination (where appropriate and available) for an approved course in a Core area. Upon successfully completing the exam, the student receives LCC credit for the course. (A comprehensive exam is an exam for which the student completes an application, pays the tuition for the course, and receives the grade earned on the exam on his or her transcript. See the "Credit by Exam".
- 3. Pass a Core Area Proficiency Examination, where appropriate and available. Each exam is specific to a single core area and is administered for a fee in the Assessment Center, Suite 2100, Gannon Vocational-Technical Building. The Mathematics Core Area Proficiency Exam can be taken twice. All other exams can only be taken once to satisfy the core area.

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 In mathematics, achieve a grade of 2.0 or higher in any non-Core mathematics course, at MATH 121 or above.

- 5. Present evidence of an earned associate or baccalaureate degree from an accredited college or university.
- 6. If no degree has been earned, transfer in comparable course credit for an approved course from an accredited institution. General credit does not apply unless documentation for the Core area learning outcomes is provided and approved by the appropriate Instructional Office and Department.
- Establish appropriate course credit through the Advanced Placement Examination (AP), College Level Examination Program (CLEP), 'DANTES Subject Standardized Tests (DSST), and/or others as recognized by LCC.
- Establish credit for an approved course through the Experiential Learning Process. See "Credit for Previously Acquired Knowledge and Learning Experience"

The following do NOT satisfy General Education Core requirements: • LCC placement test scores

- · A waiver of any course that is also a Core course
- Completion of higher-level courses that are not approved Core courses (see mathematics information in #4 above for mathematics exception)

HOW TO APPLY FOR THE ASSOCIATE DEGREE, CERTIFICATE OF ACHIEVEMENT, OR CERTIFICATE OF COMPLETION

Prior to submitting an application for a degree or certificate, students should consult with an advisor to review progress toward completing requirements. Substitutions or waivers for program requirements must be approved on an authorized form signed by the department offering the program. (Substitutions and waivers are not allowed for institutional degree or certificate requirements. See *Institutional Requirements for Certificates of Achievement and Certificates of Completion* and *Institutional Requirements for Associate Degrees* in this section.)⁵ The process of applying for a degree or certificate takes approximately one semester, so students should apply one semester in advance of the semester they plan to graduate.

Procedures are as follows: ~---

- 1. Complete an Application for Diploma/Certificate. This application is available in the Enrollment Services/Registrar's Office.
- Attach a copy of the curricular guide (program of study) for the degree or certificate being sought. NOTE: Students may not follow a curricular guide that predates their first semester of enrollment. The requirements must be met by the semester the curricular guide expires.
- Return the application and the curricular guide to the Enrollment Services/ Registrar's Office. If a department has authorized program substitutions or waivers, the completed and signed form(s) must accompany the application.
- 4. If the Enrollment Services/Registrar's Office determines that there are requirements NOT met, the student will receive a report specifying the unmet requirements which must be completed.
- If all the requirements are met, the student will receive a letter indicating that the degree or certificate will be awarded.
- 6. The LCC transcript will show the degree or certificate awarded.
- 7. Diplomas and certificates are mailed to students during the semester after
- degrees or certificates have been awarded.

SEMESTER TRANSITION PROGRAM COMPLETION INFORMATION

In the fall of 1993, Lansing Community College changed from a quarter to a semester system. Students who first enrolled at the College for Fall Semester 1993 and thereafter are considered semester students.

Students who started degree or certificate programs at LCC prior to Fall Semester 1993 and are continuing their studies on the semester system are considered transition students. In order to complete college requirements or curriculum requirements for their declared major, transition students should meet with an academic advisor to complete a Curriculum Completion Plan.

PLEASE NOTE: All Curriculum Completion Plans must be approved by departmental chairpersons. All students must follow a semester curricular guide.

Most Lansing Community College curricular guides are valid for a period of five years. The inclusive dates are printed on each guide. All quarter-based curricular guides expired at the end of Summer Session 1997.

TRANSFER

Students planning to transfer to another institution should be aware that universities and colleges differ widely in the courses they accept for transfer. A student intending to transfer should follow the transfer guide of the institution to which he or she intends to enroll. Transfer guides are not LCC degree guides. In order to achieve maximum transferability of courses, students should consult with an academic advisor or counselor. (See the *Transfer Information* section of this catalog for more information about transfer programs.)

REGULATION FOR THE GRANTING OF ADDITIONAL ASSOCIATE DEGREES

Any student who received an associate degree from Lansing Community College or any other accredited community college may be awarded a second associate degree subject to the following stipulations:

- For each additional associate degree, a minimum of 10 semester credit hours must be completed at LCC in the division in which the degree is sought, non-repetitive of previously earned credits. (NOTE: The institutional associate degree requirement of 20 credits earned at LCC must be met by those students not receiving their first degree at LCC.)
- 2. All requirements for an associate degree in either arts, applied arts, business, science, or applied science must be met.
- 3. The College's General Education Core requirements must be satisfied.
- No additional degree will be granted in the same program or curriculum in which the first degree was earned.
- 5. Exceptions to the above should be appealed to the Academic Affairs Office.

REGULATION FOR GRANTING AN ASSOCIATE DEGREE WHEN THE STUDENT HAS AN EARNED BACHELOR'S DEGREE

A student who has earned a bachelor's degree from an accredited American college or university which has a general education requirement may be awarded an associate degree at Lansing Community College subject to the following requirements:

- For each associate degree, a minimum of 10 semester credit hours must be completed at Lansing Community College in the division in which the assoclate degree is sought. The Lansing Community College cumulative grade point average must be at or above a 2.0 level.
- 2. All requirements for an associate degree in either arts, applied arts, business, science, or applied science must be met,
- 3. The College's General Education Core requirements are waived.
- 4. The associate degree must be within a specific program or curriculum.
- Exceptions to the above should be appealed to the office of the dean of the division in which the associate degree is sought.

ASSURANCE OF QUALITY

Lansing Community College offers assurance—a guarantee—to its students; prospective employers; and receiving transfer colleges, universities, and technical training institutions, that individuals who have earned LCC degrees or certificates are competent to perform in their areas of major study.

Transferring students who have earned an official Lansing Community College certificate or degree should be able to perform competently in the area in which they majored or specialized at Lansing Community College.

Non-transferring students who have earned an official Lansing Community College certificate or degree should be able to perform competently in the area in which they majored or specialized at Lansing Community College.

A Lansing Community College graduate may be permitted to retake a specified course or courses, when next offered, with no tuition or fee charge by submitting his or her request to the Enrollment Services/Registrar's Office along with supporting documentation from the institution to which he or she has transferred or from his or her employer, whichever is appropriate.

Because unused skills and knowledge can decay rapidly, the assurances offered herein will be in effect for one year from the date the course or courses in question were taken at Lansing Community College.

STUDENT RIGHTS, RESPONSIBILITIES, AND CONDUCT

The College adheres to the principle that the campus climate provides for students maximum freedom and necessary order. In order to ensure this principle, the College has established procedures for the redress of grievances by inclinderduals accused in such proceedings. In addition, general rules and regulatoric have been established by the College to ensure the protection of student rights and the efficient operation of College programs. In cases of noncompliance with these regulations, the College will impose discipline that is consistent with the impact of the offense on the College community. The College also reserves the right to pursue criminal and/or civil action where warranted.

GENERAL RULES AND REGULATIONS Assaults

Assault and/or battery, and threatening, attempting, or using physice (arco or intimidation against (a) any person on the College premises or at a Cohege-sponsored function (athletic events, activities, etc.), or (b) any College student or employee in connection with the performance of his or her College duties are prohibited. For the purpose of this regulation, assault is defined as an altempt or offs , with force and violence, to do corporal hunt to another with apparent oresent means of carrying out the attempt. Battery is an injury that results from an agent, revengeful, rude, or insolerit means

Assembly

No person or persons shall assemble in a manner that obstructs the free movement of persons about the campus or the free and normal use of College buildings and facilities or prevents or obstructs the normal operation t at the College.

Attendance

Students are expected to attend all sessions of each course in which they are enrolled. Failure to do so will result in academic penalty or with *Ganal* from the class. Absence for any reason, including illness or late registration in the way relieves the student of the responsibility for completing all work in the course to the satisfaction of the instructor in charge. When a student receives a *Gauty* and etcal notice of nonattendance, it is the student's responsibility to contact the instructor.

When a student cannot attend class due to illness or other external and reasons, the class instructor should be notified.

Cheating

Each student is expected to be honest in his or her work. Geoding is dishonest. The term "cheating" includes but is not limited to: (1) use of any unauthorized assistance in taking quizzes, tests, or examinations, (2) dependence upon the zid of sources beyond those authorized by the instructor in writing papels, preparing reports, solving problems, or carrying out other assignments or (3) the acculation without permission, of tests or other academic material belonging to a menther of the College faculty or staff. Any interaction between students in a testing advance may be interpreted as cheating. Academic honesty is twotold on the papel, of the actual dent; first, not to cheat, and second, not to enable others to cheat.

Computer Resources - Acceptable Use

The LCC Acceptable Use Policy describes the policies and guidelines for the use of the College's computer resources. Use of College-caucod computer resources is a privilege extended by the College to students, employed, and other authorized users as a tool to promote the mission of the College AL cars agree to be bound by the terms and conditions of the LCC Acceptable Use Policy at the time they complete an account application form. Copies of the LCP integrable Use Policy at the USE Policy are available at the Library Circulation Desk and may also be proceeded on the World Wide Web. The URL is http://www.icc.eduraup.html

Conduct - Interim Due Process Suspension

If a student's misconduct gives cause for belief that the physical or emotional safety of any member of the College community is threatened or that any personal or public property is jeopardized, the student's right to be on campus can be immediately suspended. A suspension of this type is called an Interim Due Process Suspension. Interim Due Process Suspensions will take effect immediately upon direction of the Director of Student Judicial Affairs or the Dean of the division where the misconduct occurred and will last for no more than 10 days. A procedural due process hearing with proper notifications will be established during this 10-day period. (See section entitled *Due Process.*)

Disclosure of Health Concerns

Lansing Community College takes appropriate and reasonable precautions to protect the health and safety of students in the classroom. However, some courses may require students to work with chemicals and/or equipment which may be hazardous to some students, such as those with certain medical conditions. Students should inform instructors of any special health-related conditions which may be negatively affected by instructional materials or equipment used in the classroom. Students with special health concerns are strongly encouraged to raise any questions about such matters prior to their enrolling in a class.

Dress

Students are expected to dress in an appropriate fashion, having in mind the activity in which they are engaged, while on College property and when attending College-sponsored events. Specific attire, not limited to but including appropriate footwear, safety glasses, safety hats, shields and aprons, may be required when the health and safety of the individual student or other members of the College community are to be protected.

Drug and Alcohol Regulations

In recognition of (1) the serious health risks associated with the illegal use of controlled substances and (2) the abuse of alcohol, and in conformance with the Board of Trustees policies 4416 and 7820, as well as the Drug-Free Schools and Communities Act Amendments of 1989 (20 U.S.C. 3171, et.seq.), the following regulations are effective immediately:

- Students, employees, and guests may not manufacture, distribute, dispense, possess, or use alcoholic beverages on College premises.
- Students, employees, and guests may not unlawfully possess, use, or distribute controlled substances and alcohol on College premises or when engaged in College activities such as conferences or field trips.
- No College funds will be used for the purpose of purchasing alcoholic beverages or controlled substances.
- Being under the influence of alcohol or any controlled substance while on College premises or engaged in College activities is prohibited.
- 5. Students, employees, and guests are personally accountable for knowledge of federal, state, and local laws relating to alcoholic beverages and controlled substances, the minimum drinking age, transporting open containers of alcoholic beverages, and false representation of age by a minor.
- 6. As a condition of his or her employment, each employee of the College shall agree to abide by the terms contained within this policy. Violation of any of these terms by College employees may result in disciplinary action, up to and including termination. The College may require satisfactory participation in a substance or alcohol abuse assistance or rehabilitation program for an employee who violates any of the prohibitions listed above.
- As a further condition of his or her employment, each employee of the College shall agree to notify the College of any criminal drug statute con-
- viction for a violation occurring on College premises or while engaged in College activities, no later than five (5) days after such a conviction. Upon receiving notice of such conviction, the College shall take appropriate disciplinary action within thirty (30) days thereafter.
- 8. Violation of this regulation by students may result in disciplinary action up to and including expulsion from the College and referral for prosecution. A lack of legal conviction or relevant laws is not a defense in a charged violation of this regulation.
- Guests on College premises are expected to follow the above requirements. Failure to do so may result in a request to leave College property or College activities.
- In the spirit of providing a safe, healthy and drug-free environment, the College will:

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- Continue to offer educational programs that support a drug-free campus and workplace as a normative social value;
- b. Continue to offer opportunities for substance abuse counseling accessible by students and College employees;
- c. Continue to make referrals to appropriate counseling professionals and/or agencies within the community to help students and employees who may benefit from such counseling;
- d. Incorporate in classes throughout the curriculum, where appropriate, references and class-related assignments related to the medical, legal, social, and wellness issues inherent in a drug-free campus and workplace:
- e. Distribute copies of this regulation to all new students and employees.
- 11. Substance abuse is a serious but treatable condition or disease that can lead to short-term or long-term physical and psychological consequences, including but not limited to dependence, damage to the nervous system, heart and respiratory conditions, and death.
- 12. A "controlled substance" is defined as one: 1) which is not legally obtainable; 2) which is being used in a manner different from that prescribed; or
 3) which is legally obtainable but has not legally been obtained. (21 U.S.C.821:MCLA, 333.7101, et. seq.)
- 13. A "conviction" under this policy is defined as a defendant pleading guilty or no contest and/or a guilty finding by a court of law.

Examinations

Students are required to take examinations at the appointed time and place in order to receive credit for a course. Generally, examinations are given during the regularly scheduled class period during the last week of the semester.

Field Trips

Students participating in all College-sponsored activities, including field trips and athletic events, must abide by all College rules. Student organization field trips must be planned, organized, and approved according to the Student Life Policies and Procedures for Student Organizations, and, where applicable, the parking and transportation services unit of the Public Safety Department. Organizations which function outside of these policies and procedures may be put on probation and suspended if appropriate.

Fighting

Fighting on College property is prohibited except for contests or exhibitions held or sponsored by the College or a recognized College organization.

Financial Responsibility

Students owing money to the College in respect to such matters as fees, loans, library fines, driving or parking penalties, etc., will be subject to disciplinary action if such accounts are not paid when due. In particular, it should be noted that if any accounts are outstanding at the end of an academic semester, the publication of the student's grade report and/or official transcripts will be delayed, and the student will not be permitted to register for a succeeding semester until such accounts are paid.

Games and Recreational Activities

Games of any kind may only be played in the recreational or athletic facilities which have been designated for such games. Applications for permission to play any game other than in an area designated for that purpose must be obtained from the Director of Student Life.

Guest Speakers

College regulations with respect to the participation of guest speakers are outlined in the Policy for Guest Speakers. The College requires orderly conduct, noninterference with College functions or activities, and identification of the sponsoring groups or individuals. Under no circumstances are members of the College community to be forced to be involuntary audiences.

Identification Cards

. All Lansing Community College students are issued an identification card.

Students are expected to show their current I.D. card whenever they check out books at the College libraries, use the Abel B. Sykes TLC Computer Lab, etc., or when they are requested by a member of the faculty or staff of the College. Misuse of College identification to obtain privileges to which the student or to which others are not entitled under existing regulations is a College offense that may result in suspension or dismissal.

Laws

Students shall obey the laws enacted by federal, state, and local governments. It is appropriate that the students be aware of Act 26 of the Public Acts of 1970:

Sec. 1. A person is guilty of a misdemeanor, punishable by a fine of not more than \$500.00, or by incarceration in the county jail for not more than 30 days, or both:

- When the chief administrative officer of a publicly owned and operated institution of higher education, or his or her designee, notifies the person that he or she is such an officer or designee and that the person is in violation of the properly promulgated rules of the institution; and
- 2. When the person is in fact in violation of such rules; and
- 3. When, thereafter, such officer or designee directs the person to vacate the premises, building, or other structure of the institution; and
- 4. When the person thereafter willfully remains in or on such premises, building, or other structure; and
- When, in so remaining therein or thereon, the person constitutes:
 a. A clear and substantial risk of physical harm or injury to other persons
 - or of damage to or destruction of the property of the institution, or b. An unreasonable prevention or disruption of the customary and lawful functions of the institution, by occupying space necessary therefore or by use of force or by threat of force.

Sec. 2. A person is guilty of a misdemeanor, punishable by a fine of not less than \$200.00 and not more than \$1,000.00, or by incarceration in the county jail for not more than 90 days, or both, who enters on the premises, building, or other structure of a publicly owned and operated institution of higher education, with the intention to, and therein or thereon does in fact, constitute (a) a clear and substantial risk of physical harm or injury to other persons or of damage to or destruction of the property of the institution, or (b) an unreasonable prevention or disruption of the customary and lawful function of the institution, by occupying space necessary therefore or by use of force or by threat of force.

Sec. 3. This act shall take effect August 1, 1970.

Obstructing and Jostling

Obstructing or threatening to obstruct College property without authorization/permission from a College official is prohibited. (To obstruct is to impede free and uninterrupted passage or free and uninterrupted use of College property): Jostling or roughly crowding other persons on College property is also prohibited.

Organizations

No student or student organization may use campus facilities, solicit funds, business, or support on the College campus unless such a student or student organization has been authorized by the Director of Student Life. Approval of College clubs and organizations must be in accordance with guidelines documented in the Student Life Office.

Pets

In order to protect the health and safety of the members of the College community and preserve order on the campus, no pets, including but not limited to, dogs, cats, birds, and rodents shall be permitted within the buildings of Lansing Community College. This is not intended to exclude Seeing Eye dogs used by the visually impaired or animals designated for laboratory experimentation purposes.

Plagiarism

Each student is expected to be honest in his or her work. Plaglarism is dishonest. Plaglarism includes, but is not limited to, the use, by paraphrase or direct quotation, of the published or unpublished work of another person without full and clear acknowledgment. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers and/or other academic materials.

Records

It is the responsibility of the student to give honest and complete replies to all questions included in application forms and other documents required by the College. Alteration, duplication, or falsification of a College document, form, or authorized signature is considered by the College to be an extremely serious offense and is subject to disciplinary action.

Smoking

Lansing Community College is a "Smoke-Free" and "Tobacco-Free" zone. No smoking or the use of a tobacco product is permissible on Lansing Community College property, including in any building, facility, or structure and on real estate that is owned or leased. This policy applies to all persons, including all students, staff and visitors.

Student Evaluation of Instructional Quality

Because students expect quality in their learning experiences, Lansing Community College provides opportunities for students to participate in the evaluation and improvement of instruction. These opportunities include the following:

- Periodically completing Student Evaluation Forms at the conclusion of courses. The forms are distributed by a person other than the instructor, and the instructor is not present at the time the students complete the forms.
- 2. Serving on various councils, boards, and committees of the College in order to provide input and student perspective in the development and evaluation of both instructional and support-service programs. These councils, boards, and committees are located in the various divisions of the College. Those students who have interest in serving on or contacting members of these bodies may contact the Student Life Office or the office of the dean in the appropriate divisions.

Specific questions regarding student participation in the evaluation of instruction may be directed to the Office of the Dean of Student and Academic Support for clarification or appropriate referral.

Vandalism/Theft

Property of the College, as well as that of individuals, should be respected. Vandalism or theft of any kind, the destruction or mutilation of computer or media resources, materials, equipment, buildings, or grounds of the College, is inconsistent with the objectives of the College and good citizenship and will result in disciplinary action.

Video Cassette

The federal copyright law, Title 17 of the United States Code, provides copyright protection of "original works of authorship," including "motion pictures and other audiovisual works." Thus, the use of video cassettes and films is restricted to private showings, and public showings are prohibited without the copyright owner's consent. Under the "fair use" limitation, copyrighted oassettes, motion pictures, and other audiovisual works may be used for purposes such as "teaching (including multiple copies for classroom use), scholarship, or research" without violation, and audiovisual materials purchased or rented by the College have the written consent of the copyright owners and, therefore, are legally appropriate for classroom use.

Weapons and Explosives

The possession of weapons, or explosives on the property of Lansing Community College is prohibited. The definition of a weapon includes but is not limited to a pistol or other firearm or dagger, dirk, razor, stilletto, or knife having a blade over 3 inches in length, or any other dangerous or deadly weapon or instrument.

"College Property" covered by this policy includes, without limitation, all College owned or leased buildings and surrounding areas such as sidewalks, driveways and parking lots under the College's ownership or control. College vehicles are covered by this policy at all times regardless of whether they are on College property.

CRIMINAL AND/OR CIVIL ACTIONS

When the actions or conduct of a student warrant the involvement of the Public Safety Department, a complaint report is initiated. Should a student initiate the complaint and the Public Safety Department is involved, a complaint report is taken. A crime committed on the College campus is investigated and referred to the Ingham County Prosecutor's Office. The decision to prosecute is made by the Prosecutor's Office. This action is separate from the Due Process procedure of the College

DUE PROCESS

Lansing Community College holds firm to the philosophy that matriculation in college does not deny any rights of citizenship to a student. At the same time, matriculation in college does not relieve a student of the essential responsibilities of citizenship. Thus, the College is constantly aware of the joint responsibilities, shared by the student body and the College, to uphold the principles of "due process" malt disciplinary action.

It is the College's intention to foster and promote an environment of cooperation among faculty, staff, and students. However, conflicts that require third-party intervention sometimes exist. While there are formal processes for resolving conflicts, it is the goal of the College to achieve resolution as rapidly and as close to the origin of conflict as possible through mediation. To this end, the Director of Student Judicial Affairs and the Director of Equal Opportunity are empowered to mediate situations at their lowest level or to direct the parties involved to the person(s) or department(s) that can best mediate the occurrence. This mediation is predicated on the voluntary agreement of both parties. Matters that are considered too extreme may require immediate referral to the formal process.

Due Process is the guarantee of student civil rights under the Constitution of the United States and the laws and regulations of Michigan and Lansing Community College. Due Process is that process which prevents rights from being taken away from an individual without a fair hearing. Any questions regarding Due Process should be directed to the office of Director of Student Judicial Affairs at (517) 483-1163.

Student Appeals and Complaints

LCC students may initiate Due Process through established appeal and complaint procedures. In the appeal process, students may appeal disciplinary action or academic decisions. In the complaint process, students may lodge complaints regarding persons, policies, or procedures at the College. The Judicial Board will hear cases referred to it by administrative officers of the College or by individual students through the established appeal and complaint processes. The student has he right to request a public or private hearing, but the decision rests with the College, after considering the visites of the parties involved.

Student Appeals

A "fine of appeal" is defined as the appropriate sequence of communication to be ionowed when appealing a decision or action. An "appeal" is defined as a request to review a previous decision and/or the process used in reaching the decision. Before initiating the formal appeal process at the divisional level, students are ancouraged to first meet with the initial decision-maker involved (the instructor, for example) to attempt to resolve issues in an informal manner. The following describes a recommended sequence of communication for resolving issues in an informal manner:

- The student may speak with the person who initiated the decision or action in guastion and request a reconsideration,
- 2 If the student is not satisfied with the resolution proposed by the person who mitiated the decision or action, he or she may speak with the head of the department in which the decision or action in question was initiated and request assistance in resolving this issue.
- 3. If the student is not satisfied with the resolution proposed by the head of the department, he or she may speak with the dean (or his or her designee) of the division in which the decision or action in question was initiated and request assistance in resolving the issue.
- 4. If the student is not satisfied with the resolution proposed by the dean or the dean's designee, he or she may speak with the Director of Student Judicial Affairs (or his or her designee) and request assistance in resolving the issue.

If the student believes he or she is being treated unfairly at any point in the informal process, the student may begin the formal appeal process of the College. The line of formal appeal to be followed will depend upon the type of case involved. In all cases, students are required to state their appeal in writing at the time they begin the formal appeal process. The following describes the different types of cases and the appropriate lines of appeal to be used in each case.

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1. Student Appeal of Disciplinary Action for Violation of General Rules and Regulations

When a student is accused of violating general rules and regulations of the College, except those involving academic rules and regulations, the procedures described below will be followed:

The student will receive written notification that an alleged violation has occurred. In the letter: the student will be directed to make an appointment with the appropriate College official to review the facts concerning the alleged violation in order to determine if formal charges should be prepared. In the event that the student fails to contact the appropriate College official within 10 (ten) class days of receiving written notification (excluding Saturday and Sunday), a "hold" will be placed on the student's record which will result in the student's enrollment being delayed.

If a decision is made to prepare formal charges, the student shall be notified by an appropriate College official that he or she is being accused of violating a regulation and that he or she may elect to do one of the following:

- The student may admit the alleged violation and request, in writing, that the administrative officer take whatever action seems necessary;
- b. The student may admit the alleged violation and request a hearing before the Judicial Board regarding the discipline imposed;
- c. The student may deny the alleged violation, in which case the administrative officer shall refer him or her to the Judicial Board.

When formally appealing a disciplinary action based on a violation of general rules and regulations of the College (explosives, alcoholic beverages, or mistreatment of college property, for example), the student shall use the following line of appeal:

- a. The Director of Student Judicial Affairs (or his or her designee);
- b. The Judicial Board of the College;
- c. The President (or his or her designee).
- Examples of disciplinary action include the following:
- Reprimand
- Probation
- Restrictions on activities or privileges
- Requirements of restitution
- Denial or revocation of a College honor or degree
- Suspension
- Dismissal
- Permanent dismissal

NOTE: At each level of the appeal process, a student will have up to 10 (ten) calendar days (excluding Saturday and Sunday) to appeal a decision after notification of that decision at a prior level.

2. Student Academic Appeals (of Grades, of a Violation of Academic Rules and Regulations, or of Academic Disciplinary Action)

When formally appealing an academic decision or action---such as a grade, an academic charge based on a violation of the academic rules and regulations (cheating or plagiarism, for example), or an academic disciplinary action (loss of credit, for example)---the student shall use the following line of appeal:

- a. The dean of the division involved (or his or her designee)
- b. The Judicial Board of the College
- c. The President (or his or her designee)

NOTE: At each level of the appeal process, a student will have up to 10 (ten) calendar days (excluding Saturday and Sunday) to appeal a decision after notification of that decision at a prior level. When a student wishes to appeal a grade, he or she must do so by the end of the sixth week of the following semester or summer session.

3. Student Appeal of Administrative Withdrawal from Classes (for Nonattendance, Lack of Course Prerequisites, or Inappropriate Classroom Behavior)

Whenever the Office of the Registrar receives a recommendation for an administrative withdrawal, the Office of the Registrar will notify the student in writing that he or she is being administratively withdrawn. The lines of appeal for administrative withdrawal decisions are as follows:

- a. The dean of the division involved (or his or her designee)
- b. Judicial Board of the College
- c. President (or his or her designee)

NOTE: In cases of administrative withdrawal, a student will have up to 5 (five) calendar days (excluding Saturday and Sunday) to appeal a decision after notification of that decision at a prior level.

Students have the right to request correction or amendment of information on educational records that are inaccurate, misleading, or which violate privacy rights or other rights as stated in the Family Education Rights and Privacy Act of 1974, as amended. The student shall use the following line of appeal:

- The director or leader of the department responsible for the record (or his or her designee)
- b. The dean of the division involved (or his or her designee)
- c. The Judicial Board of the College
- d. The President (or his or her designee)

If the request for correction or amendment of information is denied after the appeal process has been completed, the student may place a brief statement in the record commenting on the decision of the College.

NOTE: A student will have up to five (5) calendar days (excluding Saturday and Sunday) to appeal a decision after notification of that decision at a prior level.

Student Complaints

Before initiating the formal appeal process at the divisional level, students are encouraged to first meet with the initial decision-maker involved (the instructor, for example) to attempt to resolve issues in an informal manner. When a student wishes to lodge a formal complaint regarding a person—except in cases of sexual harassment/discrimination (which is found in this catalog under *Student and Staff Sexual Harassment and Discrimination*)—the student is encouraged to use the following line of appeal:

- a. The dean of the division involved (or his or her designee)
- b. The Judicial Board of the College
- c. The President (or his or her designee)

NOTE: At each level of the complaint process, a student will have up to 10 (ten) calendar days (excluding Saturday and Sunday) to appeal a decision after notification of that decision at a prior level.

Judicial Board

Due Process is the guarantee of student civil rights under the Constitution of the United States and the laws and regulations of Michigan and Lansing Community College. Due Process is that process which prevents rights from being taken away from an individual without a fair hearing. The student has the right to request a public or private hearing, but the decision rests with the College, after considering the wishes of the parties involved.

The Judicial Board shall hear the case and render a decision,

- Prior to a Judicial Board hearing, the student shall be entitled to the following:
 a. Written notification of the time and place of the hearing;
- b. A written statement of a decision rendered and/or charges so that the student may prepare his or her defense;
- c. Written notification of the names of the witnesses directly responsible for having reported the alleged violation OR written notification of how the alleged violation came to the College's attention.
- In hearings involving more than one student, the Chairperson of the Judicial Board, at his or her discretion, may permit the hearings concerning each student to be conducted separately.
- 3. The student shall be entitled to appear in person and present his or her defense to the Judicial Board and may call witnesses on his or her behalf. The student may waive the right to appear before the Judicial Board. Should he or she elect not to appear, the student shall be considered to have waived the right to appeal, and the decision at the prior level stands.
- 4. The student shall be entitled to be accompanied by a person of his or her choice. If this person is in the form of legal counsel, the student must notify the Office of the Director of Student Relations at least 10 (ten) days prior to the scheduled hearing date.
- 5. The student has the right to be assisted by any advisor he or she chooses, at his or her own expense. The advisor may be an attorney. The student is responsible for presenting his or her own case and, therefore, advisors are not permitted to speak or to participate directly in any hearing before a Judicial Board.
- 6. All procedural questions are subject to the final decision of the chairperson of the Judicial Board.
- Admission of any person to the hearing shall be at the discretion of the Chair of the Judicial Board.
- 8. The student shall be entitled to an expeditious hearing of his or her case.
- The student shall be entitled to receive the decision of the Judicial Board in writing.

- 10. The College shall make a record of the hearing. The record shall be the property of the College.
- 11. A student who wishes to contest the decision of the Judicial Board may request that the President of the College (or his or her designee) review the decision of the Judicial Board. The student must request this review within 10 (ten) scheduled class days (excluding Saturday and Sunday) of notification of the Judicial Board's decision. Decisions rendered by the President (or his or her designee) will be final.

The Judicial Board's determination shall be made on the basis of whether it is more likely than not that the earlier determination is appropriate. Decisions rendered by the Judicial Board will be made by a simple majority vote of the total membership of the Judicial Board. Decisions rendered by the Judicial Board will be final unless appealed to the President. In addition, the Judicial Board is empowered to make recommendations based on decisions rendered,

Membership of the Judicial Board

The Judicial Board will consist of the following members:

- The Director of Student Judicial Affairs or his or her designee; (NOTE: This member will serve as chairperson. However, when the Judicial Board is hearing an appeal based on a disciplinary decision of the Office of the Director of Student Judicial Affairs, the Director of Student Judicial Affairs will relinquish the chair, and a temporary chairperson will be appointed.)
- 2. One College administrator appointed by the Director of Student Judicial Affairs
- 3. Two students from the student body, selected by the members of the Leadership Academy, with consent of the Director of Student Life. One alternate will be appointed in the same way to serve in the absence of any student member
- 4. Two faculty members appointed by the dean of the division in which the decision or action in question was initiated, with one alternate faculty member appointed in the same way, to serve in absence of any faculty member.
- In the event two or more divisions are involved, one faculty representative from each division and an equal number of student representatives will be in attendance.

Regulation Revisions and Additions

Lansing Community College reserves the right to change or add to the rules and regulations at any time.

EQUAL OPPORTUNITY AND NONDISCRIMINATION POLICY STATEMENT

I. Purpose

Lansing Community College is committed to a policy of providing equal employment opportunity and equal education for all persons regardless of race, color, sex. age, religion, national origin, creed, ancestry, familial status, marital status, height, weight, sexual orientation, disability or veteran's status or other status as protected by law.

Equal employment opportunity is a legal, social and economic responsibility of the college and is provided in accordance with applicable federal and state laws and Lansing Community College policy. The college policy and practice at all levels assures the active and positive implementation of federal and state equal employment opportunity laws, executive orders, rules and regulations and College equal employment opportunity policies and guidelines.

The college prohibits retaliation or reprisals against any individual because she/he has filed a compliant or report, participated in an investigation, or otherwise opposed unlawful discrimination.

II. Scope

This nondiscrimination policy applies to admissions, employment, access to and treatment in the college programs and activities. This policy applies to all persons employed by LCC, enrolled as a student, seeking admission to the college and/or requesting employment at or having contracts with the College.

III. General

The College is committed to and reaffirms support of equal opportunity in employment, education and non-discrimination in employment and academic policies, practices and procedures and will examine periodically all employment and academic policies for discrimination on the basis of race, color, religion, sex, national origin, creed; ancestry, familial status, age or disability, marital status, height, weight, sexual orientation, disability or veteran's status or other protected status and take remedial action to correct such discrimination if it is found to exist.

The College values diversity and seeks talented students, faculty and staff from diverse backgrounds. The College does not discriminate in the administration of educational policies, programs or activities; admissions policies; scholarship and loan awards; athletic, or other college administered programs or employment.

IV. Responsibility

The College's Director of Equal Opportunity and Diversity Programs (517) 483-5232 is responsible for preparing procedures to implement this policy.

Failure to follow this policy may result in disciplinary action up to and including termination or expulsion.

HARASSMENT PREVENTION

I. Purpose

Lansing Community College is an Equal Opportunity Employer and does not condone unlawful discrimination or related harassment on the basis of race, color, sex, age, religion, national origin, creed, ancestry, familial status, disability, marital status, height, weight, sexual orientation, or veteran's status in any employment or educational opportunity. Such harassment is unlawful and expressly prohibited, and the College will make all reasonable efforts to prevent it.

II. Scope

This policy applies to all persons who are employed at the college as well as all students.

III. General

General discriminatory harassment is any conduct which, has the purpose or effect of unreasonably interfering with an individual's work or education performance, or of creating an intimidating, hostile, or offensive environment for work or learning.

Sexual harassment has been more specifically defined by state and federal law, and regulations to generally mean unwelcome attention of a sexual nature from someone in the workplace or classroom that substantially interferes with work or academic performance. It may include, but is not limited to, sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature when:

- A. Submission to or rejection of such conduct is made either explicitly or implicitly a term or condition of an individual's employment, academic standing or status in a course, participation in a program or activity or other term or condition of employment or education:
- B. Submission to or rejection of such conduct is used as the basis for evaluating or impacting academic or employment conditions affecting a person; or
- C. Such conduct has the purpose or effect of unreasonably interfering with an individual's work or education performance, or of creating an intimidating, hostile, or offensive environment for work or learning.

Examples of Harassment

Prohibited or unlawful harassment may take many forms. The following types of conduct are given as examples of harassment:

- Physical assault;
- Direct or implied threats that submission to sexual advances will be a condition of employment, work status, promotion, graduation, or letters of rec-
- . ommendation;
- Direct unwelcome propositions of a sexual nature;
- Unwelcome pressure for sexual activity;
- A pattern of conduct (not legitimately related to the appropriate subject matter of a course if one is involved) intended to discomfort or humiliate, or both, that includes one or more of the following: Comments of a sexual nature; or
 - Sexually, racially, or discriminatory explicit statements, questions, jokes, or anecdotes;
 - A pattern of conduct that would discomfort or humiliate (or both) a reasonable person at whom the conduct was directed that includes one or more of the following: unnecessary touching, patting, hugging, or brush-

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ing against a person's body;

 Insults or slurs based upon one's race, sex, ethnic origin, disability, relicion, etc.

NOTE: The list above is not considered to be exhaustive or exact; rather, it contains illustrative potential examples of prohibited harassing behavior.

Complaints of Discrimination

All complaints of harassment prohibited by this policy must be reported. When allegations of harassment are made, the Office of Equal Opportunity and Diversity Programs will conduct a fair and objective investigation. If the allegations of harassment are substantiated, the college will take prompt and appropriate corrective action.

Allegations of harassment will be dealt with promptly and appropriately. Where it is found to occur, appropriate correction action, including appropriate disciplinary measures, will be taken. We encourage students and staff to utilize LCC's complaint process. However, multiple avenues for resolution and redress are available, including filing a complaint with the Michigan Department of Civil Rights, the Equal Employment Opportunity Commission, or other appropriate government agency.

Anyone who experiences harassment prohibited by this policy, or becomes, aware that such harassment is directed toward another person should report it using the College's harassment Complaint Process or by reporting the harassment to the Human Resources Department and/or the Office of Equal Opportunity and Diversity Programs.

Prevention of prohibited harassment is the responsibility of all employees. However, managers, supervisors, and faculty must set the example in treating all students, employees, and persons connected to Lansing Community College with mutual respect and dignity, in fostering a positive climate for learning and working, refraining from unprofessional conduct, and in taking appropriate action when conduct is disruptive, provoking, discriminatory, or otherwise unprofessional.

IV. Responsibility

The College's Director of the Office of Equal Opportunity and Diversity Programs is responsible for preparing procedures to implement this policy. Engaging in conduct, which constitutes prohibited harassment, may result in disciplinary action up to and including termination.

V. Where To File A Complaint

Any employees or students who believe that discrimination has occurred against themselves or others are urged to report the matter as soon as possible to:

- Director, Equal Opportunity and Diversity Programs
- Lansing Community College
- Mail Code: 1110
- 2376 Gannon Vocational-Technical Center
- (517) 483-5232 Office
- (517) 483-9823 Fax

The Director of Equal Opportunity and Diversity Programs serves in the role as lead investigator of complaints of discrimination. The Director also serves as the campus Title IX, ADA and 504 Coordinator and can be reached at (517) 483-5232.

Students may file non-discrimination complaints, allegations of harassment and appeals with the Director of Student Relations. The college's appeal process for non-discrimination complaints will be utilized to resolve these matters. For copies of the appeal form or further information contact:

Director. Student Relations

- Lansing Community College
- Mail Code: 1000
- 211 Student Personnel Services Building
- (517) 483-1764 Office
- (517) 483-1629 Fax

Failure to follow this policy may result in disciplinary action up to and including termination or expulsion.

AMERICANS WITH DISABILITY ACT, REASONABLE ACCOMMODATIONS AND SECTION 504 OF THE REHABILITATION ACT

1. Purpose

Lansing Community College is committed to providing and maintaining a barrier-free environment so that individuals with disabilities can fully access employment, programs, services, and all activities of the college.

The college prohibits retaliation or reprisals against any individual because she/he has filed a complaint or report, participated in an investigation, or otherwise opposed unlawful discrimination.

College

www.lcc.edu

II. Scope

This policy applies to all persons seeking reasonable accommodations from the college.

III. General

- A. Students who are seeking classroom and academic accommodations should be directed to the Office of Disability Support Services (ODSS) Staff. The ODSS staff also serves as a resource for answering questions that LCC faculty and staff have when working with students with disabilities.
- ODSS is located in the Counseling Services Department, 2300 GVT and can be contacted by calling (517) 483-1904.
- Students alleging discrimination based on a disability and/or failure to accommodate a disability should be directed to the Director of Equal Opportunity and Diversity Programs (Director of EODP).
- B. Faculty and staff at Lansing Community College shall follow these three steps to request an accommodation:
 - The faculty and staff must self-identify himself/herself to the Director of EODP as a person with a disability,
 - 2. The faculty and staff should make a written request to the Director of EODP for an accommodation, and
 - The faculty and staff must provide appropriate documentation of his or her disability and the need for an accommodation if so requested by the College.
 - Nothing in this document shall be construed to waive the College's right to contest whether an employee or applicant is disabled or is entitled to an accommodation.

Employees may self-identify as a person with a disability. Self-identification as a person with a disability alone is not sufficient to obtain an accommodation. Rather, the appropriate procedures must be followed to request and, if appropriate, obtain an accommodation.

C. Requests For Accommodation

A person with a disability may or may not need an accommodation. If a faculty or staff member believes that he/she needs an accommodation, he/she may request an accommodation by completing a Faculty/ Staff Request for Accommodation form (Attachment A) and an Employee Medical/Documentation form (Attachment B). (Documents A and B may be obtained in the Office of Human Resources or the Office of EODP).

D. Medical Documentation

At any time during the accommodation request process, the College may ask the faculty or staff member for documentation (or additional documentation) of the disability and/or of the need for an accommodation. The faculty or staff will be required to provide that documentation.

E. Confidentiality

Medical documentation, as well as Faculty/Staff Request for Accommodation forms, will be maintained in a separate, confidential file apart from the main personnel file(s). Such documentation will be kept confidential, except as necessary to administer the accommodation process. Accordingly, such documentation will be shared only with those individuals involved in the accommodation process, on an as needed basis, except as otherwise authorized by law.

F Supervisor

When a faculty or staff member approaches his/her supervisor with a request for accommodation, the supervisor should discuss the need for accommodation with the employee. In addition to discussing the specific accommodation requested by the employee, the supervisor should discuss other possible accommodations and assess the effectiveness each would have in allowing the employee to perform the essential functions of the position.

The faculty or staff and the supervisor should discuss the following issues:

- 1. The essential job functions;
- The faculty or staff's ability to accomplish essential job functions with or without a reasonable accommodation; and,
- If an accommodation is needed, possible types of reasonable accommodation.
- The supervisor should not request information regarding:
- 1. How the employee became a person with a disability,
- 2. Disabilities for which the employee is not seeking accommodation, or
- 3. Information, which is unrelated to whether, the person has a disability or what accommodation is needed.

The supervisor should make sure the employee has completed the appropriate request and accommodation forms. These forms should be forwarded to the Office of Equal Opportunity and Diversity Programs. The Director of EODP will review the request with the employee, supervisor, and Human Resources Representative. What constitutes a reasonable accommodation will vary depending on the circumstances of each case. In evaluating alternatives for accommodation, the preferences of the employee will be considered, but the ultimate decision regarding what type of accommodation, if any, will be provided is made by the College.

- G. Office Of Equal Opportunity And Diversity Programs
 - The Director of Equal Opportunity and Diversity Programs (EODP) maintains records of accommodations made for persons with a disability. The Director is available for consultations with faculty, staff or supervisors who are making assessments of accommodation requests. In cases where a requested accommodation involves action or expenses beyond the supervisor's authority or in cases in which the faculty, staff and supervisor cannot agree on an accommodation, the College may do the following:
 - 1. Identify additional alternatives;
 - 2. Gather necessary medical documentation;
 - Where appropriate, gather cost or other technical impact information from resources including:
 - The department and/or employee,
 - Physical Plant Office,
 - The Human Resources Office,
 - The EEOC, Department of Justice, or
 - Rehabilitation agencies;
 - Evaluate whether any accommodation is needed and, if it is, whether an accommodation is reasonable and should be made (this evaluation may include preparing cost estimates);
 - 5. Recommend a reasonable accommodation, if appropriate;
- 6. Discuss the recommendation with the department/unit;
- Obtain appropriate funding for the accepted accommodation, if needed; and/or
- 8. Follow up on approved requests.
- H. Appeals

If an employee disagrees with the department's accommodation determination, the employee may appeal the determination to the ADA Coordinator (who serves as the Director of EODP) in the Office EODP. I. Retaliation

Retallation against an employee or applicant who requests an accommodation is prohibited. Individuals who feel that they have been retallated against may contact the ADA Goordinator in the Office of EODP.

J. Responsibility

The Office of Human Resources works with the Department to facilitate placement of employees with work restrictions and/or in rehabilitation situations. Such placements may exceed the College's legal duties under the ADA, the MPDCRA and/or the Rehabilitation Act. The nature of the relevant work restrictions may be shared with employing departments so that appropriate discussions about placement can take place. The College does not guarantee such placements nor does it waive its right to limit its responsibility to accommodate a person with a disability to the duties imposed by the applicable state and federal statutes.

The College's Director of the Office of Equal Opportunity and Diversity Programs (517/483-5232) serves as the ADA Coordinator. The Director is responsible for preparing procedures to implement this policy.

Failure to follow this policy may result in disciplinary action up to and including termination or expulsion.

STUDENT LIFE PROCEDURES

POSTER REGULATIONS FOR STUDENTS AND STUDENT ORGANIZATIONS

Lansing Community College is continually sensitive to the fact that there is a need for students, staff, and offices to communicate regarding various activities, events, and services. The College is also sensitive to the right of freedom of expression, particularly as provided for in the First Amendment of the Constitution of the United States. At the same time, the College is responsible for providing reasonable procedures and regulations to protect public and private property, and pro-

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vide for the general safety and welfare of all members of the College community, and which preclude disruption of the normal functions of the College.

The following statements are designed to regulate the use of posters within the College facilities while providing students, College personnel, and College properties reasonable protection from commercial exploitation and court suits. While the courts have said that College property is considered a "public trust," these same courts have ruled that College property is not "public property" subject to unregulated use by any and all individuals. This regulation is designed to facilitate communication through the use of posters while complying with the legislated instructional mission of the College.

DEFINITION: A poster is any written communication designed to apply to a wall or other surface for the purpose of relating information about an event, service, idea, or activity. A poster may be in the format of, but not limited to, a sign, an announcement, or banner.

General Poster Regulations

- Within any and all buildings, placement of all signs and posters is restricted to approved buildings.
- Each poster must identify the sponsoring organization, department, or individual (no abbreviations). Each poster must display a telephone number or an office location where more complete information can be obtained.
- 3. Each poster is required to have in the lower left-hand corner, its posting date (month, day, and year) and, in the lower right-hand corner, its date (month, day, and year) to be removed. Each poster should be up for a reasonable length of time depending upon the activity.
- 4. Designated bulletin boards are available in each building for the posting of student and staff personal notices. All student and staff personal notices will be confined to these designated bulletin boards.
- 5. A poster shall not exceed 18 inches by 24 inches.
- No poster shall be placed in such a way that it covers all or part of a previously posted approved poster whose take-down date has not expired.
- The removal of posters at or prior to the take-down date shall be the responsibility of the sponsoring organization or individual. Unauthorized individuals shall remove no posters prior to the take-down date.
- 8. Lansing Community College respects the constitutional rights of freedom of expression. There are, however, responsibilities, which are attendant to the exercising of these constitutional rights. The following statement is made to provide an operational balance between the rights and responsibilities of the freedom of expression regarding the contents of posters: The content of posters shall avoid the liabilities of libel; obscenity; invasion of privacy; and incitement of disorder, violence, and disruption of the normal operation of the College.
- Students and student organizations wanting to post posters must gain approval in the Office of Student Life for compliance with general regulations.
- 10. College staff and faculty must gain approval in their departmental office or from the office of their administrative supervisor.
- 11. Student and College staff personal notices placed in designated bulletin boards within the College buildings do not need approval. Examples of personal notices are selling used books, sharing a ride, sharing an apartment, and selling personal articles. Profit-making commercial notices are not con-
- sidered personal and will be removed.

Student or Student Organization Appeal of Poster Denial or Removal

If a student or student organization feels that a denial of posting or removal of a poster infringes upon their First Amendment rights or is in violation of this regulation, an informal appeal may be made by the poster sponsor to the Director of Student Life. A meeting will be held between the appealing poster sponsor or sponsors with the Director of Student Life to discuss the appeal. If the appeal is not, resolved, a formal appeal may be presented to the Director of Student Relations. This appeal must be in writing, must indicate the reason(s) for the appeal, and must be dated and signed by the appealing party. The Director of Student Relations will gather information and respond to the appealing party within five (5) days of receipt of the appeal. If the student or student organization is not satisfied with the response of the Director of Student Relations, a second written appeal may be made to the Director of Student Relations. This written appeal must contain the reason(s) for the appeal, and a copy of the poster must be made available to the Dean of Student and Academic Support Division for review. The appeal to the Dean of Student and Academic Support Division must be dated and signed by the appealing party. The Dean of Student and Academic Support Division will gather information and respond to the appealing party within five (5) days of receipt of the

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appeal, giving the decision rendered and reason(s) therefore. The decision of the Dean of Student and Academic Support Division shall be final.

Failure to comply with the above regulations will lead to the denial of approval, the removal of posters, and/or disciplinary action. In order to protect the student body, individual members of the College community and the resources of the College, the College reserves the right and accepts the responsibility to deny approval or remove any poster or posters which it believes to cause significant disruption of the normal function and operation of the College.

Poster Regulations for Off-Campus Organizations and Individuals

Lansing Community College is sensitive to the fact that there is a need for some off-campus organizations and individuals involved in non-commercial enterprises to communicate with Lansing Community College students and staff members concerning various activities, events, and services. The College is also sensitive to the right of expression, particularly as provided for in the First Amendment of the Constitution of the United States. At the same time, the College is responsible for providing reasonable procedures and regulations to protect pubfic and private property and providing for the general safety, welfare, and positive learning environment for all members of the College community.

Therefore, the College has provided a klosk, centrally located on the downtown campus, for the use of noncommercial groups and individuals who are not affiliated with the College. Such groups and individuals may place their posters on this klosk without seeking prior approval from any College office, and the College disclaims any and all responsibility for items posted.

REGULATIONS FOR USE OF STUDENT LITERATURE TABLE

Lansing Community College is continually aware of and supportive of the concepts of freedom of expression, particularly those provided by the First Amendment of the Constitution of the United States. The College also perceives that one of its functions is to provide a wide range of learning experiences and learning opportunities for the students of the College. At the same time, the College is mandated to provide orderly processes that avoid material disruption, protect public and private property, and provide for the general safety and welfare of students, faculty, and College staff.

The following statements are designed to facilitate student distribution of literature within the College facilities, while providing students and College personnel and property reasonable protection from commercial exploitation and legal actions. Court rulings have determined that College buildings, while considered a public trust, are not considered public property subject to unregulated use by any and all individuals. The procedural regulations below are designed to facilitate the legislated instructional mission of the College to serve the citizens of the College community. The following procedural regulations shall be followed:

- The distribution of literature within College buildings by students shall be limited to student literature tables made available for such distribution. Student literature tables will be made available in the following areas within the College buildings:
 - a. In the entry lobby outside the second floor cafeteria of the Arts and Sciences Building.
 - b. In the second floor lobby of the Gannon Vocational-Technical Center.
 - c. In the second floor lobby area of the Old Central Building.

At least two single tables will be available in each of these areas. The maximum number of tables made available in any area will be determined in a reasonable manner based on the use of the area and regulations regarding fire safety and student welfare.

- Only registered students and College-recognized student clubs and organizations shall have access to the student literature tables. Non-students who wish to use college facilities must gain permission by following procedures established for this purpose through the Student Life Office.
- 3. The student literature tables will be available Mondays through Thursdays from 8 A.M. to 10 P.M. and Fridays 8 A.M. to 5 P.M. during the days of regularly acheduled semissters.
- 4. Registered students and College-recognized clubs and organizations are required to register for the use of the student literature tables with the Student Life Office at least 72 hours prior to the time of desired use. Registrations will be accepted on a first request-first serve basis. Individual students and recognized student clubs or organizations may register for the use of a table for three consecutive days. If there are no pending requests, a registration may be renewed at the end of a previous registration. If there are no pending requests, a recognized student club or organization may

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request the use of more than one table or more than one location. If during the use of multiple tables or locations, additional students or recognized student groups request the use of a table or location and additional tables or locations are not available, the multiple user or users will be required to give up the multiple use of tables and locations to provide for the new request.

- A copy of the completed registration form obtained from the Student Life Office must be available at the student literature table while distribution is taking place.
- 6. In order to determine accountability, a sample of the material to be distributed must be placed on file with the Student Life Office at the time of the registration for use. In addition, a recognized student club or organization must have a copy of the material to be distributed on file with the club's or organization's advisor.
- 7. The student literature table will be staffed at all times by the individual student or members of the recognized student club or organization registered for the use of the tables while the distribution of materials is taking place. The registered student or recognized club or organization will have the responsibility to ensure that the distribution process is orderly at all times and that the general area surrounding the student literature tables is not literad.
- 8. Individuals shall have the option to pick literature from the tables or receive a copy from the individuals sitting at the tables. No literature shall be forced upon any individual nor shall there be any obstructions created in the path of the general flow of traffic.
- Individual students or recognized student clubs and organizations may collect funds for worthy causes, such as muscular dystrophy, blood drives, or College-sponsored activities. There shall be no commercial solicitations of funds or business, nor shall individual students solicit funds for personal gain.
- 10. The College has the right and responsibility to halt the distribution of literature, which it believes to be libelous, obscene, an invasion of privacy, or literature designed and reasonably believed that it will have the effect to cause immediate disruption of classes, violence, or substantial disorder of the normal operations of the College.
- 11. Failure to comply with the above procedural regulations may lead to the denial of the use of the student literature tables and/or may lead to disciplinary action.

STUDENT

LIFE

OFFICE

Literature Table Use Request Flow Chart

INDIVIDUAL STUDENT

- 1. Register for reservation for use of table.
- Have Director of Student Life review copy of literature.
- Place copies of literature on file in Student Life Office.
- 4. Have a copy of registration form at table while distributing literature.
- 5. Have table staffed at all times by individual student or student organization member.

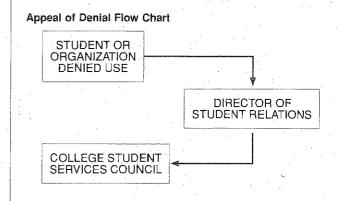
STUDENT ORGANIZATION

Appeal of Denial of Use of Literature Table

Any individual, registered student, or recognized student club or organization which has been denied access to the student literature tables or has been required to halt distribution based on procedure 10 may appeal the denial or requirement to halt distribution. The appeal shall be in writing and shall be directed to the Director of Student Relations within 10 calendar days of the denial or requirement to halt distribution. The Director of Student Relations shall make a prompt investigation of the appeal, contacting the parties involved, and shall, within 10 calendar days from the date of appeal, make a decision to reinstate the distribution rights denied or halted or to uphold the original decisions. If the decision of the Director of Student Relations is not satisfactory, the individual student or recognized student club or organization may appeal the decision to the College Student Services Council. This second appeal must be in writing and presented to the decision of the Director of Student Relations. The College Student Services Council within 10 calendar days of the decision of the Director of Student Relations of the Director of Student Relations appeal the decision to the college Scudent Services Council within 10 calendar days of the decision of the Director of Student Relations. The College Student Services Council shall make a prompt investigation of the papeal, contacting parties involved, and shall

within 10 calendar days from the date of the appeal, make a decision to reinstate the distribution rights or upholding the denial or required halt of distribution. The decision of the College Student Services Council shall be final.

Where it is contemplated that a violation of the student literature distribution procedural regulation warrants the imposition of disciplinary action upon an individual student, disciplinary action shall be taken in accordance with Due Process as outlined in the *Lansing Community College Catalog*.



COLLEGE RESPONSIBILITIES*

Lansing Community College is committed to providing an environment and resources, which promote student learning. All College employees contribute to this goal. Our commitment to learning is reflected by these responsibilities.

- 1. The College will maintain appropriate prerequisites so that students will enter courses with a reasonable chance of success.
- The College will provide facilities that are safe, secure, clean, and conducive to learning.
- The College will provide a clear and fair process for handling student complaints and concerns.
- 4. Faculty will be articulate and enthusiastic about their field and will establish a positive, stimulating learning atmosphere.
- 5. Faculty will prepare for each class; organize course concepts and present them clearly; exhibit comprehensive knowledge of the subject; teach the application of skills appropriate to course content; and make appropriate and timely use of student and instructional support services.
- Faculty will respect students as individuals, recognizing learning styles and managing student learning accordingly.
- Faculty will encourage classroom discussion when appropriate and represent various sides of an issue.
- Faculty will make a standard course syllabus available to students at the beginning of the semester, provide appropriate instructional materials and assistance, and meet classes at the scheduled times.
- Faculty will evaluate students fairly and objectively, maintain records of student achievement, and keep students informed of their progress.
- 10. Faculty will encourage students to think intelligently and independently.
- 11. Faculty will be available to assist students outside the classroom, including during regularly scheduled and posted office hours.
- 12. Faculty will know curriculum/program requirements and general career opportunities in their field. They will be able to advise students in their program area and refer students for academic and/or career counseling.

*SOURCES: Recommendations of the College-Wide Faculty Evaluation Committee: Current Agreement between the Board of Trustees and the Lansing Community College Chapter of the Michigan Association for Higher Education.

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STUDENT RESPONSIBILITIES

In order to be successful learners, students must assume an active role in the learning process. The student responsibilities listed below emphasize behaviors that contribute directly to student academic success, and they apply to all students enrolled at the College.

- Students will take responsibility for their own learning and for succeeding in their courses by:
 - a. Following course requirements as presented in course syllabi;
 - b. Attending all of their classes;
 - c. Preparing for classes and completing assignments on time;

 Contacting their instructor regarding work missed in the case of an absence;

- Cooperating with their instructor and other students to create a positive learning atmosphere;
- f. Contributing effectively to class activities.
- Students will be academically and intellectually honest in all classes, examinations; and learning activities. (The College, by regulation, will discipline students who cheat and/or copy the work of others; dishonesty is a serious offense and will be dealt with appropriately.)
- Students will contribute to a positive learning environment by conducting themselves appropriately. (The College prohibits acts which interfere with the rights of others to seriously pursue an education. For more details on the regulations of the College, see section entitled Student Rights, Responsibilities, and Conduct.)

SPECIAL PROGRAMS AND SERVICES

Lansing Community College provides many special programs and services for students, including those which are briefly described below. For a comprehensive listing, descriptions, and locations of all special programs and services available at the College, students should consult *The Student's Handbook*, Copies of *The Student's Handbook*, may be obtained from the Student Life Office, Room 200F, Gannon Vocational-Technical Center.

The Career and Employment Services (CES) Department provides the following services to students, alumni, employers and community members:

- Career Counseling—Career counseling involves various assessments, career information, and career decision making assistance.
- Employment Counseling—Employment counseling includes job search techniques, resume and cover letter development, interviewing skill development, and employment projections, including many information sources.
- Job Search—CES provides employer job postings, job fairs, and an Internet resume file accessible by employers. Job postings are on a Web-based system called CES JobLink which is available for use by students and alumni seven days a week, 24-hours per day. CES JobLink and other links to job boards may be found on the Internet at www.icc.edu/ces.
- Professional Assessments—CES provides assessments of competencies in specific areas, employee development, and employer assistance in hiring and certification testing.
- Resources—CES provides a wide range of information involving careers, college majors, employment projections, labor market trends, "hot jobs," salary ranges, and company data.

Career and Employment Services has a website which provides an in-depth view of services and information. The site is located at www.lcc.edu/ces.

Counseling and Advising Services provide academic advising assistance and counseling activities which assist students with personal and interpersonal issues and concerns; referral to community human services agencies for further professional assistance; career counseling and educational planning to facilitate career decisions, choice of major, and course selection. Call (517) 483-1904 for appointments and information, or check the website (www.lcc.edu/csc) for additional information.

The Office of Extension and Community Education (ECE) offers educational services to LCC's on and off-campus students. More than 20 Learning Centers currently exist in Lansing and the six surrounding counties. Classes offered at these off-campus centers include general education core requirements, as well

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as personal interest courses. Students can register for classes and arrange for assessment testing and advising in select locations. ECE's three full-service facilities are the Livingston County Center in Howell, the Clinton County Center in St. Johns and the Harry Hill Vocational Center in Lansing. Each center provides ontsite registration, academic counseling, assessment testing, computer labs, math labs and other services, plus free parking. Continuing Education classes are offered through the ECE office along with several youth programs including Summer College, Summer Camp and Saturday School. Other programs include the STAR Institute which offers associate degrees for area youth, and career counseling for job seekers at the Capital Area Michigan Works! Center in Lansing.

Information for Persons with Disabilities

Lansing Community College is committed to making accommodations and providing services for persons with disabilities. The College has administrative and faculty specialists who respond to visual, hearing, mobility, and alternative learning accommodation needs. They can be reached at the Office of Disability Support Services (ODSS), (517) 483-1904 (voice), or (517) 483-1207 (voice/TTY). The College adheres to the standards and guidelines set forth in the Americans With Disabilities Act.

To be eligible for services and accommodations through ODSS, students are required to provide written verification of their disability. Documentation must be signed and dated by a qualified professional who has diagnosed the disability. If necessary, the ODSS staff can help students find the appropriate professionals to diagnose thier disability. Students must have documentation of a disability on file in ODSS offices before services and accommodations for classes can be provided.

Handicap-accessible parking is available and clearly identified at Lansing Community College. For more information, call the office of Parking Services at (517) 483-1798.

international Programs coordinates overseas study through such programs as the Japan Adventure and a network of sister college exchange relationships and offers English and American culture courses for international students at the English Language and Culture Center.

The Lansing Community College Foundation supports students, faculty, programs, and facilities through private sector fund-raising in the community. Scholarship awards to students and allocations to LCC programs are coordinated by the Foundation Board of Directors in support of the mission and goals of the College.

Library Information Services provides information and research assistance, library resources, Internet access, interlibrary loan service, book renewals by phone, and library instruction. The library also has 600 study seats, including 33 multimedia and 15 group study rooms. The library website (www.lcc.edu/library) provides 24/7 access on and off campus to the library catalog, electronic books and government documents, full-text periodical articles, electronic course reserves, resource guides, credible web sites and an email research help service.

The Multicultural Center promotes a campus environment responsive to the needs of LCC's diverse students, faculty and staff. Staff facilitate minority students' access to appropriate services to ensure their career and academic success. Programs within the Multicultural Center include:

- The Limited English Proficiency Program—provides counseling, academic advising, registration assistance, financial aid assistance, multilingual translations and intensive English training for students with limited English skills (telephone number: 517-483-1216).
- Minority Outreach and Recruitment—assists in the recruitment of minority students; develops and maintains community contact with various minority organizations, clubs, and associations; identifies problems and removes barriers that inhibit minority students' success; coordinates and plans 'speoial cultural/ethnic observations and celebrations; and serves as an advocate on behalf of minority students (telephone number; 517-483-1059).
- Native American Leadership Program (NALP)—provides counseling and academic advising and assistance with admissions, registration, and financial aid for Native American students (telephone number: 517-483-1059).
- Mentoring Program—provides mentors for first-semester students to advise and support them during their time of transition and adjustment to Lansing Community College (telephone number: 517-483-9803).

The Office of Equal Opportunity and Diversity Programs educates the campus community about equal opportunity, affirmative action, and multiculturalism. Office staff resolve complaints of discrimination and other concerns related to employment and terms and conditions of employment or admission.

 ADA/504 Coordinator—The Director of Equal Opportunity serves as the ADA/504 Coordinator. The Director works with students, faculty and staff who have concerns relating to physical and programmatic accessibility, a disability and/or reasonable accommodations (telephone number: 517-483-5232).

- Title IX Coordinator—The Director of Equal Opportunity serves as the Title IX Coordinator. The Director works with faculty, staff and students to resolve concerns pertaining to discrimination on the basis of sex in education programs and activities (telephone number: 517-483-5232).
- Diversity Programs—The Office of Equal Opportunity and Multicultural Center provide cultural educational experiences through national speakers and cultural workshops. Staff work with the campus community to institutionalize diversity throughout the curriculum and provide cross cultural communication training and development opportunities (telephone number: 517-483-5232).

STAR Institute is a unique program designed to develop students into creative, flexible, and skilled workers for the 21st century. High school juniors and seniors can spend half-days at the STAR Institute earning Lansing Community College credit, pursuing high-level preparation for top earning careers; and getting a jump start on a college career. Students spend the other half of their day at their local high schools. The Institute's two career programs are Computer Infomation Technology and Geographic Information Systems. For additional STAR Institute information, call (517) 394-1956, or visit the web site at www.lcc.edu/star.

Student Orientation is an informational program designed for new and returning students. Find out about college academic programs and academic support services including admissions, financial assistance, registration, parking and student IDs. Explore the campus with an LCC tour guide to see our modern, high tech facilities and classrooms. Make a connection with faculty, counselors and advisors. Visit our cafeterias and student lounges where you can enjoy lunch and take a break with other students. If you can't make it to campus, visit us on-line at: www.lcc.edu/orientation. For more information call (517) 483-5323.

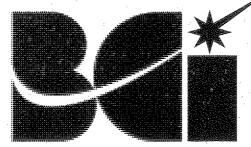
The Student Life Office enhances student leadership, development, and success through involvement in and exposure to diverse experiences and opportunities. These include Student Senate, a comprehensive student leadership development experience consisting of the Student Advisory Committee to the President, Student Organization Council, and the Student Leadership Academy; student clubs and organizations; student activities, such as low-cost travel opportunities; campus programming of guest artists and student workshops, lectures and opportunities to work on the staff of *The Lookout*, Lansing Community College's student newspaper. The Student Life Office also provides volunteer placement opportunities and a housing resource listing service.

Tutoring Services, offered through Library Information Services, provides free tutoring to students enrolled in LCC courses. Professional and peer tutors help students develop course competencies and study strategles. Individual appointments, study groups, Supplemental Instruction, and drop-in tutoring sessions are available on a first-come-first-served basis. Applications for tutoring are available at the Tutoring Services office or on the web at http://www.lcc.edu/tutorial or by calling (517) 483-1206.

The Women's Resource Center provides services and programs in support of women and men at Lansing Community College, including financial assistance with tuition, textbooks, transportation, and child care costs, academic advising, reentry support, and referral services. For additional information, visit the Center in the Gannon Vocational Technical Building, Suite 2300, or call (517) 483-1199, or visit our web site at www.lcc.edu/counseling/wresrc.htm.

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BUSINESS & COMMUNITY INSTITUTE LANSING COMMUNITY COLLEGE

Customized Training and Consulting Services for Business, Industry, Government and Non-Profit Organizations

What BCI Can Do for You

The Business & Community Institute at Lansing Community College is one of your most comprehensive locally based resources for customized training and consulting for business and industry in mid-Michigan. We want to be your preferred training provider, work hard to earn your trust and respect, and build a long-term business relationship with you. We will listen and understand your important business goals and issues and can design customized training to help build leaders, increase productivity, boost sales performance, manage change, and improve overall work performance. In the past two years, BCI has trained nearly 18,000 people in more than 350 area businesses and organizations. 85% of the employers we work with become repeat customers. More than ever before, companies are using the BCI as their source for workforce development, training project management, and assessment and educational consulting.

Types of Programs and Services Offered

BCI can provide your organization with a variety of programs including: noncredit/CEU courses; contact hour-based courses; LCC credit courses; and a growing number of customized virtual and hybrid programs. In addition, the BCI offers college courses that will lead to business and industry Information Technology Certification. Other services include training needs assessment, job profiling and skill development, consulting, and facilities rental/conference services. Our Small Business Development Center offers courseling and training to help you start and maintain your own small business.

Here is a sampling of content areas addressed by our training programs:

- · Business and Industry Certification in Information Technologies (IT)
- Technical Skills/Skilled Trades
- Microcomputer Software Applications/Business Software
- People Skills and Team Building for a Collaborative Workplace
- Human Resource and Management Development
- Quality Assurance, Quality Core Tools, and Continuous Improvement
- Lean Manufacturing, Supply Chain Management, and Project Management
- Vocational ESL (English as a Second Language) "job task-based" programs
- Speech and Handwriting Recognition

Where BCI Customized Training Programs Are Offered

Programs can be delivered on site at your place of business or at a nearby training site of your choice. Programs may also be held on the LCC campus in downtown Lansing, or at one of our suburban Learning Center sites. Our Laptop Labs travel to many companies to provide convenient on-site computer software training on any day of the week or on any shift. It's your choice!

Contact a BCI account executive today and you will be on your way to meeting your business education and training needs in a cost-effective way. You can call the BCI at (517) 483-1857. Or, call LCC's toll-free line at 1-800-644-4LCC and ask to be connected to the BCI. Visit us on the web at: www.lcc.edu/bci.

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The English Language & Culture Center of International Programs

Intensive English language instruction for international students and professionals

GENERAL INFORMATION

The English Language and Culture Center (ELCC) provides intensive English language instruction primarily to international students who need to improve their English skills before beginning college-level academic course. work. The Center also provides customized English tanguage and American culture instruction to groups that need specialized programs for professional or other activities. The ELCC is located in the International Programs Office, and its courses are non-credit. The ELCC issues I-20 forms to international students.

COURSES

The ELCC offers the following courses at 6 different levels:

- · COURSES: Grammar. Speaking/Listening. Reading and Writing
- + LEVELS: High Beginning; Intermediate I and II: and Advanced I. II, and III.
- * INSTRUCTIONAL HOURS: 6 hours/week
- * SESSION LENGTH: 8 weeks

TOEFL preparation courses (3 hours/week) are also offered in each session

TUITION & FEES

Contact the ELCC office at (517) 483-1006

APPLICATION & INFORMATION

To apply or obtain more information, call the ELCC office at (517) 483-1006 or call LCC's toll-free line at 1-800-644-4LCC and ask to be connected to the ELCC. Or check our web site at: http://www.tansing.cc.mi.us/executive/intlprog/elcc/index/htm

COURSE DESCRIPTIONS

NCEL 111	High Beginning Speaking/ Listening	non-credit
NCEL 112, 113	Intermediate Speaking/ Listening I and II	non-credit
NCEL 114, 115, 116	Advanced Speaking/ Listening I, II, and III	non-credit

Prerequisite: Placement test or pass the immediately preceding course

Six-session sequence in English speaking and listening. Designed to provide American English Language instruction through listening and speaking exercises for non-native students who wish to pursue college level course work. Students will practice the production of target sound, discussing various topics, note-taking, and various other tasks to develop oral and listening skills.

*		
NCEL 121	High Beginning Reading	non-credit
NCEL 122, 123	Intermediate Reading I and II	non-credit
NCEL 124, 125, 126	Advanced Reading I, II, and III	non-credit

Prerequisite: Placement test or pass the immediately preceding course

Six-session sequence in reading English. Designed to develop increased reading proficiency for non-native students who wish to pursue college level courses. Students will read various materials that they may encounter during their academic studies. Emphasizes vocabulary building, gaining reading speed, summarizing main ideas, notetaking, and various reading strategies.

NCEL 131	High Beginning Writing	non-credit
NCEL 132, 133	Intermediate Writing Land II	non-credit
NCEL 134, 135, 136	Advanced Writing I, II, and III	non-credit

Prerequisite: Placement test or pass the immediately preceding course

Six-session sequence in English writing. Designed to help non-native students improve their writing skills in preparation for college courses. Emphasizes process-oriented writing, including brainstorming, outlining, drafting, and revising. Students will work on writing well-developed and cohesive paragraphs and essays, as well as learning various rhetorical styles.

NCEL 141	High Seginning Grammar	non-credit
NCEL 142, 143	Intermediate Grammar i and li	non-credit
NCEL 144, 145, 146	Advanced Grammar I, II, and III	non-credit

Prerequisite: Placement test or pass the immediately preceding course.

Six-session sequence in standard American English grammar. Designed to help students increase their proficiency in writing, reading, and speaking and listening, Emphasizes grammatical structures in various contexts, including verb structures, articles. logical connectors, comparatives and conditionals. Attention will be given to grammatical forms and their appropriate use.

NCEL 151	TOEFL Preparation	non-credit

Prerequisite: Intermediate Grammar II

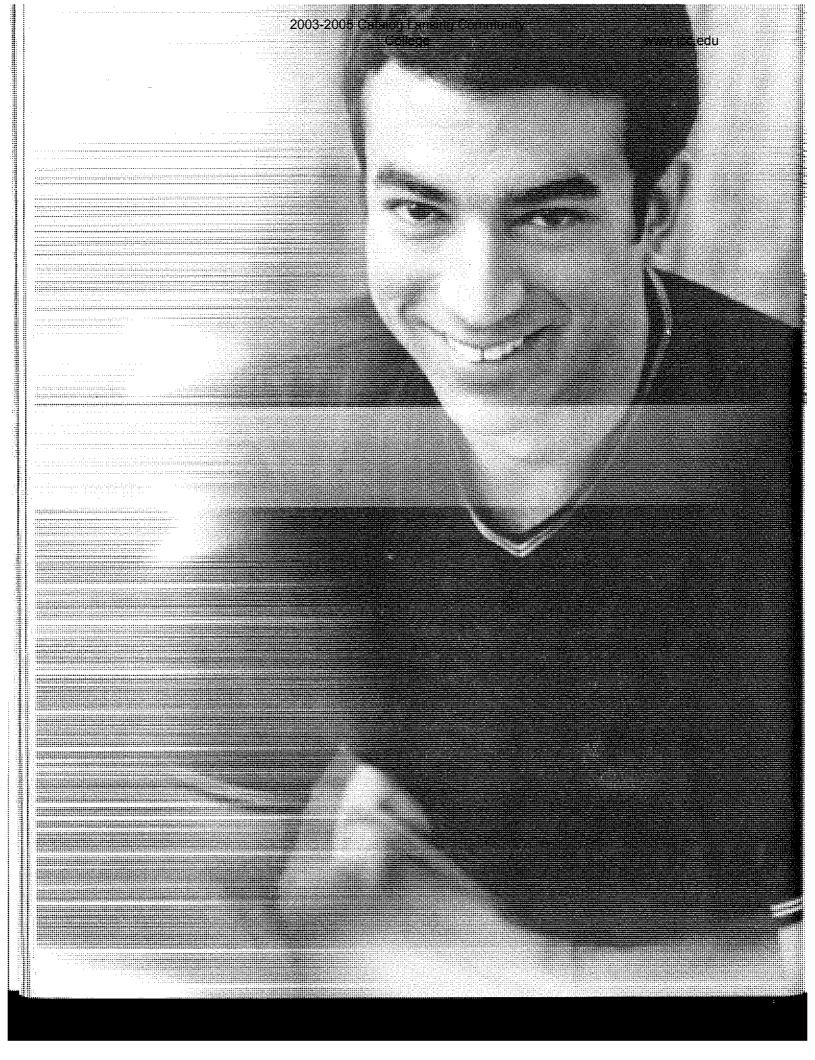
Two-session sequence in TOEFL preparation. Designed to prepare students for the computer-based TOEFL test. Will help students become familiar with particular computer-based TOEFL tests, including the grammar, vocabulary, and listening comprehension materials frequently encountered in these tests. Students also become familiar with the TOEFL writing (TWE) format.

NCEL 191 Pronunciation Lab

Prerequisite: None

Designed for students at any level to improve their American English pronunciation by extensive practice on vowels, consonants, stress, and intonation. The course also covers reductions, linking, and ellipsis, which are typical trouble areas for nonnative speakers of English. The lab meets three hours a week.

non-credit



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Music

Snecial

Engineening

Aris

Chemical

Computer

Electrical

Miniara

Nuclear

Surveying

Welding

Environmental

Chemistry

Science

Exercise and Sport Science

Family Consumer Resources

Family Community Services

Fire Science General Emphasis

Industry Management

Service Administration

Fisheries and Wildlife Management

Facilities Management

Family Life Education

Film & Video Studies

Family Studies

Science

Geological Sciences

Science

Health Care Management

Health Care Systems Administration

Fitness in Prevent & Rehab Program

Food

Forestry

Geology

Health

History

Geography

English

Paper

Civil

TRANSFER INFORMATION

Studems planning on transferring to a four-year institution should be aware that universities and colleges differ widely in the courses they accept for transfer. In order to achieve maximum transferability of courses, students should consult an academic advisor or counselor with the Counseling Services Department, Suite 2300. Gannon Vocational-Technical Center

In addition, students intending to transfer should follow the transfer guide designed specifically for the major and the institution in which they intend to enroll. Students should understand that transfer guides are not LCC degree guides. Students intending to earn an LCC degree prior to transferring should consult an academic advisor or counselor.

Transfer guides are available for many, but not all, possible transfer programs. Students are encouraged to contact the Admissions Office at the transfer institution of interest if there is not a curriculum guide available for a preferred major or institution. It is the student's responsibility when transferring from LCC to be aware of the transfer institution's policies and program requirements.

Transfer ourdes and additional transfer information may be obtained by returning the information request card attached to the back cover of this publication, or on the Internet at www.loc.edu/transfer. or by contacting. LCC Courseling Services Department, Gannon Vocational-Technical Center, Suite 2300, TEL (517) 483-1904; FAX (517) 483-1970: E-MAIL jlock@lcc.edu.

When requesting information, please indicate the area(s) of study and transter college/university choice(s)

Transfer guides are available for the following areas of study (majors):

Accountancy Accounting Actuarial Science and Economics Advertising Agribusiness Management Agnoulture and Natural Resources Communication Agriscience Animal Science Anthropology Apparel Design Applied Ecology & Environmental Science Applied Geo-physics Applied Liberal Studies Applied Mathematics Applied Physics Architectural Imaging Architecture Act Art History Athletic Training Atmospheric, Oceanic, and Space Sciences Audiology and Speech Sciences Automotive and Heavy Equipment Magadement Aviation Flight Science - Pilot Aviation Maintenance Technology Rehavioral Science Biochemistry Biological Science Biology Biopsychology Biotechnology Broadcasting Building Construction Management Business Administration Banking Business Studies Economics Finance Food industry Management Food Marketing Health Care Management Health Services Administration

Hospitality Services Administration Human Resources Management Information Systems Integrated Supply Management International Logistics Manadement Marketino Product Operation & Management Public Administration Retail Manadement Retail Supply Chain Management Statistics Chemistry Child Development Chiropractic, Pre-Professional **Clinical Laboratory Science** Communication Intercersonal and Public Scientific and Technical Studios Technical and Protessional Communication Arts Computational Mathematics Computer Information Science Computer Information Systems Computer Networks and Systems Computer Science Construction Management Criminal Justice Caminology Crop and Soll Science Dental Hygiene Dentistry, Pre-Professional Dietetics F-Commerce Earth Science Economics Education Elementary **Physical** Secondary Allied Health Biology Business Chemistry

Paalish History Home Economics Industrial Tech Mathematics Technology Administration Aeronautical Aerospace Biomedical Biosystems Construction Environmental Geological Industrial and Operations Management Marine & Navel Architecture Material Science Mechanical Engineering Technology Electrical/Electronics Heating, Ventilation, Air Condition and Refrigeration Heavy Equipment Service Manufacturing Mechanical Polymers & Coatings Product Design Applications Studies Biology/Zoology Conservation Health & Safety Management

. Home Economics Horticutture Hospitality Business Tourism Management Human Besources Development Managemerit Industrial Health and Safety Management Technology Information Systems Insurance Interdisciplinary Studies Human Aging Human Resources Humanities Public Policy Social Sciences Interior Architecture Interior Design International Business Relations Studies James Madison Journalism Kinesiology Landscape Architecture Law Pre-Professional Ledal Assistant Liberal Arts Management Health and Fitness Health Services Information Systems Organizational Development Public Satety Technical Marketing Mathematical Sciences Mathematics Mechanics Media Production Medical Assistant Program Medical Laboratory Sciences Medical, Pre-Professional Medical Record Administration Medical Technology Merchandising Management Modern Languages Music Natural Resources Network Computing Nursing Nutritional Sciences Occupational Safety & Health Occupational Therapy Occupational Therapy Assistant Optometry, Pre-Professional Outdoor Recreation. Leadership, & Management Packaolog Park, Recreation, and Tourism Resources Pharmady, Pre-Professional Philosophy Photography Physical Education Physical Therapy

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Physical Therapy Assistant Physician Assistant Physics Planning Podiatry. Pre-Professional Political Science Printing Management/Marketing Psychology Public & Non-profit Administration Public Relations Public Resource Management Quality Management Radiation Therapy Technology Recreation Recreational Management Social Science Social Work

Sociology Speech Pathology and Audiology Soorts Medicine Sports Science Surveying Systems Analysis and Application Development Telecommunication Television Production Textile and Apparel Studies Design & Development Merchandising Theatre Therapeutic Recreation Urban and Regional Planning Veterinary Medicine

Water Purification Tech

Colleges/universities for which transfer curricular guides are available are as fol lows (not all majors listed above are available at all transfer institutions):

Alma College Aquinas College Baker College Bay de Noc Community College Brooks Institute Calvin College Central Michigan University Clark Atlanta University Cleary University College for Creative Studies Concordia University Davenport University/Lansing Eastern Michigan University Ferris State University Franklin University Grand Rapids Community College Grand Valley State University Johnson and Wales University Kellogg Community College Kendall College of Art and Design Kettering University Lake Superior State University Lawrence Technological University Life Chiropractic College Michigan State University

Michigan Technological University Morehouse College Morris Brown College National University of Health Sciences Northern Michigan University Northwood University **Oakland University** Olivet College Palmer College of Chiropractic Saginaw Valley State University School of the Art Institute of Chicago Sherman College of Straight Chiropractic Spelman University Spring Arbor University Thomas M. Cooley Law School Tri-State University University of Detroit Mercy University of Michigan/Ann Arbor University of Michigan/Dearborn University of Michigan/Flint Walsh College Wayne State University Western Michigan University William Tyndale College

MACRAO TRANSFER AGREEMENT

In 1973 the Michigan Association of Collegiate Registrars and Admissions Officers proposed the MACRAO Transfer Agreement. The MACRAO Transfer Agreement was created to simplify the transfer of students from two-year to fouryear institutions. The agreement stipulates that 30 semester credit hours of 100-level and above, compatible, general course work will be granted to smooth transferability to participating universities. These credits will be applied toward a student's general education requirements. Completion of requirements for the MACRAO Transfer Agreement does not necessarily mean that a student has completed the requirements for a specific Lansing Community College associate degree.

The basic two-year requirements are:

	English Composition6	semester	hours minimum
•	Science and Mathematics8	semester	hours minimum
3	Social Science	semester	hours minimum.
	Humanities	semester	hours minimum

Effective Fall 2003, the following establishes the approved list of LCC courses under the four major distribution requirements for the MACRAO Transfer Agreement. A course can be used to satisfy only one category even though it may appear in more than one category. Only courses in which at least a 2.0 is received may be applied to this agreement.

English Composition (minimum of 6 semester credit hours) I.

- Any one from each group.
- 1. WRIT 121 or WRIT, 131
- 2. WRIT 122 or ENGL 122 or WRIT 132 or ENGL 132

A student with waiver of WRIT 121 indicated on the transcript must elect a secand course from the 200-level offerings in WRIT or ENGL. Waiver of WRIT 121 should be printed on the student's transcript.

NOTE: Areas below have 3-credit semester courses, and taking these courses may necessitate taking 3 courses to reach the 8 semester credit hour minimum

II. Science and Mathematics (minimum of 8 semester credit hours) Choose courses in at least two (2) subject areas, with a minimum of one laboratory science course. Underlined courses indicate a laboratory course Biological Science: BIOL 120, 121, 127, 128, 145, 201, 202, 203 and 204. 210. 260. 265: ISOI 122: PFHW 123 Mathematics and Statistics: MATH 121, 122, 126, 128, 130, 141, 151 152, 201, 202; STAT 170, 215, (Note: MSU does not accept

Math/Stat courses for the science requirement.) Physical Science: ASTR 201. CHEM 120, 125, 135, 151 and 161; GEOL 221. 222, 230: ISCI 121. 131; PHYS 120, 221, 251

- III. Social Science (minimum of 8 semester credit hours) Choose courses in at least two (2) subject areas. Economics: ECON 120, 201, 202, 213, 260 Geography: GEOG 120, 200, 202 Human Services: CHDV 101 CJUS 101, 102, 106, 225; GERO 100; SOWK 101 Political Science: POLS 120, 121, 260, 270 Psychology: PSYC 200, 202, 203, 205, 221, 250 Sociology/Anthropology: ANTH 270; SOCL 120, 254, 255, 260
- IV. Humanities (minimum of 8 semester credit hours) Take one of the following combinations
 - HIST 211 and 212 or 214; HUMS 211 and 212; HUMS 213 and 214; ENGL 211 and 212; PHIL 211 and 212; RELG 211 and 212 OR
 - Take courses in at least two (2) of the following areas: Art History: HUMS 120, 211, 212

Foreign Language: FREN 121, 122, 201, 202; GRMN 121, 122, 201. 202: JAPN 121, 122, 201; SPAN 121, 122, 201, 202, (Note: MSU does not accept Foreign Language courses for the Humanities requirement.)

History: ECON 213: HIST 150, 210, 211, 212, 214, 220, 230, 260

Humanities: HIST 240, 250; HUMS 140, 160, 213, 214, 215 Literature: ENGL 201, 202, 203, 208, 211, 212, 255, 256, 260, 266. 267, 270, 290

Performing Arts: MUSC 199, 240, 241; THEA 210 Philosophy: PHIL 151, 152, 153, 211, 212, 260 Religion: RELG 211, 212, 241, 242, 250

NOTES

- 1. Students are advised to also review specific transfer curricular guides. Some transfer institutions, for example, may require both a biological and physical science to satisfy the requirements for the degree,
- 2. Students seeking an LCC associate degree must fulfill specific graduation requirements including the LCC General Education Core requirements. See the General Information section of this catalog for additional details.

For further information and advising, contact an LCC academic advisor or counselor located in Suite 2300, Gannon Vocational-Technical Center, (517) 483-1904. The following 4-year institutions are signatory to the MACRAO Transfer Agreement

*Adrian College	*Kettering University
Albion College	*Lake Superior State University
*Alma College	*Lawrence Technological University
Aquinas College	*Madonna University
Baker College	*Michigan State University
*Calvin College	*Michigan Technological University
Central Michigan University	Northern Michigan University
Cleary University	Northwood University
Concordia University	*Oakland University
Davenport University	Olivet College
*Eastern Michigan University	Rochester College
Ferris State University	*Saginaw Valley State University.
Finlandia University	*St. Mary's College
*Grand Valley State University	*Siena Heights University
*Hope College	Spring Arbor University
*Kalamazoo College	*Western Michigan University

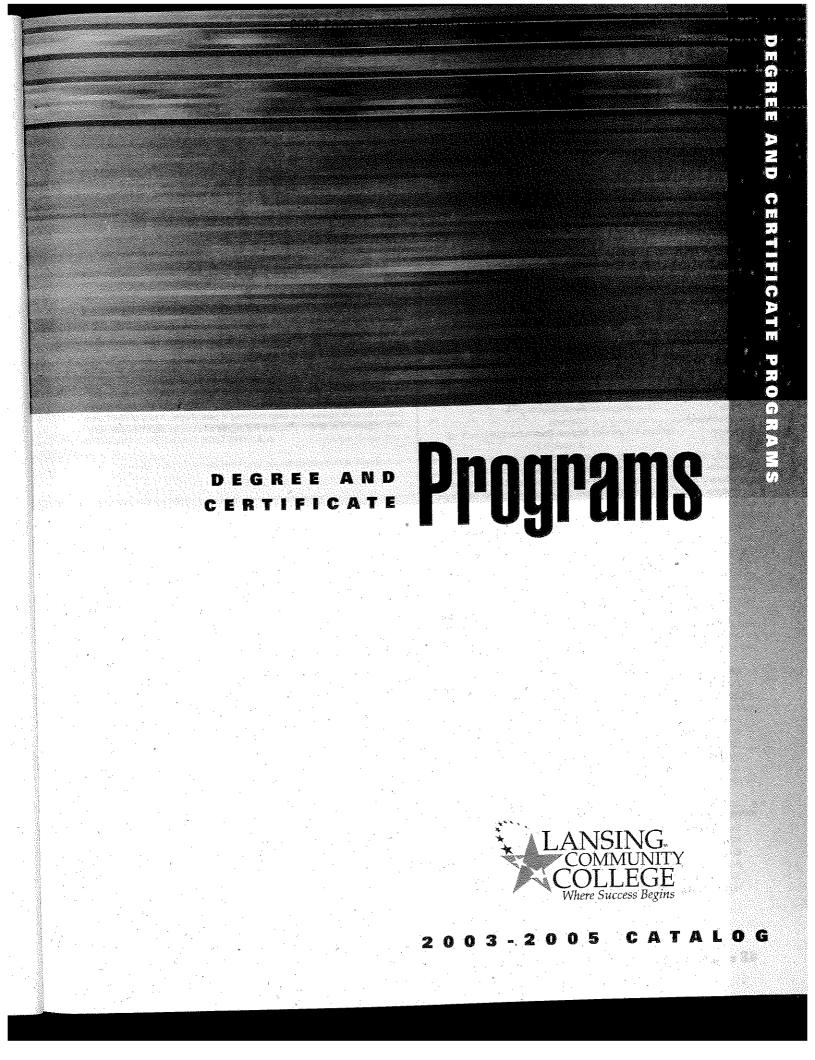
*Some limitations may apply. Check with individual college/university.

CAREER PATHWAYS

The Michigan Career Preparation System is a structure designed to give all students a jump-start on their futures by providing them with opportunities to explore a variety of careers throughout their K-12 education and beyond. A component of the Career Preparation System is Career Pathways, broad categories of career options that share similar characteristics and whose employment requirements call for many common interests, strengths, and competencies. Career Pathways identify classes that can be taken in high school that will better prepare a student for college success. There are six Career Pathways identified in Michigan. They are:

- Arts and Communication
- Business, Management, Marketing and Technology
- Engineering/Manufacturing and Industrial Technology
- Health Sciences
- Human Services
- Natural Resources and Agriscience

Within each career pathway there are high school courses and areas of study that link to certificate and associate degree programs offered at Lansing Community College. Students can choose between certificate and associate degree programs designed to provide skills for immediate employment or job advancement. Each career pathway also offers several transfer programs for students who plan to pursue advanced degrees at four-year colleges and universities. LCC programs organized by career pathways can be found at www.lcc.edu/careerpathways. Students are encouraged to explore Career Pathways options.



College

ASSOCIATE IN ARTS/ ASSOCIATE IN SCIENCE DEGREES

(EFFECTIVE FALL 2003 - SUMMER 2008)

These are primarity transfer degrees. Students completing this curriculum will also satisfy the MACRAO Transfer Agreement between two-year and four-year institutions in Michigan. It is designed for students who intend to transfer to a fouryear toplege or university to pursue a baccalaureate degree in such subject areas as the following:

Accessing	Humanities
Alacaa American History	International Studies
American Studies	Kinesiology
Art History	Liberal Arts
Biokogy	Literature
Susiness	Mathematics Physics
Chemisky	Medical Pre-Professional
Computer Science	Philosophy
Criminal Justice	Political Science
Economics	Psychology
Elementary Education	Religion
Engineering	Secondary Education
Fine Arts	Social Science
Foreign Language	Sociology
Geography	Speech Communication

The specific requirements for these degrees are presented below. A minimum of 60 credits is required. This guide consists of General Education Requirements and a Subject Area Concentration which may include Limited Choice Electives.

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

General education and subject area requirements vary from one college or university to another. Prior to beginning this curriculum, students should contact the Courseling and Advising Center, Suite 2300, Gannon (GVT) Building, telephone number (517) 483-1904, to consult with and academic advisor or counselor and obtain an appropriate transfer guide. Students should also contact the school to which they will transfer for specific transfer institution requirements. (See *Transfer Opportunities* for a list of institutions for which transfer guides are available.)

In addition, students may request specific course substitutions for the Subject Area concentration by submitting a Course Substitution and Waiver Authorization for Degree Screening Form to the Liberal Studies Office of Instruction, Room 111, Arts and Sciences Building.

\$.	GENERAL EDUCATION CORE AREA REQUIREMENTS (See Note 1) Minimum 17-20 credit (See General Education Core Requirements for information on how to full pase requirements. Core area proficiency exams, where appropriate, a	fill
·	Mathematics Core Area 3	9 -4 -4 -5 4
Ħ.	ADDITIONAL GENERAL EDUCATION MACRAO REQUIREMENTS (See Note 3) Minimum 16-21 credit Select credits to complete MACRAO requirements as stated on the approv MACRAO list (see Transfer Information) as follows: Evaluate Composition	

English Composition	4
Science and Mathematics (See Note 4)	0-5
Social Science (See Note 5)	4-8
Humanities (See Note 5)	4-8

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 NOTES:

 1. Select from the following list of Core courses for Section 1.

 <u>Communication:</u> ARTS 102, SIGN 160, SPCH 110, 120, 130

 <u>Global Perspectives and Diversity:</u> ECON 260, ENGL 211, 212, HUMS

 160, 211, 212, 213, 214, MUSC 240, 241, PHIL 211, 212, POLS 260,

 SOCL 120, 260

 <u>Mathematics:</u> MATH 112, 121, 122, 126, 130, 141, 151, 152, 201

 <u>Scence:</u> ASTR 201, BIOL 120, 127, 145, 202, CHEM 135, 151 and 161,

 GEOL 230, ISCI 121, 131, PHYS 120, 251

 <u>Writing:</u> ENGL 122, 132, WRIT 121, 122, 131, 132

- 2. Meeting Core with a proficiency test may require additional MACRAO credits.
- Also consult the transfer guides for requirements of specific four-year institutions (available in the Counseling and Advising Center or on the web at www.lcc.edu/transfer/guides).
- If the Math course fulfilling CORE (in Section I General Education Core Areas) is on MACRAO, this requirement is met.
- 5 The Social Science and Humanities categories of MACBAO require 8 credits each, but you may use the 3-4 credits fulfilling Global Perspectives and Diversity Core (in Section I General Education Core Areas) toward one of these categories as well.

III. SUBJECT AREA CONCENTRATION and

LIMITED CHOICE ELECTIVES

Minimum 25 credits

The following Subject Area Concentrations list the remaining required and recommended courses. Required courses already applied to this degree in Section 1 or II may be reptaced with another optional course listed in the concentration. Credits for each course have been indicated in parentheses. A total of 60-63 credits is required. A.A. or A.S. indicates the degree awarded for each concentration.

2003-2005 ASSAG LATSING ARTSIASSOCIATE IN SCIENCE DEGREES

College

www.lcc.edu

CCOUNTING	ΔΔ		ADTIMOT
	,	. Curriculum Code: 0254	ART HIST
1. Complete EC Science MA	ON 201 and ECON 202 to s CRAO requirements.	satisfy part of the Section II Social	1. Comp Perst
2. Complete the ACCG 210 ACCG 211	following required courses Principles of Accounting Principles of Accounting	I (4)	2. Com MAC
MATH 141 STAT 215	Calculus with Application	is (3)	3. Compl
000 210	intro to Friddadnity and C	Mais (4)	HUM HUM
3. Complete o	ne of the following (3 credite	5);	HUM
CISB 100	Intro Computer Into Syst		RELO
CPSC 120	Introduction to Computer	′s (3)	RELG
4. Complete or	ne of the following in addition	to courses taken to satisfy Section	4. Comple
l Mathemat	lics Core Area and Section	in II Science and Mathematics	ENGL
MACRAO re	equirement. (3-5 credits):	المحاجبي الحاج المعي الح	ENGL
	· · · · · · · · · · · · · · · · · · ·		HUMS
MATH 121 MATH 122	College Algebra I (4)		HUMS
MATH 122 MATH 126	College Algebra II and Tr		· Any fo
MATH 130	College Algebra and Trig Finite Mathematics (4)	(5)	
			BIOLOGY,
5. Complete a	minimum of 4 credits from th	he list of Limited Choice Electives	÷ .
où the anat	page of this curriculum.	•	1 Comp
			Core
FRICAN AME	RICAN HISTORY, A.A	- Curriculum Code: 0137	
FRICAN AME	RICAN HISTORY, A.A	Curriculum Code: 0137	
1			BIOL
1	IIST 211 and HIST 212 to	Curriculum Code: 0137	BIOL
 Complete F MACRAO re 	IIST 211 and HIST 212 to quirement.	o satisfy Section II Humanities	BIOL BIOL CHEM
 Complete H MACRAO re Complete the 	IIST 211 and HIST 212 to quirement. e following required courses	o satisfy Section II Humanities (27 credits):	BIOL BIOL CHEM
 Complete F MACRAO re Complete the ENGL 260 	IIST 211 and HIST 212 to quirement. a following required courses African-American Literatu	o satisfy Section II Humanities (27 credits): re (4)	BIOL BIOL CHEM CHEM
 Complete F MACRAO re Complete the ENGL 260 HIST 150 	IIST 211 and HIST 212 to quirement. a following required courses African-American Literatu African-American History	o satisfy Section II Humanities (27 credits): re (4)	BIOL BIOL CHEN CHEN 3. Comp
 Complete F MACRAO re Complete the ENGL 250 HIST 150 HIST 214 	IIST 211 and HIST 212 to quirement. a following required courses African-American Literatu African-American History African History (4)	o satisfy Section II Humanities (27 credits) : re (4) (4)	BIOL BIOL CHEN CHEN 3. Comp BIOL :
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RY, A.A. Curriculum Code: 0746 te HUMS 213 or HUMS 214 to satisfy the Section I Global ctives and Diversity Core Area requirement. te PHIL 211 and PHIL 212 to satisfy the Section II Humanities O requirements. the following required courses (20 credits): Mythology (4) 160 211 History of Art I (4) 212 History of Art II (4) 211 World Religions I (4) 212 World Religions II (4) a minimum of 8 credits from the following: 211 World Literature I (4) 212 World Literature II (4) 120 Western Art and Music History (4) 215 American Civilization (4) ign language with course numbers 201 or 202 (4) ۱.S. Curriculum Code: 0221 e MATH 121, CHEM 151 and 161 to satisfy Section I Mathematics ea and Science Core Area requirements. e the following required courses (12 credits): Cell Biology (4) Organismal Biology (4) 8 52 General Chemistry Lecture II (3) 62 General Chemistry Lab II (1) e a minimum of 15 credits from the following: Human Anatomy (4) Human Physiology (4) Microbiology (3) Microbiology Laboratory (1) Natural Resource Conservation (4) Botany (4) Zoology (4) Human Genetics (3) Molecular Biology I (4) 51 Organic Chemistry Lecture I (4) Organic Chemistry Lecture II(4) 52 72 Organic Chemistry Laboratory (2) 22 Enviro Sampl & Instrumentation (4) Introduction to Statistics (3)

The following is a suggested course sequence for required courses. If you are unable to follow this sequence, contact an academic advisor or counselor for help with adjustments.

1	11		
BIOL 127	BIOL 128		
CHEM 151	CHEM 152		
CHEM 161	CHEM 162		
MATH 121	de la companya de la		· • .
a tak	an go		

LANSING COMMUNITY COLLEGE CATALOG 2003-2005 # 43

ASSOCIATE IN ARTS/ASSOCI2002-2005 CHENGE DEGREES nunity

College

Curriculum Code: 0230

	Curriculum Code: 0232
USINESS, A.A.	
1, Complete ECON 201 and I 121 to satisfy the Section II	ECON 202 in addition to POLS 120 or POLS Social Science MACRAO requirement.
ACCG 211 Principles o BUSN 118 Introduction MGMT 225 Principles o	uired courses (17 credits): f Accounting I (4) f Accounting II (4) to Business (3) f Management (3) f Marketing (3)
3. Complete one of the follow CISB 100 Intro Comp CPSC 120 Introduction	ing (3 credits) : uter Info Systems (3) n to Computers (3)
 Complete a minimum of Electives on the final page 	5-6 credits from the list of Limited Choice of this curriculum.
CHEMISTRY, A.S.	Curriculum Code: 0117
1 Complete MATH 151, CF	HEM 151 and CHEM 161 to satisfy Section I nd Science Core Area requirements.
(Note: In order to complete recommended.) CHEM 152 General C CHEM 162 General C CHEM 251 Organic C CHEM 252 Organic C CHEM 262 Quantitativ	quired courses (20 credits) : a sequences, MATH 253 and PHYS 252 are also hemistry Lecture II (3) hemistry Lab II (1) hemistry Lecture I (4) hemistry Lecture II (4) ve Analysis (2) hemistry Laboratory (2) I (4)
BIOL 127 Cell Biolo PHYS 251 Physics I:	8 credits from the following: gy (4) Mechanics (5) robability and Stats (4)
The following is a sugges are unable to follow this selor for help with adjusts	sted course sequence for required courses. If you sequence, contact an academic advisor or coun- ments.
I II CHEM 151 CHEM 15 CHEM 161 CHEM 16 MATH 151 MATH 15	62 CHEM 262 CHEM 272
COMPUTER SCIENCE,	▲ S Curriculum Code: 0169
	d PHYS 251 to satisfy Section I Mathematics Core
CPSC 230 Algorithm CPSC 231 Computi	
MATH 254 Intro: Dil MATH 260 Linear A PHYS 252 Phys II:	f 6 credits from the following: fferential Equations (3) Algebra (3) Electrom/Wave/Optic (5) Probability and Stats (4)

Curriculum Code: 0146 CRIMINAL JUSTICE, A.A. 1. Complete the following required courses (15 credits): Intro to Criminal Justice (3) CJUS 101 Crime Causes and Conditions (3) **CJUS 102** Criminal Law (3) CJUS 103 Intro to Juvenile Justice (3) CJUS 106 Introduction to Corrections (3) CJUS 131

2. Complete a minimum of 10 credits from the following: Human Relations/Criminal Just (3) CJUS 255. Introduction to Psychology (4) PSYC 200 Psychology of Personality (3) PSYC 202 Social Psychology (3) PSYC 203 Human Growth and Development (3) PSYC:205 Abnormal Psychology (3) PSYC 250 Introduction to Sociology (4) SOCL 120 Contemporary Social Problems (3) SOCL 255 Race and Ethnicity (3) SOCL 260

ECONOMICS, A.A.

ment.

1. Complete MATH 121 to satisfy Section I Mathematics Core Area require-

- 2. Complete ECON 201 and ECON 202 to satisfy part of the Section II Social Science MACRAO requirements.
- 3. Complete the following required course (3 credits): MATH 122 College Algebra II and Trig (3)

4. Complete additional courses from the LCC MACRAO list and/or from the following list (22 credits). (See Note 1)

- Principles of Accounting 1 (4) ACCG 210
- Principles of Accounting II (4) ACCG 211
- Introduction to Computers (3) **CPSC 120**
- Calculus III (4) MATH 253
- Intro: Differential Equations (3) MATH 254
- Linear Algebra (3) MATH 260

NOTE:

1. Courses in social sciences, mathematics, statistics and computer science are recommended.

44 M LANSING COMMUNITY COLLEGE CATALOG 2003-2005

2003-2005 ASSOCIATE IN SCIENCE DEGREES

	Y EDUCATION, A.A	 Curriculum Code: 0 		ARTS, A.A.		Curri	culum Code: 072
						Oum	culum code. 074
1. ISCI 121 ment.	s recommended to satisfy	y Section I Science Core Area requ	lire- 1.		3 102 and HUMS 211 to Global Perspectives and		
MACRAO	POLS 120 and SOCL 120 requirement, ISCI 122 is nd Math MACRAO require) to satisfy the Section II Social Scle recommended to satisfy the Section ement.	nce 2. m II	Complete HUM MACRAO requir	IS 212 to satisfy the rements.	additional Sect	ion II Humanitie
·			3.	Complete the fo	llowing required courses	s (9 credits):	·
	the following required cou				3-Dimensional Design (3	3)	
ARTS 240					Drawing I (3)		e de la composición d
EDUC 20 EDUC 20				ARTS 132	Figure Drawing (3)		
EDUC 20	,		1	Complete R area	i . Alta di Ili di di si		• *
- EDUC 23			4.		dits from the following:		
MATH 201					Printmaking I (4)	· .	
MUSC 20					Printmaking II (4) Screen Printing I (4)		
					Screen Printing II (4)		
4. Complete	4-8 credits from the follow	wing list			Painting I (4)		
ANTH 270					Painting II (4)		
BIOL 229	Nature Studies for E				Vatercolor I (4)	·	
EDUC 226					Vatercolor II (4)		100 A.
ENGL 208	Children's Literature	(4)					
ENGL 220	Science Fiction (4)		5.	Complete a mini	mum of 8 credits from f	the list of Limiter	d Choice Elective
ENGL 255	American Literature	1 (4)			e of this curriculum.		
ENGL 256	American Literature	II (4)		· · · · ·	/	· · · ·	
ENGL 267		4)	Rectanged and the				
GEOG 12		(3)	. FORE	IGN LANGU	AGE, A.A.	Currie	culum Code: 013
GEOG 20	J	graphy (4)		•		·	
MATH 202		achers II (4)	1.	Complete the fol	lowing required course	(3 credits);	
PSYC 200	/ ·			SPCH 280 h	ntercultural Communicat	tion (3)	
PSYC 205							· · ·
PSYC 221	Child Psychology (3)		2	Complete one of	the following four choic	es (A, B, C, D)	(16 credits);
SOCL 260	Race and Ethnicity (3)		A. FREN 121	Elementary French I		
SOCL 260	Race and Ethnicity (3)		FREN 122	Elementary French II	(4)	
SOCL 260	Race and Ethnicity (3)		FREN 122 FREN 201	Elementary French II Intermediate French	(4) I (4)	
				FREN 122	Elementary French II	(4) I (4)	
SOCL 260		3) Curriculum Code: 01	12	FREN 122 FREN 201 FREN 202	Elementary French II Intermediate French Intermediate French	(4) (4) (4)	
IGINEERIN	G, A.S.	Curriculum Code: 01	12	FREN 122 FREN 201 FREN 202 B. GRMN 121	Elementary French II Intermediate French Intermediate French Elementary German	(4) (4) (4) (4)	
IGINEERIN	G, A.S. MATH 151, CHEM 151 ar	Curriculum Code: 01 nd CHEM 161 to satisfy the Sectio	12	FREN 122 FREN 201 FREN 202 B. GRMN 121 GRMN 122	Elementary French II Intermediate French Intermediate French Elementary German Elementary German	(4) (4) (4) (4)	· · · · · ·
IGINEERIN	G, A.S. MATH 151, CHEM 151 ar	Curriculum Code: 01	12	FREN 122 FREN 201 FREN 202 B. GRMN 121 GRMN 122 GRMN 201	Elementary French II Intermediate French Intermediate French Elementary German Elementary German Intermediate German	(4) I (4) II (4) II (4) II (4)	
IGINEERIN 1. Complete Mathemati	G, A.S. MATH 151, CHEM 151 ar	Curriculum Code: 01 nd CHEM 161 to satisfy the Sectio e Core Area requirements.	12	FREN 122 FREN 201 FREN 202 B. GRMN 121 GRMN 122	Elementary French II Intermediate French Intermediate French Elementary German Elementary German	(4) I (4) II (4) II (4) II (4)	
IGINEERIN 1. Complete Mathemati	G, A.S. MATH 151, CHEM 151 ar to Core Area and Science	Curriculum Code: 01 nd CHEM 161 to satisfy the Sectio e Core Area requirements.	n I	FREN 122 FREN 201 FREN 202 B. GRMN 121 GRMN 122 GRMN 201 GRMN 202	Elementary French II Intermediate French Intermediate French Elementary German Elementary German Intermediate German	(4) (4) (4) (4) (4) (4) (4)	
IGINEERIN 1. Complete Mathemati 2. Complete	G, A.S. MATH 151, CHEM 151 ar to Core Area and Science he following required court	Curriculum Code: 01 nd CHEM 161 to satisfy the Sectio e Core Area requirements.	n I	 FREN 122 FREN 201 FREN 202 B. GRMN 121 GRMN 122 GRMN 201 GRMN 202 C. JAPN 121 	Elementary French II Intermediate French Intermediate French Elementary German Intermediate German Intermadiate German Elementary Japanese	(4) I (4) I (4) I (4) I (4) I (4) I (4) I (4) I (4) I (4)	
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Curriculum Code: 0749 HUMANITIES, A.A.

Curriculum Code: 0119

1. Complete GEOG 200 to satisfy Section II Social Science MACRAO requirement.

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2.	Complete the f GEOG 120 GEOG 121 GEOG 202	ollowing required courses (9 credits) : Introduction to Geography (3) Physical Geography (3) Geography of North America (3)
1	100 A. 14	
,З.	Complete a mi	nimum of 16 credits from the following:
	ANTH 270	Cultural Anthropology (3)
	ECON 120	Power, Authority and Exchange (4)
	ECON 260	Comparative Economic Systems (3)
	GEOG 203	Economic Geography (3)
	GRET 205	Principles Geographic Info Sys (3)
	POLS 260	Comparative Political Systems (3)
	POLS 270	International Relations (3)
	SOCL 120	Introduction to Sociology (4)
	STAT 170	Introduction to Statistics (3)
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Any foreign language with course numbers 121, 122, 201, or 202 (4)

HISTORY, A.A.

Curriculum Code: 0197

 Complete HIST 211 and HIST 212 to satisfy the Section II Humanities MACRAO requirement.

Complete the	following required courses (12 credits):	
HIST 214	African History (4)	÷.,
HUMS 213	World Civilizations I (4)	
HUMS 214	World Civilizations II (4)	
Complete a m	inimum of 16 credits from the following:	
ENGL 255	American Literature I (4)	. •
ENGL 256	American Literature II (4)	
HIST 150	African-American History (4)	
HIST 210	Studies in American History (4)	
HIST 220	Michigan History (4)	
HIST 230	British History (4)	
HIST 260	Conflict & Revolu Southrn Africa (4)	
RELG 250	Religions of East Asia (4)	
1. Č	- · · · · · · · · · · · · · · · · · · ·	
	HIST 214 HUMS 213 HUMS 214 Complete a rr ENGL 255 ENGL 256 HIST 150 HIST 210 HIST 220 HIST 230 HIST 260	HUMS 213World Civilizations I (4)HUMS 214World Civilizations II (4)Complete a minimum of 16 credits from the following:ENGL 255American Literature I (4)ENGL 256American Literature II (4)HIST 150African-American History (4)HIST 210Studies in American History (4)HIST 220Michigan History (4)HIST 230British History (4)HIST 260Conflict & Revolu Southrn Africa (4)

1. Complete HUMS 213 and HUMS 214 to satisfy Section II Humanities MACRAO requirements. 2. Complete a minimum of 28 credits from the following: Introduction to Poetry (4) ENGL 201 ENGL 202 Introduction to Drama (4) Introduction to Prose (4) ENGL 203 World Literature I (4) ENGL 211 World Literature II (4) ENGL 212 American Literature I (4) ENGL 255 American Literature II (4) ENGL 256 African-American Literature (4) ENGL 260 U.S. History to 1877 (4) HIST 211 U.S. History: 1877 to Present (4) HIST 212 11440 400 Mastern Act and Music History (4)

HUMS 120	Western Art and Music History (4)
HUMS 160	Mythology (4)
HUMS 211	History of Art I (4)
HUMS 212	History of Art II (4)
PHIL 151	Intro: Logic & Critical Think (4)
PHIL 152	Introduction to Ethics (4)
PHIL 153	Knowledge and Reality (4)
PHIL 211	World Philosophies I (4)
PHIL 212	World Philosophies II (4)
RELG 211	World Religions I (4)
RELG 212	World Religions II (4)
RELG 250	Religions of East Asia (4)

INTERNATIONAL STUDIES, A.A.

1. Complete HUMS 213 to satisfy the Section I Global Perspectives and

Curriculum Code: 0252

- Diversity Core Area requirement
- Complete HUMS 214, GEOG 200 and POLS 120 to satisfy additional Section II Humanities and Social Science MACRAO requirements.
- Bit Sector
 Complete the following required courses (6 credits):

 POLS 260
 Comparative Political Systems (3)

 POLS 270
 International Relations (3)
- Complete 8 credits of any foreign language with course numbers 121, 122, 201, or 202.

5. Complete a mi	nimum of 11 credits from the following:
ANTH 270	Cultural Anthropology (3)
ECON 120	Power, Authority and Exchange (4)
ECON 260	Comparative Economic Systems (3)
ENGL 211	World Literature I (4)
ENGL 212	World Literature II (4)
GEOG 203	Economic Geography (3)
HIST 214	African History (4)
HIST 230	British History (4)
PHIL 211	World Philosophies I (4)
PHIL 212	World Philosophies II (4)
POLS 280	Politics & Government of Japan (3)
RELG 211	World Religions I (4)
RELG 212	World Religions II (4)
SOCL 120	Introduction to Sociology (4)
SOCL 180	Intro to Latino Studies (3)
SOCL 185	Intro to African-American Study (3)
SOCL 260	Race and Ethnicity (3)
SOCL 280	Intro to Japanese Culture (3)

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Curriculum Code: 0124

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K	KINESIOLOGY, A.S. Curriculum Code: 0970				
	1.		ATH 122 and BIOL 202 to satisfy ience Core Area requirements.	Section Mathematics Core	
	2.		SYC 200 and PHYS 221 to satisi Science and Math MACRAO rea		
	З.	Complete the	e following required courses (25	credits) (See Note 1):	
		BIOL 201	Human Anatomy (4)		
		CHEM 151	General Chemistry Lecture I	(4)	
		CHEM 161	General Chemistry Lab I.(1)	· · ·	
		EMSA 100	First Aid and CPR (2)	· · · · · ·	
		PFFT 100	Total Fitness (2)	1	
		PFHW 163	Healthy Lifestyles (2)		
		PFKN 170.	Foundations of Kinesiology (2	·) · · · · ·	
		PFKN 250	Measurements in Kinesiology	(3)	
		PFKN 260	Growth & Motor Behavior (3)		
		Activity Cours	se (2) (See Notes 2 and 3)		
·	4.	It is recomm	ended that students also take	PEET 123 Human Nutrition	
		(3 credits).	•		
	NC	TES:			
	1.	Kinesiology n	najors pursuing an Athletic Traini	ing Specialization	
			omplete PFKN 210 - Athletic Tra		
÷	2.		najors with an Exercise Science		
			ourse with code PFAQ, PFDA, F		

 Kinesiology majors with a Physical Education Teaching emphasis should complete one course from each activity category: aquatics, conditioning, dance, racquet and individual sports, and team sports.

The following is a suggested course sequence for required courses. If you are unable to follow this sequence, contact an academic advisor or counselor for help with adjustments.

ł	11	111	IV _
CHEM 151	BIOL 201	BIOL 202	PFKN 250
CHEM 161	EMSA 100	MATH 122	PHYS 221
PFKN 170	PFFT 100	PFKN 260	PSYC 200
Activity Crs.	PFHW 163		2

LIBERAL ARTS, A.A.

Curriculum Code: 0251

Complete a minimum of **25 credits** from the list of Limited Choice Electives shown on the final page of this curriculum. The following courses are recommended choices.

BIOL 120	Environmental Science (4)
CHEM 135	Chemistry in Society (4)
CPSC 120	Introduction to Computers (3)
ENGL 256	American Literature II (4)
MATH 130	Finite Mathematics (4)
PFFT 100	Total Fitness (2)
PFHW 163	Healthy Lifestyles (2)
PHIL 152	Introduction to Ethics (4)
POLS 120	American Political System (4)
SOCL 120	Introduction to Sociology (4)
SPCH 280	Intercultural Communication (3)
Any foreign lar	nguage course with number 121, 122, 201, or 202 (4)

LITERATURE, A.A.

- 1. Complete ENGL 211 and ENGL 212 to satisfy Section II Humanities MACRAO requirement.
- 2. Complete a minimum of 8 credits from the following (8 credits):
 - ENGL 201 Introduction to Poetry (4) ENGL 202 Introduction to Drama (4)
 - ENGL 202Introduction to Drama (4)ENGL 203Introduction to Prose (4)
- Complete a minimum of 20 credits from one of the following choices (A or B);

Α.	ENGL 208	Children's Literature (4)
	ENGL 255	American Literature I (4)
	ENGL 256	American Literature II (4)
÷ .	ENGL 260	African-American Literature (4)
	ENGL 266	British Literature I (4)
	ENGL 267	British Literature II (4)
	ENGL 290	Shakespeare (4)
	HUMS 160	Mythology (4)
	PHIL 151	Intro: Logic & Critical Think (4)
	RELG 241	Old Testament Literature (4)
	Any foreign I	anguage with course numbers 121, 122, 201, or 202 (4)
₿.	EDUC 201	Teacher Education Practicum (2)
· '	EDUC 204	Educational Psychology (4)
	EDUC 220	Introduction to Education (3)
	ENGL 208	Childrens Literature (4)
	ENGL 255	American Literature I (4)
	ENGL 256	American Literature II (4)
	ENGL 266	British Literature I (4)
	ENGL 267	British Literature II (4)

MATHEMATICS/PHYSICS, A.S.

PSYC 200

Curriculum Code: 0200

1. Complete MATH 151 and PHYS 251 to satisfy Section I Mathematics Core Area and Science Core Area requirements.

Introduction to Psychology (4)

2.	Complete the	following required courses (19 credits):
	MATH 152	Calculus II (4)
	MATH 253	Calculus III (4)
	MATH 254	Intro: Differential Equations (3)
	MATH 260	Linear Algebra (3)
	PHYS 252	Phys II: Electrom/Wave/Optic (5)
З.	Complete a m	inimum of 6 credits from the following:
	CHEM 151	General Chemistry Lecture I (4)
	CHEM 161	General Chemistry Lab I (1)
	CPSC 230	Algorithms and Computing w/C++ (4)
	CPSC 231	Computing and Data Structures (4)
	CPSC 260	Computer Science Structures (4)
	MATH 281	Honors Math Seminar I (1)
	MATH 282	Honors Math Seminar II (1)
	STAT 215	Intro to Probability and Stats (4)

The following is a suggested course sequence for required courses. If you are unable to follow this sequence, contact an academic advisor or counselor for help with adjustments.

· · · ·	4 N		٨	
ł	11	- 111	IV .	
MATH 151	MATH 152	MATH 253	MATH 254	
	PHYS 251	PHYS 252	MATH 260	

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EDICAI	PRE-P	ROFESSIONAL, A.S.	Curriculum Code: 0754
NOTE: Student physical	s who are therapy pl	planning a career in dentistry nysicians assistant, etc. could f	y, pharmacology, medicine ollow this curriculum.
1. Сол Mat	nplete MAT nematics C	H 122, CHEM 151 and CHE ore Area and Science Core Ar	M 161 to satisfy Section ea requirements.
2. Con mer		C 200 to satisfy Section II Socia	al Science MACRAO require
BIO CHI CHI PHI	nplete the f L 127 EM 152 EM 162 YS 221 YS 222	ollowing required courses (16 Cell Biology (4) General Chemistry Lecture II General Chemistry Lab II (1) Introductory Physics I (4) Introductory Physics II (4)	
BIC CH CH	nplete a m)L 201 EM 251 EM 252 EM 272	nimum of 10 credits from the Human Anatomy (4) Organic Chemistry Lecture I Organic Chemistry Lecture II Organic Chemistry Laborator	(4) (4)
are	unable to	is a suggested course sequence follow this sequence, contact a with adjustments.	ce for required courses. If y an academic advisor or cou
CH CH	DL 127 IEM 151 IEM 161 ATH 122	II III CHEM 152 PHYS 221 CHEM 162 PSYC 200	IV PHYS 222
PHILOS	ophy, A	\. Α.	Curriculum Code: 01
	omplete PH ACRAO rec	IIL 211 and PHIL 212 to sati uirement.	sty the Section II Humani
PI PI	omplete the HIL 151 HIL 152 HIL 153	following required courses (6 Intro: Logic & Critical Think Introduction to Ethics (4) (S Knowledge and Reality (4) ((4) ee Note 1)
н . н	omplete a I UMS 120 UMS 140 UMS 213	ninimum of 20 credits from th Western Art and Music Hist Art of Being Human (4) World Civilizations I (4)	e following: ory (4)

HUMS 140	Art of Being Human (4)
HUMS 213	World Civilizations I (4)
HUMS 214	World Civilizations II (4)
HUMS 225	Grt Lake Native Amer: Hist & Trad (4)
PHIL 260	Contemporary Ethical Problems (4)
RELG 211	World Religions I (4)
BELG 212	World Religions II (4)
	language with course numbers 201 or 202 (4)
NOTE:	

1. Students may elect to take either PHIL 152 or PHIL 153 but not both.

POLITIC	AL SCIENC	E, A.A.	Curriculum Code: 0750
	plete POLS 120 CRAO requirer	0 and SOCL 120 to satisfy th nent.	e Section II Social Science
PO	LS 121 Sta	ing required courses (7 crec ate and Local Government (4 mparative Political Systems	1) .
3. Coi A.	mplete a minim Complete 9-1 POLS 205 POLS 206 POLS 240 POLS 250 POLS 270 POLS 280	um of 16 credits from A and 12 credits from the following Government Internship (3) Advanced Government Inter- Introduction to Public Policy US Political Parties/Election International Relations (3). Politics & Government of J	: ernship (3) y (3) ns (3)
Β.	Complete 9-1 ECON 120 ECON 201 ECON 202 GEOG 200 SOCL 180 SOCL 185 SOCL 255 SOCL 250	1 credits from the following: Power, Authority and Exch Principles of Economics-M Principles of Economics-M World Regional Geography Intro to Latino Studies (3) Intro to African-American (Contemporary Social Prot Race and Ethnicity (3)	ange (4) licro (3) lacro (3) y (4) Sfdy (3)

PSYCHOLOGY, A.A.

2.

STAT 170

SOCL 255

SOCL 260

1. Complete PSYC 200 to satisfy part of Section II Social Science MACRAO requirement.

Any foreign language with course numbers 121, 122, 201, or 202 (4)

Curriculum Code: 0215

Introduction to Statistics (3)

_		the following:	
Co	mplete a mini	mum of 25 credits from the following:	
А.		minimum of 12 credits:	
	PSYC 202	 Psychology of Personality (3) 	
	PSYC 203	Social Psychology (3)	
	PSYC 205	Human Growth and Development (3)	
	PSYC 209	Cognitive Psychology (3)	
	PSYC 210	Biological Psychology (3)	
-	PSYC 250	Abnormal Psychology (3)	
В.	Complete a	minimum of 13 credits:	
	ANTH 270	Cultural Anthropology (3)	
	ANTH 271	Medical Anthropology (3)	
	ECON 201	Principles of Econ-Micro (3)	
	EDUC 204	Educational Psychology (3)	
	POLS 240	Introduction to Public Policy (3)	
	POLS 260	Comparative Political Systems (3)	
	PSYC 175	Psych of Death: Prep for Living (3)	
	PSYC 204	Educational Psychology (3)	
	PSYC 221	Child Psychology (3)	
	PSYC 222	Adolescent Psychology (3)	
	PSYC 240		
	SOCL 120		
	SOCL 120	Marriage and Family (3)	
	300L 204	Mushago und ranny (0)	

Contemporary Social Problems (3)

Any foreign language with course numbers 121, 122, 201, or 202 (4)

Race and Ethnicity (3)

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RELIGION, A.A. Curriculum Code: 0751	500
 Complete RELG 211 and RELG 212 to satisfy the Section II Humanities MACRAO requirement. 	. 1
Complete the following courses (27 credits): ANTH 270 Cultural Anthropology (3) ENGL 211 World Literature I (4)	. 2
ENGL 211 World Literature I (4) HUMS 160 Mythology (4) PHIL 152 Introduction to Ethics (4) (See Note 1) PHIL 260 Contemporary Ethical Problems (4) (See Note 1)	3
RELG 241 Old Testament Literature (4) RELG 250 elignment estatation of the literature (4) RELG 250 elignment estatation of the literature (4)	. 4
NOTE: 1. Students may elect to take either PHIL 152 or PHIL 260 but not both.	
SECONDARY EDUCATION, A.A. Curriculum Code: 0752	-
 Complete POLS 120 and SOCL 120 to satisfy the Section II Social Science MACRAO requirement. 	
 Complete the following required courses (12 credits): EDUC 201 Teacher Education Practicum (2) EDUC 202 Link (12 credits) 	
EDUC 220 Introduction to Education (3) PSYC 200 Introduction to Psychology (4) PSYC 205 Human Growth and Development (3)	
 Complete a minimum of 13 credits from the list of Limited Choice Electives numbered 120 or higher at the end of the concentration listings in the sub- inst area in which you also to teach. 	
ject area in which you plan to teach.	
	5.

IAL SCIENCE	, A.A.	Curriculum Code: 0121
		Global Perspectives and
		I Section II Social Science
ECON 201 F GEOG 200 V	Principles of Economics-Micro (Vorld Regional Geography (4)	
credits): -A. ECON 202 ECON 260	Principles of Economics-Ma Comparative Economic Syst	cro (3) lems (3)
B. GEOG 120 GEOG 121 GEOG 202	Introduction to Geography (3 Physical Geography (3) Geography of North America	
C. POLS 240 POLS 250 POLS 260 POLS 270	Introduction to Public Policy US Political Parties/Elections Comparative Political System International Relations (3)	s (3)
 EDUC 204 PSYC 202 PSYC 203 PSYC 205 PSYC 221 PSYC 222 PSYC 225 	Educational Psychology (3) Psychology of Personality (3 Social Psychology (3) Human Growth and Develop Child Psychology (3) Adolescent Psychology (3) Abnormal Psychology (3)	
 E. ANTH 270 ANTH 271 ANTH 275 ANTH 276 SOCL 180 SOCL 185 SOCL 254 SOCL 255 	Cultural Anthropology (3) Medical Anthropology (3) Physical Anthr and Archeolo World Archeology (3) Introduction to Latino Studies Intro to African-American Sto Marriage and Family (3) Contemporary Social Problem	s (3) Jy (3)
	Complete SOCI Diversity Core A Complete POLS MACRAO requir Complete the fol ECON 201 F GEOG 200 V PSYC 200 In Complete one cc credits): A. ECON 202 ECON 260 B. GEOG 120 GEOG 121 GEOG 202 C. POLS 240 POLS 250 POLS 250 POLS 250 POLS 250 POLS 250 POLS 202 PSYC 203 PSYC 203 PSYC 203 PSYC 205 PSYC 203 PSYC 205 PSYC 203 PSYC 205 PSYC 203 PSYC 205 PSYC 205 PS	 Complete SOCL 120 to satisfy the Section I Diversity Core Area requirement. Complete POLS 120 or 121 to satisfy additional MACRAO requirements. Complete the following required courses (11 or ECON 201 Principles of Economics-Micro (GEOG 200 World Regional Geography (4) PSYC 200 Introduction to Psychology (4) Complete one course from two of the following credits): A. ECON 202 Principles of Economics-Mac ECON 260 Comparative Economic Syst B. GEOG 120 Introduction to Geography (3) GEOG 202 Geography of North America GEOG 121 Physical Geography (3) GEOG 202 Geography of North America C. POLS 240 Introduction to Public Policy POLS 250 US Political Parties/Elections POLS 260 Comparative Political System POLS 270 International Relations (3) D. EDUC 204 Educational Psychology (3) PSYC 205 Human Growth and Develop PSYC 221 Child Psychology (3) PSYC 250 Abnormal Psychology (3) PSYC 250 Abnormal Psychology (3) PSYC 250 Abnormal Psychology (3) ANTH 271 Medical Anthropology (3) ANTH 275 Physical Anthr and Archeolog ANTH 276 World Archeology (3) SOCL 180 Introduction to Latino Studies SOCL 185 Intro to African-American State SoCL 254 Marriage and Family (3)

plete a m ot 8 credits n ugner om the list of Limited Choice Electives at the end of this section. Courses in social sciences, foreign languages, statistics, computer science and mathematics are recommended.

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 Complex POL: 121 to satisfy the Specific Use of the course of the future of t		OLOGY, A.A. Curriculum Code: 0753		Some co	ncentrations	include lim	ited choice	electives, TI	EGREE nose limited cho
 Diversity Case Area regularized. Complete POLS 13:2: to suicity additional Section II Social Solance MACRAO requirements. Complete the biboring required acurase (9 credits): ANTH 27: Cutual anthropology (0) SOCL 28: Contemporty Solar Proteiner (3) SOCL 29: Contemporty Solar Proteiner (4) ECON 29:	, 1.						the followi	ng list. Not	all courses on a
 2. Complete POLS 120 to satisfy additional Section II Social Science MARAO requirements. 3. Complete the bibring roquires courses (9 credits): MATH 220 Cabla Anthropothy (1) SOCI. 200 Contemporty Social Prohimer (2) SOCI. 200 Contemporty Social Prohimer (2) SOCI. 201 Contemporty Social Prohimer (2) SOCI. 201 Contemporty Social Prohimer (2) SOCI. 201 Research Provides (2) ANTH 227 Medical Anthropothy (1) SOCI. 201 Research Provides (2) ANTH 227 Medical Anthropothy (1) SOCI. 201 Research Provides (2) ANTH 227 Medical Anthropothy (1) SOCI. 201 Research Provides (2) SOCI. 201 Research			-	1	· · ·			. •	
 2. Complete the bibliosing vectors from ductar coverce AACRAC magnetizements. AACRAC magnetize			.1						SPCH
 MARKU requirements. Complete the following requirements. Complete a minimum of 16 creating with a minimum of one pourse from each acothon before: Complete a minimum of 16 creating with a minimum of one pourse from each acothon before: Complete a minimum of 16 creating with a minimum of one pourse from each acothon before: Complete a minimum of 16 creating with a minimum of one pourse from each acothon before: Complete a minimum of 16 creating with a minimum of one pourse from each acothon before: A ANTH 271 Madeal Arkthropology (3) ANTH 272 Model Arkthropology (3) Concellent a minimum of 16 creating with a minimum of one pourse from each acothon before: Concellent a minimum of 16 creating with a minimum of one pourse from each acothon before: Concellent a minimum of 16 creating with a minimum of one pourse from each acothon before: Concellent a minimum of 16 creating with a minimum of one pourse from each acothon before: Concellent a minimum of 16 creating with a minimum of one pourse from each acothon before: Concellent a minimum of 16 creating with a minimum of one pourse from each acothon before: Concellent a minimum of 16 creating with a minimum of one pourse from each acothon before: Concellent a minimum of 16 creating with a minimum of one pourse from each acothon before: Concellent a minimum of 16 creating with a minimum of one pourse from each acothon before: Concellent a minimum of 16 creating with a minimum of one pourse from each acothon before: Concellent a minimum of 16 creating with a minimum of one pourse from each acothon before: Complete and Continues (3) Protis 2501 Contrast and Bratese (3) Strict 170 Contrast and	2.	Complete POLS 120 to satisfy additional Section II Social Science							
 3. Complete the biolowing required courses (8 credits): ANTH 27 Contemports 2500 (2014) 4. Complete an information of the credits with a minimum of one course from ANTH 275 ANTH 275 ANTH 275 Physical Antiropology (8) ANTH 275 ANTH 275 Physical Antiropology (9) ANTH 275 ANTH 275 ANTH 275 ANTH 275 Physical Antiropology (9) ANTH 275 Physical Antirop		MACRAO requirements.							
 Complete the balaxing forgularits doubles (2) Complete the balaxing forgularits doubles (2) Complete a minimum of 16 credits with a minimum of one course from sech sector balaxing forgularity (3) Complete a minimum of 16 credits with a minimum of one course from sech sector balaxing forgularity (3) Complete a minimum of 16 credits with a minimum of one course from sech sector balaxing forgularity (3) Complete in the late balaxing forgularity (3) Complete in the late balaxing forgularity (3) Complete in the late balaxing forgularity (3) Concerning forgularity (3) ECON 120 Proces 200 Concerning forgularity (3) ECON 120 Proces 200 ECON 120 ECON 120 Proces 200 ECON 120 /ul>									
 ANTH 270 Calluda Antimity of SpAN SDCL 280 Rue and Exmany (S) Complete is Scale Hooking (B) Complete S	З.				· · · ·				· · · · · ·
 SOCI, 25. Contraction (3) Complete a minimum of 16 credits with a minimum of one course from each section below. A. KUT 27. Physical Anthropology (3) Columbus the balance of the comparison (2000) (2000) Social 28. Concernationation (2000) Social 28. Concernationation (2000) Social 28. Concernationation (2000) Social 28. Concernationation (2000) Physics (2000) Lis 700, 28. 28. 28. 28. 28. 28. 28. 28. 28. 28.			1						
 Complete a minimum of 16 credits with a minimum of one zourse from sector before: A NTH 27 Physical Anthropology (3) ANTH 27 Physical Anthropology (3) QECG 200 Word Regionel Gaegraphy (4) QECG 200 Economic Geography (3) SCIL 160 Introduction to Laren Studies (3) SCIL 160 Economic Studies (3) SCIL 160 Introduction to Laren Studies (3) SCIL 260 Comparise Company (4) PCLS 250 Comparise Company (4) PCLS 250 Comparise Company (4) PCLS 250 Comparise Partice Electrones (3) PCLS 250 Comparise Politics Systems (3) PCLS 250 Introduction to Agencies (3) SCIL 151 Comparise and Conditions (3) SCIL 152 Conserve and Politics Systems (3) C. Cults 122 Crime Gauses and Conditions (3) SCIL 152 Crime Gauses and Conditions (3) SCIL 150 Comparise SpCH 150 and SCIL 150 the safety Section I Communication (3) SPCH 130 Functional of Particles (5) SCIM 110 Interparised Communication (3) SPCH 130 Functional of Particles (5) SCIM 110 Interparise Communication (3) SPCH 130 Functional of Particles (5) SCIM 110 Interparise Communication (3) SPCH 130 Functional Anthropology (4) SPCH 130 Functional Anthropology (3) SPCH 130 Functional Anthrop				ECON	GRIVIN				
 4. Complete a minimum of 16 credits with a minimum of one pourse from each acotic break track tracks tracks. 6. ANTH 27. Modical Anthropology (0) ANTH 27. Modical Anthropology (0) Soci, 120 Econ 120 Provide anthropology (0) B. ECON 120 Provide anthropology (0) Polits 250 Comparison Economice-Matrice (3) Comparison Economice-Matrice (3) Comparison Economice Anthron (3) Comparison Economice Anthron (3) Comparison Economice Anthron (3) Stript 170 Introduction to Agring (2) Polits 250 Comparison Economice (1) Polits 260 Comparison Economice (1) Polits 260 Comparison Economice (1) Polits 270 Comparison Economice (1) Polits 270 Comparison Economice (1) Polits 270 Polits 270 Polits 270 Polits 270 Polits 270 Polits 270		SOCL 260 Race and Ethnicity (3)		Courses	on the list h	alow:			
Complete a minimum Complete a minimum Complete a minimum of condition (3) APTIS 7 Fig. 20, 21, 21, 12, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13			. 4		210	211 220 2	21, 230, 23	1.240.241.	250, 271, 280, 1
 A. ANTH 27 A. MATH 27 Medical Anthropology (3) A. MITH 27 Mysical Anthropology (3) Mathr 28 Mathr 29 Mathr 29 Mathr 29 Mathr 29 Mathr 29 Mathr 29 Mathr 20 Mathr 20 Mathr 20 Mathr 20 Mathr 29 Mathr 29 Mathr 20 Mathr 2	4.				102.	103. 131.	132, 136, 1	37, 140, 1	41, 145, 146, 1
 A MIT 27 ANTT 27 Prysida Antheopolay (0) Processory (0) Procesory (0) Processory (0) Proce				AIGO	1.62.	171, 173,	175, 195, 2	200, 201, 2	03, 204, 205, 2
 ANTI 127 ANTI 127 Word Achaeology (3) Word Explored Geography (4) GEOG 200 Word Explored Geography (4) GEOG 201 GEOG 201 Word Explored Geography (4) GEOG 202 Word Explored Geography (4) GEOG 201 GEOG 201 Word Explored Geography (4) GEOG 202 Word Explored Geography (4) GEOG 203 SOCL 108 Introduction to Lation Studies (3) Introduction to Lation Studies (3) Introduction to Lation Studies (3) ECON 120 Pewer, Authority and Exchange (4) ECON 202 Principles of Economics-Marce (3) Columbia Vectore Stocownics-Marce (3) Columbia Vectore Stocownics-Marce (3) POLS 250 Columbia Vectore Stocownics-Marce (3) POLS 250 Compatible Policid Systems (3) POLS 250 Columbia Vectore Stocownics-Marce (3) Introduction to Rating (3) PSVC 200 Introduction to Rating (3) SPCH 200 Newshal Communication (3) SPCH 200 Newshal Communication (3)<!--</td--><td></td><td></td><td></td><td></td><td>213.</td><td>228, 229, 2</td><td>231, 236, 24</td><td>0, 251, 252</td><td>2, 256, 257, 267</td>					213.	228, 229, 2	231, 236, 24	0, 251, 252	2, 256, 257, 267
 Decode 20 Word Regional Geography (4) GEOG 20 Word Regional Geography (3) GOL 180 Introduction to Lafine Studies (3) SOCL 185 Introduction to Lafine Studies (3) SOCL 185 Introduction to Lafine Studies (3) SOCL 215 ECON 126 Power, Authority and Exchange (4) ECON 226 Principles of Economics-Metror (3) ECON 226 Principles of Economics Mators (3) ECON 226 Principles of Economics Mators (3) ECON 226 Dergentive Economics (3) ECON 226 Comparitive Following (3) Price Studies (4) Price Studies (4) Price Studies Prior Price Studies (3) Comparitive Following (3) Price Studies (4) Price Studies Prior Price Studies (3) Comparitive Following (3) Price Studies (4) Price Studies (5)<td></td><td></td><td></td><td>BUSN</td><td></td><td></td><td></td><td></td><td>```</td>				BUSN					```
GEOG 203 Econnuclic Geography (1) GEOG 203 Econnuclic Geography (1) SOCL 100 Introduction to Latino Studies (3) SOCL 100 Principles of Econnucli-Materia (3) ECON 202 Principles of Econnucli-Materia (3) PCLS 250 US Political Partial Elections (3) PCLS 270 International Relations (3) POLS 287 International Relations (3) SOCL 204 Marriage and Family (3) C. CLUS 102 Comparise Policial Stylems (1) GERO 100 Introduction to Apilia (3) PSYC 200 Introduction to Psychology (4) PSYC 201 Introduction to Statistica (3) SPECH COMMUNICATION, A.A. Curriculum Code 0130 SPCH 110 Cradies from the following: SPCH 120 Cradies from the following: SPCH 120 Cradies from the following: SPCH 200 International (3) SPCH 200 International (3) SPCH 200 Interoduction to Communication (3) <tr< td=""><td></td><td></td><td></td><td></td><td>101,</td><td>111, 112,</td><td>113, 120, 12</td><td>21, 188, 189</td><td>), 220, 221</td></tr<>					101,	111, 112,	113, 120, 12	21, 188, 189), 220, 221
 Belor Line Control Latin Studies (3) BOCL 185 Introduction to Latin Studies (3) SOCL 185 Introduction to Latin Studies (3) ECON 120 Principles of Economics-Micro (3) ECON 201 Principles of Economics-Micro (3) ECON 202 Principles of Economics Akaro (3) POLS 201 US Policial Partice/Electores (3) POLS 201 US Policial Partice/Electores (3) C. GJUS 102 Onima Heatinos (3) GERO 100 Introduction to Psychology (4) SPCL 201 Introduction to Psychology (3) SPCH 200 Interpreting of Diversity Core Area regularements. Complete a minimum of 6 credits from the following: SPCH 110 Oral Communication (3) SPCH 270 Mass Communication (3) SPCH 270 Introduction to Roy (4) Complete a minimum of 10 credits from the following: SPCH 270 Mass Communication (3) SPCH 270 Mass Communication (3) SPCH 270 Introduction to Computers (3) Ling 230 Introduction (3) SPCH 270 Introduction (3) SPCH 270 Introduction (3) SPCH 270 Mass Communication (3) SPCH 270 Introduction (3) SPCH 270 Mass Communication (3) SPCH 270 Introduction (5) SPCH 270 Introduc			1		114.	130, 170,	180, 204, 2	230, 231, 2	33, 234, 250, 2
 abobe 163 abobe 164 abob			1.		253,	260, 261, 3	270, 280, 28	31, 283	
 BUDE 100 100 (201, 235, 283 (201, 202, 203, 201) B. ECON 120 Principles of Economics-Micro (3) ECON 220 Principles of Economics Micro (3) ECON 280 Comparative Economic Systems (3) POLS 280 Comparative Economic (3) POLS 280 Comparative Policial Systems (3)<td></td><td></td><td></td><td>CJUS</td><td>101,</td><td>102, 103,</td><td>126, 131,</td><td>134, 135, 2</td><td>01, 203, 204, 2</td>				CJUS	101,	102, 103,	126, 131,	134, 135, 2	01, 203, 204, 2
 B. ECON 120 Precipies of Economics-Micro (3) ECON 201 Principles of Economics-Micro (3) ECON 202 Principles of Economics Micro (3) ECON 205 Domparative Economics Systems (3) POLS 250 US Political Farties/Electors (3) POLS 260 Comparative Political Systems (3) POLS 260 Introduction to Statistics (3) POLS 260 Networkal Communication (2) PPH 20 Introduction to Communication (3) POLS 260 Introduction to Payerbology (4) 				1.0					
 B. ECCH 120 B. CON 202 Principles of Economics-Matro (3) ECON 202 Principles of Economics-Matro (3) ECON 202 Principles of Economics-Matro (3) ECON 202 Principles of Economics-Matro (3) POLS 250 Comparative Folicial Systems (3) POLS 270 International Playtons (3) Soci 254 Maringe and Family (3) Maring and Eamily (3) C. Culls 102 Orime Causes and Conditions (3) GERO 100 Introduction to Aging (3) STAT 170 Introduction to Statistics (3) SPECH COMMUNICATION, A.A. Curriculum Code: 0136 Spece 120 A maximum of two credit hours from courses with any of the course codes listed below: SPCH 130 Funcamentials of Public speaking (3) SPCH 130 Funcamential of Dublic speaking (3) SPCH 130 Funcamential of Dublic speaking (3) SPCH 130 Funcamential of 10 contin the Norkplace (3) SPCH 130 Funcamentials of Tublic speaking (3) SPCH 130 Funcamentials of Tublic speaking (3) SPCH 130 Funcamential of Tublic speaking (3) SPCH 130 Funcamentials of Tublic speaking (3) SPCH 120 Introduction 12 (3) Complete a minimum of 10 credits from the following: (Note: State through and topology (4) CPUS 250 Computer a minimum of 10 credits from the following: (Note: State through and place (3) FUE 101 Core late a minimum of 10 credits from the following: (Note: State through and place (3) FUE 101 Core late a minimum of 10 credits from the following: (Note: State through and plac		SOCE 200 Introduction to publicació oditoro (o)		DANC	101,	102, 103,	104, 201, 20	02, 203, 203	1
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 ECON 202 Principles of Economics-Macro (3) ECON 202 Ormparative Founditics Systems (3) POLS 260 Comparative Political Systems (3) POLS 260 Comparative Political Systems (3) POLS 270 International Relations (3) SOCL 254 Marriage and Family (3) C. CJUS 102 Orime Causes and Conditions (3) GERO 100 Introduction to Paghology (4) PSYC 203 Eactal Psychology (3) STAT 170 Introduction to Statistics (3) SPECH COMMUNICATION, A.A. Curriculum Code: 0136 SPECH 200 Fundamentals of Public speaking (3) SPCH 280 Intercoluction (3) SPCH 270 Mass Communication (3) SPCH 280 Intercoluction (3) SPCH 280 Intercoluction (3) SPCH 280 Intercoluction (4) SPCH 280 Intercoluction (3) SPCH 280 Intercoluction (3) SPCH 280 Intercoluction (3) SPCH 290 Otifical Addres pology (4) SPLIL 50 Intercoluction (5) AMT 410 Critical Sys				FREN	115,	116			
 ECON 280 Comparative Feature/Elections (3) POLS 280 Comparative Paties/Elections (3) POLS 280 Comparative Paties/Elections (3) POLS 280 Comparative Paties/Elections (3) SOCL 254 International Relations (3) SOCL 254 Marriage and Family (3) C. CJUS 102 Crime Gauses and Conditions (3) GERO 100 Introduction to Paychology (4) STAT 170 Introduction to Statistics (3) SPECH COMMUNICATION, A.A. Curriculum Code: 0136 Complete the following required courses (9 credits): SPCH 140 Interparonal Communication (3) SPCH 140 Interparonal Communication (3) SPCH 280 Introduction (3) SPCH 280 Interoduction (3) SPCH 270 Mass Communication (3) SPCH 270 Mass Communication (3) SPCH 270 Mass Communication (3) SPCH 270 Interoduction to Linguistics (3) LNN 280 Introduction to Sectist Train (4) POLS 260 Introduction to Paychology (4) 				GRMN	115,	116			
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ANTH 270 Cultural Anthropology (3) CPSC 120 Introduction to Computers (3) LING 230 Introduction to Linguistics (3) PHIL 151 Intro: Logic & Critical Think (4) * POLS 260 Comparative Political Systems (3) PSYC 200 Introduction to Psychology (4)	3	SPCH 110 Oral Communic in the Workplace (3) SPCH 260 Nonverbal Communication (3) SPCH 270 Mass Communication (3) Complete a minimum of 10 credits from the following:							
CPSC 120 Introduction to Computers (3) LING 230 Introduction to Linguistics (3) PHIL 151 Intro: Logic & Critical Think (4) * POLS 260 Comparative Political Systems (3) PSYC 200 Introduction to Psychology (4)	3	SPCH 110 Oral Communic in the Workplace (3) SPCH 260 Nonverbal Communication (3) SPCH 270 Mass Communication (3) K. Complete a minimum of 10 credits from the following: (Note: Students who elect foreign language courses are encouraged to		• • • • • • • • • • • • • • • • • • •					
LING 230 Introduction to Linguistics (3) PHIL 151 Intro: Logic & Critical Think (4) * POLS 260 Comparative Political Systems (3) PSYC 200 Introduction to Psychology (4)	3	 SPCH 110 Oral Communic in the Workplace (3) SPCH 260 Nonverbal Communication (3) SPCH 270 Mass Communication (3) Complete a minimum of 10 credits from the following: (Note: Students who elect foreign language courses are encouraged to take both first-year courses (121 and 122) in the language of their choice.) 	4						
PHIL 151 Intro: Logic & Critical Think (4) * POLS 260 Comparative Political Systems (3) PSYC 200 Introduction to Psychology (4)	3	 SPCH 110 Oral Communic in the Workplace (3) SPCH 260 Nonverbal Communication (3) SPCH 270 Mass Communication (3) Complete a minimum of 10 credits from the following: (Note: Students who elect foreign language courses are encouraged to take both first-year courses (121 and 122) in the language of their choice.) ANTH 270 Cultural Anthropology (3) 	4						
* POLS 260 Comparative Political Systems (3) PSYC 200 Introduction to Psychology (4)	З	SPCH 110 Oral Communic in the Workplace (3) SPCH 260 Nonverbal Communication (3) SPCH 270 Mass Communication (3) I. Complete a minimum of 10 credits from the following: (Note: Students who elect foreign language courses are encouraged to take both first-year courses (121 and 122) in the language of their choice.) ANTH 270 Cultural Anthropology (3) CPSC 120 Introduction to Computers (3)	4						
PSYC 200 Introduction to Psychology (4)	3	SPCH 110 Oral Communic in the Workplace (3) SPCH 260 Nonverbal Communication (3) SPCH 270 Mass Communication (3) I. Complete a minimum of 10 credits from the following: (Note: Students who elect foreign language courses are encouraged to take both first-year courses (121 and 122) in the language of their choice.) ANTH 270 Cultural Anthropology (3) CPSC 120 Introduction to Computers (3) LING 230 Introduction to Linguistics (3)	4			· · ·			
Any foreign language with course numbers 121, 122, 201, or 202 (4)	3	 SPCH 110 Oral Communic in the Workplace (3) SPCH 260 Nonverbal Communication (3) SPCH 270 Mass Communication (3) Complete a minimum of 10 credits from the following: (Note: Students who elect foreign language courses are encouraged to take both first-year courses (121 and 122) in the language of their choice.) ANTH 270 Cultural Anthropology (3) CPSC 120 Introduction to Computers (3) LING 230 Introduction to Linguistics (3) PHIL 151 Intro: Logic & Critical Think (4) 	4				- 		
	3	SPCH 110 Oral Communic in the Workplace (3) SPCH 260 Nonverbal Communication (3) SPCH 270 Mass Communication (3) I. Complete a minimum of 10 credits from the following: (Note: Students who elect foreign language courses are encouraged to take both first-year courses (121 and 122) in the language of their choice.) ANTH 270 Cultural Anthropology (3) CPSC 120 Introduction to Computers (3) LING 230 Introduction to Linguistics (3) PHL 151 Intro: Logic & Critical Think (4) POLS 260 Comparative Political Systems (3) PSYC 200 Introduction to Psychology (4)	4						
	. 3	SPCH 110 Oral Communic in the Workplace (3) SPCH 260 Nonverbal Communication (3) SPCH 270 Mass Communication (3) I. Complete a minimum of 10 credits from the following: (Note: Students who elect foreign language courses are encouraged to take both first-year courses (121 and 122) in the language of their choice.) ANTH 270 Cultural Anthropology (3) CPSC 120 Introduction to Computers (3) LING 230 Introduction to Linguistics (3) PHL 151 Intro: Logic & Critical Think (4) POLS 260 Comparative Political Systems (3) PSYC 200 Introduction to Psychology (4)	4						
	3	SPCH 110 Oral Communic in the Workplace (3) SPCH 260 Nonverbal Communication (3) SPCH 270 Mass Communication (3) I. Complete a minimum of 10 credits from the following: (Note: Students who elect foreign language courses are encouraged to take both first-year courses (121 and 122) in the language of their choice.) ANTH 270 Cultural Anthropology (3) CPSC 120 Introduction to Computers (3) LING 230 Introduction to Linguistics (3) PHL 151 Intro: Logic & Critical Think (4) POLS 260 Comparative Political Systems (3) PSYC 200 Introduction to Psychology (4)	4			4. 			

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GENERAL ASSOCIATE DEGREE

Curriculum Code: 0863

(EFFECTIVE FALL 2003-SUMMER 2008)

This degree is a customized program of study that should be approved by an academic advisor or counselor. A minimum of 60 credits is required and includes the LCC General Education Core requirements. Students must also complete EITHER a minimum of 12 related credits in an area of study of their own choosing OR they must complete the credits listed on a transfer guide. (See Transfer Information in this section of the catalog for a list of institutions for which transfer guides are available.) Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Otlerings for course prerequsite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

The requirements for this program of study are outlined below. Prior to beginning this program, students should meet with an academic advisor or counselor in the Counseling and Advising Center (Suite 2300 of the GVT building, telephone number (517) 483-1904.

REQUIREMENTS	TOTAL: 60 CREDITS
CHOICE 1: General Education Core Areas	16-20 Credits
(See General Education Core Requirements for information	i on how to julfill these
requirements. Core area proticiency exams, where approp	vriate, are available for
each core area.)	
Communication Core Area	3.
Global Perspectives and Diversity Core Area	3-4
Mathematics Core Area	3-4
Science Core Area	4-5
Writing Core Area	3-4
Customized Options (Choose One Option - See Note 1)	40-44 Credits
Option A	
Credits in a Selected Area of Study	12
Elective Credits	28-32
and the second	
Option B	
Transfer Guide Requirements (See Note 2)	Variable
Elective Credits (See Note 3)	Variable
	- Gildere
MINIMUM TOTAL	60

NOTES:

1. Students should meet with an academic advisor or counselor prior to selecting courses for customized options.

- 2. Students should complete the credits required by a transfer institution on a transfer curriculum guide. See Transfer Information in this section of the Catalog for a list of institutions for which transfer guides are available.
- 3. After completing transfer guide requirements, students selecting this option may also have to complete elective credits in order to meet the 60-credit minimum required for this degree.



APPLIED DEGREES AND CERTIFICATES

The programs presented in this section lead to an associate degree in applied arts, an associate degree in applied science, an associate degree in business, or a certificate. These degree and certificate programs are designed primarily for students who seek education and the acquisition of skills needed to enter the job market or to advance their current careers. Not all courses in these programs transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

	•
ACCOUNTING	F 4
Accounting, AB	
Accounting, CA	
Accounting, CPA Exam Prep, AB	55
AGRICULTURE	
Precision Agriculture, AAS	
Precision Agriculture, CA	.56
ARCHITECTURE	- 1
Arch Tech, Residential Design, AAS	
Arch Tech, Residential Design, CA	.58
Architectural Technology, AAS	.59
ART, DESIGN, AND MULTIMEDIA	
Computer Graphics Animation, AAA	.60
Computer Graphics, Multimedia, AAA	
Computer Graphics, Multimedia, CA	
Computer Graphics, Web Design, AAA	
Fine Art Foundation, AAA	
Figure Studies, CA	
Graphic Design, AAA	
Graphic Design, CA	
Humorous Illustration, CC	
Sequential Art, AAA	
Sequential Art, CA	67
AUTOMOTIVE	
Alternate Fuels, CC	e 0
Auto AC/Electrical Accessories, CC	.00. 20
Auto Collision Repair, AAS	
Auto Collision Repair, CA	
Auto Steer/Suspension/Brakes, CC	
Automotive Drive Lines, CC	
Automotive Technology, AAS	.70
Automotive Technology, CA	
Engine Performance/Diagnosis, CC	
	.4.6
AVIATION	
Airframe Maintenance Tech, AAS	
Airframe Maintenance Tech, CA	
Basic Aviation Technology, CD	
Aviation Flight Technology, AAS	
Avionics Flightline Maint, AAS	
Avionics Flightline Maint, CA	
Avionics Installation, CC	
	1
Powerplant Maintenance Tech, CA	.79
BUSINESS	
Business Administration, AB	
E-Business, AB	
E-Business, CA	
International Business, AB	.83
CHILD DEVELOPMENT	
Child Development, AAS	
Child Development, CA	
CDA Credential Training, CC	.85
CIVIL TECHNOLOGY	
Civil Technology, AAS	.86
Surveying and Materials Tech, CC	.86
COMPUTER-AIDED DRAFTING	
AND DESIGN	
CAD/CAM Technician, AAS	87
Computer-Aided Drafting/Design, AAS	
Computer-Aided Drafting/Design, CA	
COMPUTERS	
Computer Network/Communication, AB .	90
Computer Network/Communication, CC .	Ł

selor before enrolling in any course.	
selor before enrolling in any course. Accounting, AB Accounting, CA Accounting, CPA Exam Prep, AB Accounting, CPA Exam Prep, AB Standard Structure Precision Agriculture, AAS Precision Agriculture, CA Standard Structure Arch Tech, Residential Design, AAS Arch Tech, Residential Design, CA Standard Technology, AAS Architectural Technology, AAS Standard Standard Standard Computer Graphics, Multimedia, AAA Computer Graphics, Multimedia, CA Computer Graphics, Wultimedia, CA Start Foundation, AAA Start Foundation, AAA Start Foundation, AAA Start Foundation, AAA Start Foundation, AAA	Computer Programmer/Analyst, AB 92 Computer Programmer/Analyst, CC 93 Computer Repair Technician, CA 93 Computer Security and Controls, AB 94 Info Technology Job Readiness, CC 95 Information Technology Basics, CC 95 Internet for Business, CA 96 Internet for Business, CC 96 Microcomp Database Specialist, AB 97 Microcomp Dupport Specialist, CA 98 Microcomp Duport Specialist, AB 99 MOUS Master Certification Prep, CC 100 PC User Support, CC 101 Windows Programming, CC 101 Windows Programming, CC 101 CONSTRUCTION Residential Building, AAS 102 Residential Building, CA
Graphic Design, CA	Credit Union Management, AB 103 Credit Union Management, CC 103 CRIMINAL JUSTICE
Sequential Art, CA	Correctional Officer, CC
Auto Steer/Suspension/Brakes, CC .70 Automotive Drive Lines, CC .70 Automotive Technology, AAS .71 Automotive Technology, CA .71	Teacher Paraprofessional, AAS
Engine Performance/Diagnosis, CC 72 AVIATION Airframe Maintenance Tech, AAS	Electrical Tech, Control/Maint, CA
Aviation Flight Technology, AAS .75 Avionics Flightline Maint, AAS .76 Avionics Flightline Maint, CA .76 Avionics Installation, CC .77	Customer Energy Specialist, AAS , 113 Customer Energy Specialist, CA 113 FASHION DESIGN Fashion Design Technology, CC 114
Powerplant Maintenance Tech, AAS78 Powerplant Maintenance Tech, CA79 BUSINESS Business Administration, AB80	FIRE SCIENCE Fire Science Academy, CC .115 Fire Science Technology, AAS .116
E-Business, AB	GEOGRAPHIC INFORMATION SYSTEMS GIS/Geospacial Technology, AAS 117 Geographic Information Systems, CA 117
CHILD DEVELOPMENT Child Development, AAS	NEALTH CAREERS Acute Care Nurse Assis/Orderly, CC 118 Basic Emergency Med Services, CA 118 Basic Emergency Medical Tech, CC 119
CIVIL TECHNOLOGY Civil Technology, AAS	Dental Hygienist, AAS
AND DESIGN CAD/CAM Technician, AAS	Health Unit Clerk/Coordinator, CC
COMPUTERS Computer Network/Communication, AB90 Computer Network/Communication, CC91	Medical Insurance Billing, CC

			Ч., •
Nursing, LPN Option, CA			
Nursing, RN Option, AAS		130	ſ
Paramedic, CA		.132	
Pharmacy Technician, CC			·
Phlebotomy Technician, CC			
Radiologic Technology, AAS	• • • •	.134	
Surgical Technology, AAS		:135	
Surgical Technology, CA		.136	
HEATING & AIR CONDITIONING/I	BUILD	HNG	
MAINTENANCE			
Heat & Air Cond/Building Maint, AA	s _.	.137	
Heat & Air Cond/Building Maint, CA		.138	
HEAVY EQUIPMENT	-		1
Heavy Equipment Operator, CA			
Heavy Equipment Repair Tech, AAS		.140	4.
Heavy Equipment Repair Tech, CA		.140	
HOSPITALITY			
Hotel-Motel/Food Management, AB		.141	
NUMAN SERVICES CAREERS			
Addictions, CA		142	
Addictions MCBAP Cert Prep, CC			
Gerontology, CA			
Human Services, AAS			
INDUSTRIAL			
CNC Programming, AAS		1 4 5	
Industrial Technology, AAS			
Industrial Technology, CA			
Machine Maintenance, AAS Machine Repair, CA			
Millwright, CA			
Machinist Toolmaker, AAS			
Tool and Die Maker, CA			
Welding Technology, AAS			
Welding Technology, CA			
		.100	
INTERIOR DESIGN		-	~~~~
	• • • •		
Kitchen/Bath Design Specialist, CA			İ
Interior Design Merchandising, CC .	en nori E	.102	
LANDSCAPE CAREERS			
Horticulture, AAS			
Landscape Architecture, AAS		.154	
LEGAL ASSISTANT			
Legal Assistant, AB			
Legal Assistant Post-Bachelor, CA	••••	.156	
MANAGEMENT			
Advanced Management, CA		.157	Ì
Human Resource Management, A8		158	
Labor Relations, CC		.158	
Management, AB		.159	
Management, CA		160	
Managing Forward, CC		.160	*****
Small Business Management, CC .		161	-
MARKETING	•		
Field Sales and Marketing, AB		162	
Sales Specialist, CA			
Marketing, AB			
Marketing, CA			
MEDIA TECHNOLOGY			
Media Technology, AAS		164	
Media Technology, CA			
MOTION PICTURE			-
· · · · · · · · · · · · · · · · · · ·		160	
Motion Picture Direction, AAS			
Motion Picture Production, AAS	• • • •	107	ŧ

Motion Picture Production, CA
OFFICE ADMINISTRATION
Administrative Office Mgmt, AB
Administrative Office Mgmt, CA
Administrative Office Mgmt, CC
Legal Office Administration, AB 170
Legal Office Administration, CA
Legal Office Administration, CC 171 Medical Office Administration, AB 172
Médical Office Administration, CA172
Medical Office Administration, CC 173
Medical Transcription, AB
Medical Transcription, CA
Medical Transcription, CC
Office Administration, AB
Office Administration, CA
Office Administration, CC
Information and Records Mgmt, AB 178
Office Admin Prof Studies, CC
PERFORMING ARTS
Music , AAA
Music: Commercial, AAA
Music Management, AAA
Theatre, AAA
PHOTOGRAPHIC IMAGING
Photographic Imaging, AAS
Photography, CC
REAL ESTATE
Real Estate, AB
Real Estate, CC
SCIENCE - APPLIED
Chemical Process Technology, AAS
Chemical Process Technology, CA
Chemical Technology, AAS
Environmental Technology, AAS 190
Histologic Technology, AAS
Histologic Technician, CC
Molecular Biotechnology, AAS
SIGN LANGUAGE
Sign Language Interpreter, AAA
Sign Language Interpreter, CA
STAGE TECHNOLOGY
Stage Technology, AAA
Stage Technology, CA
Stage Technology Apprentice, AAS 198
TECHNOLOGY - GENERAL
General Technology, AAS
TRAVEL/TOURISM
Tour Cruise Operations, CC
Travel Agency Operations, CC
Travel and Tourism, AB
TRUCK DRIVER TRAINING
Truck Driver Training, CC
KEY
AB Associate Degree Business
AAA Associate Degree Applied Arts
AAS Associate Degree Applied Science

LANSING COMMUNITY COLLEGE CATALOG 2003-2005 **# 53**

2003-2005 Catalog Lansing Community

-College-

ACCOUNTING ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0162 (Effective Fall 2003 - Summer 2008)

Graduates of this program are qualified to work as a paraprofessional in most areas of accounting, such as financial reporting, cost accounting, governmental accounting, tax preparation and auditing. Typically the paraprofessional works under the supervision of a professional accountant, but may be doing essentially the same types of work. Job titles include full-charge bookkeeper, tax preparer, and internal auditor, among others. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREMENTS		TOTAL: 31 CREDITS
CODE	TIFLE -	CREDIT HOURS
ACCG 210	Principles of Accounting 1	. 4
ACCG 211	Principles of Accounting II	-4
ACCG 220	Intermediate Accounting I	. 4
ACCG 221	Intermediate Accounting II	4
ACCG 230	Cost Accounting	4
ACCG 240	Federal Income Tax I	. 4
ACCG 260	Accounting Systems	. 4.
LEGL 215	Busn Law I, Basic Principles	. 3

LIMITED CHOICE REQUIREMENTS TOTAL: 33-38 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 16-20 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proticiency exams, where appropriate, are available for each core area.)

occorri operio anti	(A-1)	
	Communication Core Area	3.
	Global Perspectives and Diversity Core Area	3-4
	Mathematics Core Area	3-4
	Science Core Area	4-5
	Writing Core Area	3-4
CHOICE 2:	Accounting Specialty Area	11-12 Credits
ACCG 160	Payroll Systems and Taxes	. 2
AGCG 231	Managerial Accounting	· 4
ACCG 235	Budgeting	2
ACCG 241	Federal Income Tax II	. 4
ACCG 250	Advanced Accounting	- 4
ACCG 280	Governmental Accounting	4 .
ACCG 290	Auditing	. 3
CHOICE 3:	Other Accounting & Business Related (See N	lote 1) 6 Credits
ACCG 245	Accounting Internship	2
ACCG 271	Principles of Finance	3
INSU 265	Principles Risk and Insurance	. 3
LEGL 219	Adv Bush Law for Acct Majors	4
	MINIMUM TOTAL	64

NOTES:

1. Students may also select from unchosen courses in CHOICE 2.

 For graduation from this program, a student must have earned a minimum 2,00 grade point average in courses with an ACCG prefix.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	1)	前	۲۷.
ACCG 210	ACCG 211	ACCG 220	ACCG 221
LEGL 215	ACCG 260	ACCG 230	Lim.Ch.
Lim.Ch.	Lim.Ch.	ACCG 240	Lim, Ch.
Lim,Ch.	Ĺím.Ch.	Lim.Ch.	Lim.Ch.
	Lim.Ch.		Lim.Ch.

ACCOUNTING CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0714 (Effective Fall 2003 - Summer 2008)

Certificate holders qualify for clerical-level accounting positions that frequently include the need for general office skills in addition to accounting. Job titles include billing clerk, bookkeeper, payroll clerk, accounts receivable clerk, and accounts payable clerk. In smaller companies, a certificate holder may do all accounting tasks other than those handled by the company's CPA firm or other outside accountaris.

REQUIREMEN	NTS	TOTAL: 17 CREDITS
CO05	TILL	CREDIT HOURS
ACCG 160	Payroll Systems and Taxes	. 2
ACCG 210	Principles of Accounting 1	. 4
ACCG 211	Principles of Accounting II	4
ACCG 260	Accounting Systems	. 4
OADM 215	Information Records Mgmt 1	. 3
	DICE REQUIREMENTS	TOTAL: 11-13 CREDITS
Complete the	indicated number of credits from each	CHOICE listed below.
CHOICE 1:	Accounting Specialty	2-3 Credits
ACCG 140	Income Tax Preparation	. 3
ACCG 235	Budgeting	2
CHQICE 2:	Word Processing	3 CreditsC
ABS 119	Microsoft Word	3
CABS 219	Advanced Microsoft Word	3
CHOICE 3:	Office Skills	3 Credits
OADM 203	Protessional Office Procedures	
OADM 220	Admin Mgmt in Organizations	3
CHOICE 4:	Written Communication	3-4 Credits
WRIT 121	Composition 1	- 4
WRIT 127	Business Writing	3
ELECTIVES		TOTAL: 2 CREDITS

Complete the indicated number of credits in courses of your choice.

MINIMUM TOTAL

30

SUGGESTED COURSE SEQUENCE

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ACCG 210	ACCG 160
OADM 215	ACCG 211
Lim.Ch.	ACCG 260
Lim.Ch.	Lim.Ch.
Lim.Ch.	Elec.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL RECORDENTS AS STATED. THE CALV OFFICIAL EXCLUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REDSTRAT'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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ACCOUNTING, CPA EXAM PREP ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0255 (Effective Fall 2003 - Summer 2008)

This curriculum is intended for people with a bachelor's degree in another field who want to make a career change to accounting. The focus is on learning the material necessary to pass the exam to become a Certified Public Accountant (C.P.A.). Virtually all jobs in accounting and auditing are available to the C.P.A. The main job a C.P.A. is eligible to do that other accountants cannot is that of external auditor, which involves expressing an independent opinion on financial statements prepared by others. Some public accounting experience is required prior to certification in some states. The student is advised to review the requirements for certification as defined by the State Board of Accountancy. In addition, students should contact the Board of Accountancy, State of Michigan, Consumer and Industry Services to receive an authoritative list of requirements to sit for the C.P.A. exam.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

CREDITS	TOTAL: 42	INTS	REQUIREME
EDIT HOURS	Ci	TITLE	CODE
4	· · ·	Principles of Accounting I	ACCG 210
- 4		Principles of Accounting II	ACCG 211
4		Intermediate Accounting 1	ACCG 220
. 4		Intermediate Accounting II	ACCG 221
4		Cost Accounting	ACCG 230
4		Federal Income Tax I	ACCG 240
4		Federal Income Tax II	ACCG 241
4		Accounting Systems	ACCG 260
. 3		Auditing	ACCG 290
· · 3		Busn Law I, Basic Principles	LEGL 215
. 4		Adv Busn Law for Acct Majors	LEGL 219

LIMITED CHOICE REQUIREMENTS TOTAL: 20-24 CREDITS Complete the indicated number of credits from each CHOICE listed below.

	General Education Core Areas Education Core Requirements for information on h Core area proficiency exams, where appropriate, a.)	
	Communication Core Area	3
	Global Perspectives and Diversity Core Area	3-4
	Mathematics Core Area	3-4
	Science Core Area	4-5
	Writing Core Area	3-4
CHOICE 2:	Governmental/Fund Accounting	4 Credits
ACCG 250	Advanced Accounting	. 4
ACCG 280	Governmental Accounting	4
· .	MINIMUM TOTAL	62

NOTE:

 Presenting evidence of an earned baccalaureate degree from an accredited college or university would fulfill all General Education Core requirements.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

<u> </u>	ji j		開	IV
ACCG 210	ACCG 211		ACCG 220	ACCG 221
LEGL 215	ACCG 260		- ACCG 230	ACCG 241
Lim.Ch.	LEGL 219	÷.	ACCG 240	ACCG 290
Lim.Ch.	Lim,Ch.		. Lim.Ch.	Lim.Ch.
				Lim Ch

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT COMPLETED BY THE REGISTRAP'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER THEY INTEND TO GRADUARE.

AGRICULTURE

2003-2005 Catalog Lansing Community

College

PRECISION AGRICULTURE ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0896 (Effective Fall 2003 - Summer 2008)

This program prepares students for positions in site specific agricultural management, sustainable development, and related technological applications in today's agribusiness operations. Positions such as integrated pest management technologists, custom applicators, technology resource managers, crop advisory specialists, and dealer consultants are some of the newly-evolving careers in this exploding technology field. Emphasis on the geospatial computer technologies of Geographic Information Systems (GIS) and Global Positioning Systems (GPS) as well as remote sensing will be stressed. In addition, State Department of Agriculture pesticide re-certification credits are available upon successful completion of specific courses within this program. The National Science Foundation has selected this program as a national model curriculum. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES.

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Manufacturing and Land Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREME	INTS	TOTAL: 68 CR	EDITS
CODE	TITLE	CREDIT	HOURS
AGRI 101	Principles/Precision Agritech		2
AGRI 106	Disease/Insect Agrinomic Crops		2
* AGRI 200 1	Vegetation and Weed Management		3
AGRI 201	Prin/Sustainable Agriculture		3
AGRI 202	Agri Soils and Crop Management		3 '
AGRI 211	Agricultural Crop Production		3
AGRI 212	Vegetable Crop Production		З
AGRI 213	Ag Site Specific Research Tech		3
BIOL 120	Environmental Science	· . ·	4
GRET 205	Principles Geographic Info Sys		3
GRET 210	Global Positioning Systems		3
GRET 240	Cartography in GIS		з
GRET 241	Remote Sens/AirPhoto Interpret		3
GRET 243	ORACLE/Geographic Info Sys		3
GRET 253	Basics of ARC/View	•	з
GRET 255	Beginning ARC/Info		3
GRET 258	ARC/View Extensions G.I.S.		-3
HORT 102	Intro Ornamental Horticulture		3
LAND 282	Computer Draft/Dsgn Land Arch		. 3
MATH 119	Investigations with Math		3
MGMT 234	Diversity in the Workplace		. З
SPCH 110	Oral Communication in the Workplace		3
WRIT 124	Technical Writing		3
	OICE REQUIREMENTS a indicated number of credits from each CH	TOTAL: 0 CR OICE listed below.	

 CHOICE 1:
 General Education Core Areas
 0 Credits

 (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

¥	Communication Core Area (See Note 1)	U
	Global Perspectives and Diversity Core Area (See Note 1)	0
	Mathematics Core Area (See Note 1)	Ó
	Science Core Area (See Note 1)	0
	Writing Core Area (See Note 1)	0
		68

Notes:

 Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1.	. U	li .	IV -	
AGRI 101	AGRI 106	AGRI 200	AGRI 201	
GRET 205	AGRI 202	AGRI 211	AGRI 212	
GRET 240	BIOL 120	GRET 210	AGRI 213	
HORT 102	GRET 241	GRET 243	GRET 255	
LAND 282	GRET 253	GRET 258	MATH 119	
WRIT 124	SPCH 110	MGMT 234		

PRECISION AGRICULTURE CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0852 (Effective Fall 2003 - Summer 2008)

Students completing this certificate will be prepared for entry level positions in precision agriculture and sustainable development, and its various application areas in the agribusiness arena. Positions as pest scouts, custom applicators; technology resource technicians, and crop advisory specialists are a few of the positions available. This certificate provides basic computer skills as well as background and hands-on experience in GIS and GPS technologies.

REQUIREME	NTS	TOTAL: 34 CREDITS
CODE	TITLE	CREDIT HOURS
AGRI 101	Principles/Precision Agritech	. 2
AGRI 106	Disease/Insect Agrinomic Crops	. 2
AGRI 200	Vegetation and Weed Management	3
AGRI 201	Prin/Sustainable Agriculture	. 3
AGRI 202	Agri Soils and Crop Management	3
GRET 205	Principles Geographic Info Sys	3
GRET 210	Global Positioning Systems	· 3
GRET 253	Basics of ARC/View	3
GRET 255	Beginning ARC/Info	3
HORT 102	Intro Ornamental Horticulture	. 3
LAND 100	Intro to Landscape Dratting	3
LAND 282	Computer Draft/Dsgn Land Arch	3

34

MINIMUM TOTAL

SUGGESTED COURSE SEQUENCE

f ,·		
AGRI 101	AGRI 200	· · · ·
AGRE 106	AGRI 201	
GRET 205	AGRI 202	
GRET 253	GRET 210	
HORT 102	GRET 255	
LAND 100	· · · · · · · · · · · · · · · · · · ·	
LAND 282		and the second second second second second second second second second second second second second second second

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DECHEE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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ARCH TECH, RESIDENTIAL DESIGN **ASSOCIATE IN APPLIED SCIENCE DEGREE**

Curriculum Code: 0758 (Effective Fall 2003 - Summer 2008)

This degree option will provide architectural students with the opportunity to study all aspects of single and multi-family residential design and construction. Areas of required study include residential design theory, preparation of residential working drawings, construction techniques, construction materials, residential landscaping, residential interiors, computer graphics, presentation techniques, structural design, and architectural history. Students will have the opportunity to take a cross- disciplinary array of technology courses, preparing for work in all segments of the residential design/build markets. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION *

Contact the Construction and Maintenance Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREM	ENTS	TOTAL: 41 CREDITS
CODE	TITLE	CREDIT HOURS
ARCH 100	 Intro to Architecture Drawing (See Note 	∋1) 3
ARCH 101	Residential Detailing	4
ARCH 102	Residential Drawing	4
ARCH 121	Visual Communication I	· . 3
ARCH 128	Residential Design	2
ARCH 271	Structural Theory	4
ARTS 102	Design & Communication	. 3
BLDT 281	MI Residential & Bidg Codes	. 3
LAND 132	Residential Landscaping	2
MATH 119	Investigations with Math	3
OADM 275	Cultural Differences in Business	3
PHYS 120	The Art of Physics	
WRIT 124	Technical Writing	3
		č
	OICE REOUIREMENTS indicated number of credits from each C	TOTAL: 29-33 CREDITS HOICE listed below.
CHOICE 1: `	General Education Core Areas	0 Credits
(See Genera	I Education Core Requirements for informa	ation on how to fulfill these
requirements	. Core area proficiency exams, where ap	propriate, are available for
each core an	ea.)	
	Communication Core Area (See Note 2	?) · 0
	Global Perspectives and Diversity Core	Area (See Note 2) 0
	Mathematics Core Area (See Note 2)	0.
	Science Core Area (See Note 2)	0
	Writing Core Area (See Note 2)	a 0
CHOICE 2:	Computer Graphics	8-10 Credits
ARCH 221	Architectural DataCAD 1	. 4
ARCH 222	Architectural DataCAD II	. 4
ARCH 225	Arch DataCAD Independent Study	1-4
ARCH 231	Architectural AutoCAD 1	4
ARCH 232	Architectural AutoCAD II	. 4
ARCH 235	Arch AutoCAD Independent Study	1-4
ARCH 237	Arch Computer Rendering	3
1. A.		-
CHOICE 3:	Building Trades	7-8 Credits
BLDT 100	Introduction to Construction	`. <u> </u> 3
BLDT 121	Residential Framing	4
BLDT 277	Construction Cost Estimating	4
•		
CHOICE 4:	Materials Structures and Systems	7-8 Credits
ARCH 273	Environmental Systems	4
ARCH 276	Alternative Structures	3
ARCH 278	Building Science	4
ARCH 283	Materials of Construction	4
-		. 7

CHOICE 5: ARCH 142 ARCH 146	History Architectural History II. Preser/Adaptive Reuse Architec	· · · ·	3 Credits 3 3
CHOICE 6: INTR 151 INTR 190	Interior Design Computer-Aided Kitchen Design Interior/Materials/Equipment	• • • •	4 Credits 4 4
	MINIMUM TOTAL	1. 1. p.	70

MINIMUM TOTAL

NOTES:

1. If students have more than a year of high school drafting or equivalent work experience, see an advisor in the Construction and Maintenance Technologies Department to see if ARCH 100 can be waived.

2. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

t.	11	10	IV
ARCH 100	ARCH 101	ARCH 128	ARCH 102
ARTS 102	ARCH 121	BLDT 281	ARCH 271
WRIT 124	MATH 119	PHYS 120	Lim.Ch.
Lim.Ch.	OADM 275	Lim.Ch.	Lim.Ch.
	Lim.Ch.	Lim.Ch.	Lim.Ch.

LAND 132

Lim.Ch,

Lim.Ch. Lim.Ch.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PHION TO THE SEMESTER THEY INTEND TO GRADUATE.

2003-2005 Catalog Lansing Community College

ARCH TECH, RESIDENTIAL DESIGN CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0631 (Effective Fall 2003 - Summer 2006)

This certificate program consists of practical hands-on courses that concentrate on single-family and multi-family residential design. This program provides students with the necessary technical knowledge for the design and preparation of residential working drawings, including: residential design theory, construction materials and techniques, residential interiors, presentation drawing techniques, and computer graphics.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Construction and Maintenance Technologies Department, Gannon Vocational Technical Center, Room 1380, telephone number (517) 483-1336.

NTS	TOTAL: 23 CR	EDITS	
TITUE	- CREDI	r HOURS	
Intro to Architecture Drawing (See Note 1	1) .	3	
Residential Detailing		4	
Residential Drawing		• 4	
Visual Communication I	11.	3	
Residential Design		2 .	
Building Science		4	
MI Residential & Bldg Codes		. Э	•
Computer Graphics Architectural DataCAD I	8 (Credits 4	
	TITLE Intro to Architecture Drawing (See Note a Residential Detailing Residential Drawing Visual Communication I Residential Design Building Science MI Residential & Bldg Codes OICE REOUIREMENTS indicated number of credits from <u>each</u> CH	TITLE CREDI Intro to Architecture Drawing (See Note 1) Residential Detailing Residential Drawing Visual Communication I Residential Design Building Science MI Residential & Bldg Codes TOTAL: 18-19 CF OICE REQUIREMENTS TOTAL: 18-19 CF indicated number of credits from each CHOICE listed below Computer Graphics	TITLE CREDIT HOURS Intro to Architecture Drawing (See Note 1) 3 Residential Detailing 4 Residential Drawing 4 Visual Communication I 3 Residential Design 2 Building Science 4 MI Residential & Bldg Codes 3 OICE REQUIREMENTS TOTAL: 18-19 CREDITS indicated number of credits from each CHOICE listed below. Computer Graphics 8 Credits

	MINIMUM TOTAL	41
CHOICE 4:	Architectural Related (See Note 2)	3 Credits
INTR 190	Interior/Materials/Equipment	4
INTR 151	Computer-Aided Kitchen Design	. 4
CHOICE 3:	Interior Design	4 Credits
ARCH 283	Materials of Construction	4
ARCH 276	Alternative Structures	3
ARCH 273	Environmental Systems	4
ARCH 271	Structural Theory	. 4
CHOICE 2:	Materials, Structures, and Systems	3-4 Credits
ARCH 232	Architectural AutoCAD II	4
ARCH 231	Architectural AutoCAD I	4.
ARCH 222		
A D Ci L O O O	Architectural DataCAD II	1

MINIMUM TOTAL

NOTES:

1. If students have more than a year of high school drafting or equivalent work experience, see an advisor in the Construction and Maintenance Technologies Department to see if ARCH 100 can be waived.

2. CHOICE 4 allows for completion of courses which relate to specific career preparation for the field of residential design and have not been applied in any of the above categories. Students should consult with a program advisor for specific course options.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

	ų .	III	
ARCH 100	ARCH 101	ARCH 102	
ARCH 121	ARCH 128	Lim.Ch.1	
BLDT 281	ARCH 278	Lim.Ch.3	
Lim.Ch.2	Lim.Ch.1	Lim.Ch.4	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY. ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

ARCHITECTURAL TECHNOLOGY ASSOCIATE IN APPLIED SCIENC SCIENCE DISHING

Curriculum Code: 0233 (Effective Fall 2003 - Summer 2008)

The Architectural Studies Program offers students interested in the field of architecture a comprehensive program of study, involving all aspects of the contemporary architectural profession. Graduates of this program are prepared to work as para-professionals in the offices of registered architects, engineers, interior designers, residential designers and builders, component suppliers and manufacturers, assisting those offices with the preparation of drawn documentation, design work, research, and field supervision. Students within this option area are also prepared to pursue a higher degree in architecture. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Construction and Maintenance Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREME	NTS		TOTA	L: 48 CF	EDITS
CODE	TITLE			CREDI	r HOURS
ARCH 100	Intro to Architecture Drawing (See Note	e 1)			3
ARCH 101	Residential Detailing				4
ARCH 102	Residential Drawing				4
ARCH 121	Visual Communication I	ч ^с .,			3
ARCH 201	Commercial Design				4
ARCH 202	Commercial Drawing				.4
ARCH 211	Design Studio				З
ARCH 271	Structural Theory		1.1		. 4
ARTS 102	Design & Communication				Э
BLDT 281	MI Residential & Bldg Codes				3
MATH 119	Investigations with Math				3
OADM 275	Cultural Differences in Business				.3
PHYS 120	The Art of Physics				. 4
WRIT 124	Technical Writing				З
	DICE REQUIREMENTS Indicated number of credits from each C			21-24 CR	
	Concerni Education Core Areas				

HOICE 1: General Education Core Areas 0 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area (See Note	2) 0
	Global Perspectives and Diversity Core	
	Mathematics Core Area (See Note 2)	0
	Science Core Area (See Note 2)	. 0
	Writing Core Area (See Note 2)	. 0
CHOICE 2:	Computer Graphics	8-10 Credits
ARCH 221	Architectural DataCAD I	4
ARCH 222	Architectural DataCAD II	4
ARCH 225	Arch DataCAD Independent Study	1-4
ARCH 231	Architectural AutoCAD I	
ARCH 232	Architectural AutoCAD II	4
ARCH 235	Arch AutoCAD Independent Study	1-4
ARCH 237	Arch Computer Rendering	Э
CHOICE 3:	Materials, Structures and Systems	7-8 Credits
ARCH 273	Environmental Systems	4
ARCH 276	Alternative Structures	. 3
ARCH 278	Building Science	4
ARCH 283	Materials of Construction	4
BLDT 277	Construction Cost Estimating	4

CHOICE 4:	History and Preservation	 ••		6 Credits
ARCH 141	Architectural History I			Э
ARCH 142	Architectural History II		÷.	3
ARCH 146	Preser/Adaptive Reuse Architec			. 3

MINIMUM TOTAL

NOTES:

- Students having more than one year of high school orafting or equivalent work 1. experience should see an advisor in the Construction and Maintenance Technologies Department to see if ARCH 100 can be waived.
- 2. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

<u> </u>	8	W .	١٧
ARCH 100	ARCH 101	ARCH 102	ARCH 201
ARTS 102	ARCH 121	ARCH 211	ARCH 271
WRIT 124	MATH 119	BLDT 281	OADM 275
Lim.Ch.	Lim.Ch.	PHYS 120	Lim,Ch.
· .	×		Lim.Ch.

ARCH 202

Lim.Ch. Lim.Ch.

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STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THAY INTEND TO GRADUATE.

ART, DESIGN, AND MULTIMEDIA

College

COMPUTER GRAPHICS ANIMATION ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0284 (Effective Fall 2003 - Summer 2008)

A computer animator is an artist who designs for video and film and uses a computer as a primary tool. Animators must have creative abilities and design, drawing, problem-solving; production, communication, and presentation skills. Computer animators are employed in advertising, video production, the motion picture industry (special effects to full cartoon features), and in the growing multimedia industry, creating games, training materials, and presentations. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

Contact the Art, Design and Multimedia Program, Academic and Office Facility, Room 314, telephone number (517) 483-1476.

		TOTAL: 68 CREDITS
REQUIREMEN		CREDIT HOURS
CODE	TITLE	. 3
ARTS 102	Design & Communication	3
ARTS 131	Drawing I	3
ARTS 132	Figure Drawing	3
ARTS 133	Surface Anatomy for Artists	3
ARTS 151	Computer Graphics/Illustration	3
ARTS 171	Computer Graphics/Digital Imag	3
ARTS 216	Humorous Illustration I	3
ARTS 225	Comic Book Illustration	3
ARTS 226	Storyboards	. 3
ABTS 228	Advanced Digital Imaging	. 4
ARTS 232	Comp Graphics/2-D Animation	· 4
ARTS 234	Comp Graphics/3-D Animation I	4
ARTS 235	Comp Graphics/3-D Animation II	. 3
ARTS 236	Computer Graphics/Production	
ARTS 236	Comps and Animatics	
ARTS 269	The Portfolio	
ARTS 281	Art Internship	3
FILM 118	Film Production I	. 4
	History of Art II	4
HUMS 212	The Art of Geometry (See Note 1)	3
MATH 118	The Art of Physics	4
PHYS 120	THE ALL OF LINESS	

TOTAL: 3-4 CREDITS LIMITED CHOICE REQUIREMENTS Complete the indicated number of credits from each CHOICE listed below.

3-4 Credits CHOICE 1: General Education Core Areas (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

MINIMUM TOTAL	73
Witting Core Aroa	
Writing Core Area	ə-4
Science Core Area (See Note 2)	3-4
Mathematics Core Area (Dee Hote C)	0
Mathematics Core Area (See Note 2)	0
Global Perspectives and Diversity Core Area (See Note 2)	-
Communication Core Area (See Note 2)	0
our, See Area (See Note 2)	U

1. MATH 118 is the minimum Math requirement to meet the General Education Core Math requirement for this curriculum. Students wishing to transfer to a four-year college should see an Art, Design & Multimedia Program advisor for appropriate Math Core selections.

Students completing REQUIREMENTS have fulfilled the requirements for this Core area

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

	16	MI	١٧
1 ARTS 102 ARTS 131 FILM 118 PHYS 120	ARTS 132 ARTS 151 ARTS 171 MATH 118	ARTS 133 ARTS 216 ARTS 234 HUMS 212 Lim Ch.	ARTS 225 ARTS 228 ARTS 232 ARTS 235

ARTS 226 ARTS 236 ARTS 238 ARTS 269 ARTS 281

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL RECOMPLEMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS WRITATED WHEN STUDENTS APPLY FOR A DESIREE OR CERTIFICATE, STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER FILOR TO THE SEMESTER THEY INTEND TO GRADUATE.

COMPUTER GRAPHICS. MULTIMEDIA ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0194 (Effective Fail 2003 - Summer 2008)

A multimedia designer is a computer artist who uses many electronic tools to create interactive art. Multimedia designers must have creative abilities and design, drawing, problem-solving, production, communication, and presentation skills. Multimedia is a cooperative process. The multimedia designer should expect to work as part of a team which may include animators, graphic designers, photographers, audio and video producers, writers and others. Employment can be with advertising agencies, on-line magazines and newspapers, in-house training in the public and private sector, and the education/ entertainment industry. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* for skills assessment and advising information.

INFORMATION

Contact the Art, Design and Multimedia Program, Academic and Office Facility, Room 314, telephone number (517) 483-1476.

REQUIREME	NTS		TOTAL: 66 CREDITS
CODE	TITLE		CREDIT HOURS
ARTS 102	Design & Communication		· 3
ARTS 131	Drawing I		. 3
ARTS 132	Figure Drawing		
ARTS 151	Computer Graphics/Illustration		3 -
ARTS 162	Typography	. •	3
ARTS 171	Computer Graphics/Digital Imag		3
ARTS 173	Computer Graphics/Web Design	1	3
ARTS 216	Humorous Illustration I		3
ARTS 228	Advanced Digital Imaging		3
ARTS 229	Comp Graphics/Adv Web Design		4
ARTS 232	Comp. Graphics/2-D Animation		. 4
ARTS 234	Comp Graphics/3-D Animation 1		• 4
ARTS 235	Comp Graphics/3-D Animation II		4
ARTS 236	Computer Graphics/Production		. 3
ARTS 269	The Portfolio		2
ARTS 281	Art Internship	· · ·	. 3
FILM-118	Film Production I		4
MATH 118	The Art of Geometry (See Note 1)		3.
MTEC 120	Audio Production		4 -
PHYS 120	The Art of Physics		. 4
			4

LIMITED CHOICE REOUREMENTS TOTAL: 6-8 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

 CHOICE 1:
 General Education Core Areas
 6-8 Credits

 (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)
 Communication Core Area (See Note-2)
 0

Global Perspectives and Diversity Core Area	3-4
Mathematics Core Area (See Note 2)	σ
Science Core Area (See Note 2)	Q
Writing Core Area	- 3-4
MINIMUM TOTAL	72

NOTES:

 MATH 118 is the minimum Math requirement to meet the General Education Core Math requirement for this curriculum. Students wishing to transfer to a four-year college should see an Art, Design and Multimedia Program advisor for appropriate Math Cora selections.

 Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see *Course Descriptions* to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time; have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for belp with adjustments.

					· · ·		
3	1	11		III.		N .	÷,
ARTS	102	ARTS 1	132	ARTS	173	ARTS 229	
ARTS	131	ARTS 1	151	ARTS	216	ARTS 232	
ARTS	162	ARTS 1	171	ARTS	228	ARTS 235	•
FILM 1	118	PHYS	120	ARTS	234	MTEC 120	1.1
MATH	118	Lim.Ch.	,				

ARTS 236 ARTS 269 ARTS 281

Lim.Ch:

COMPUTER GRAPHICS. MULTIMEDIA CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0857 (Effective Fail 2003 - Summer 2008)

This certificate of achievement is designed for students who hold a post secondary degree (A.A., B.A., B.F.A., or M.F.A.) in the visual arts and wish to acquire or enhance their computer graphics skills to prepare for employment in the animation and multimedia fields.

RÉQUIREME	NTS I	'OTAL:	40 CRE	DITS
CODE	TITLE	1	. CREDIT I	HOURS
ARTS 151	Computer Graphics/Illustration (See Note 2)			:3
ARTS 171	Computer Graphics/Digital Imaging (See Not	e 2)		З
ARTS 173	Computer Graphics/Web Design			3
ARTS 195	Employ/Busn Issues for Artists			. 1
ARTS 228	Advanced Digital Imaging			з
ARTS 229	Comp Graphics/Adv Web Design			- 4
ARTS 232	Comp Graphics/2-D Animation (See Note 2)			4
ARTS 234	Comp Graphics/3-D Animation 1		- 1.	4
ARTS 235	Comp Graphics/3-D Animation II			- 4
ARTS 236	Computer Graphics/Production			з.
ARTS 237	Comp Graphic/Flash Game Design (See Not	e 2) -		. З
ARTS 269	The Portfolio			2
ARTS 281	Art Internship			Э
	MINIMUM TOTAL	- -		40

NOTES:

 It is recommended that all students entering this curriculum have computer experience in both Windows NT and Macintosh Operating Systems. This experience may come from life or work experience, or other studies, as well as CABS 100 Seminars - Introduction to Windows NT and Introduction to the Macintosh. Students should consult with an advisor in the Art, Design and Multimedia Program if they are not sure about their computer skill level.

 Students in this curriculum may be granted approval to waive the prerequisites for this course by contacting an advisor in the Art, Design and Multimedia Program.

SUGGESTED COURSE SEQUENCE

l <u> </u>	
ARTS 151 ARTS 173 ARTS 229 ARTS 236	
ARTS 171 ARTS 228 ARTS 235 ARTS 269	
ARTS 195 ARTS 232 ARTS 237 ARTS 281	
ARTS 234	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO. THE SEMESTER THEY INTEND TO GRADUATE.

COMPUTER GRAPHICS, WEB DESIGN ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0914 (Effective Fall 2003 - Summer 2008)

A Web designer combines type, graphics, animation, sound, and programming to create a complete experience for the Web visitor. The Web designer should have a basic fluency in all aspects of site development and must learn to balance content and quality concerns with those of e-commerce. The Web designer can write code and create graphics, develop and organize content, build the structure of the site, and assist with interface issues. Web designers, marketing professionals, engineers, and computer technicians. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see the *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Art. Design and Multimedia Program, Academic and Office Facility, Room 314, telephone number (517) 483-1476.

REQUIREME	INTS	TOTAL: 66 CREDITS
CODE	TIFLE	CREDIT HOURS
ARTS 102	Design & Communication	3
ARTS 131	Drawing I	. 3
ARTS 132	Figure Drawing	3
ARTS 151	CG/Illustration	3
ARTS 153	Conceptual Illustration	3
ARTS 162.	Typography	3
ARTS 171	Computer Graphics/Digital Imag	3
ARTS 173	Computer Graphics/Web Design	. 3
ARTS 228	Advanced Digital Imaging	3
ARTS 229	Comp Graphics/Adv Web Design	4
ARTS 236	Computer Graphics/Production	3
ARTS 237	CG/Flash Game Design	3
ARTS 269	The Portfolio	2
ARTS 281	Art Internship	3
CISB 119	Intro Window Prog Visual BASIC	. 4
CISB 137	Introduction to Oracle: SQL	3
CISB 203	Developing Pages for the Web	3
CISB 204	Commercial Internet Site Mgmt	3
CISB 253	WWW Interactive Programming	4
MATH 118	The Art of Geometry (See Note 1)	3.
PHYS 120	The Art of Physics	4

LIMITED CHOICE REQUIREMENTS TOTAL: 6-8 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core 6-8 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

MINIMUM TOTAL		72
Writing Core Area		3-4
Science Core Area (See Note 2)		 0
Mathematics Core Area (See Note 2)		. 0
Global Perspectives and Diversity Core Area		3-4
Communication Core Area (See Note 2)	•	0

NOTES:

 MATH 118 is the minimum Math requirement to meet the General Education Core Math requirement for this curriculum. Students wishing to transfer to a four-year college should see an Art, Design and Multimedia Program Advisor for appropriate Math Core selections.

Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	'n	III.	iv .	
ARTS 102	ARTS 132	ARTS 151	ARTS 162	
ARTS 131	ARTS 153	ARTS 228	ARTS 229	
CISB.137	ARTS 171	CISB 203	CISB 204	
MATH 118	ARTS 173	PHYS 120	CISB 253	
Lim.Ch.	CISB 119	Lim.Ch.		

ARTS 236 ARTS 237 ARTS 269 ARTS 281

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE CALLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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College

10-13 Credits

FINE ART FOUNDATION ASSOCIATE IN APPLIED ARTS

Curriculum Code: 0271 (Effective Fall 2003 - Summer 2008)

This curriculum is designed for artists who wish to expand their creative horizons or refine their artistic style. The emphasis is on the exploration of an artist's abilities through the use of traditional materials and techniques. Painting, drawing, printmaking, and watercolor are fine arts. A career in fine arts requires dedication, discipline, and sacrifice. Success can come slowly in this visual art, and most artists do their best work after years of experience. Fine artists are self-employed professionals who sell their work through artist's representatives, galleries, art tairs, and juried exhibitions. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREBEQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Art, Design and Multimedia Program, Academic and Office Facility, Room 314, telephone number (517) 483-1476.

REQUIREMENTS		TOTAL: 44 CREDITS
CODE	TITLE -	CREDIT HOURS
ARTS 102	Design & Communication	3
ARTS 103	3-Dimensional Design	3
ARTS 131	Drawing I	3
ARTS 132	Figure Drawing (See Note 1)	3
ARTS 133	Surface Anatomy for Artists	. 3
ARTS 136	Figure Sculpture	4
ARTS 140	Printmaking I	4
ARTS 145	Screen Printing I	. 4
ARTS 190	Matting and Framing Techniques	. 1
ARTS 200	Painting #	. 4
AFITS 204	Watercolor	. 4
HUMS 211	History of Art I	
HUMS 212	History of Art II	4
LIMITED CH	OICE REQUIREMENTS	TOTAL: 27-30 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas

(See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	a.,	
	Communication Core Area (See Note 2) Global Perspectives and Diversity Core Area (See Note 2)	0 2) 0
	Mathematics Core Area	3-4
*	Science Core Area	4-5
	Writing Core Area	. 3-4
CHOICE 2:	Art 17	Credits
ARTS 110	Special Topics in Fine Arts	1
ARTS 114	Oriental Watercolor	. 2
ARTS 132	Figure Drawing (See Note 1)	. 3
ARTS 137	Perspective Drawing	2
ARTS 141	Printmaking II	• 4
ARTS 146	Screen Printing II	4
ARTS 151	Computer Graphics/Illustration	3
ARTS 171	Computer Graphics/Digital Imag	. 3
ARTS 195	Employ/Busn Issues for Artists	1
ARTS 201	Painting II	4
ARTS 203	Figure Painting	4
ARTS 205	Watercolor II	4
ARTS 206	Advanced Watercolor	- 4
ARTS 221	Airbrush Techniques I	4
ARTS 267	Advanced Drawing	з
4	MINIMUM TOTAL	71

NOTES:

1. ARTS 132 must be taken once toward the requirements for this degree and may also be taken one more time toward Choice 2 requirements for a total of 6 credits.

2. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

	H.	H	IV .	
ARTS 102	ARTS 103	ARTS 136	ARTS 190	;
ARTS 131	ARTS 132	ARTS 204	Lim.Ch.1	
ARTS 140	ARTS 133	HUMS 212	Lim:Ch.2	
ARTS 145	ARTS 200	Lim.Ch.1	Lim.Ch.2	
Lim.Ch.1		Lim.Ch.2		
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Lim.Ch.2		1. A. 1. A.		

Lim.Ch.2 Lim.Ch.2 Lim.Ch.2

FIGURE STUDIES CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0850 (Effective Fail 2003 - Summer 2008)

This certificate of achievement is designed for artists who want to concentrate on the human figure as a subject matter in their artwork. Certificate holders may improve their opportunities for advancement in this or a related area. Additional education enhances an individual's employment opportunities.

REQUIREMENTS			TOTAL: 34	CREDITS
CODE	TITLE		- CRE	OIT HOURS
ARTS 102	Design & Communication		· · · · · ·	3
ARTS 131	Drawing I			3
ARTS 132	Figure Drawing (See Note 1)	•		. 3
ARTS 133	Surface Anatomy for Artists			. 3
ARTS 136	Figure Sculpture			4
ARTS 203	Figure Painting (See Note 2)			4
ARTS 276	Art Independent Study			3
HUMS 211	History of Art I		1.1	4
HUMS 212	History of Art II		e y l'en en	.4

LIMITED CHOICE REQUIREMENTS

Complete the indicated number of credits from each CHOICE listed below.

TOTAL: 6-8 CREDITS

CHOICE 1:	Ari	1		6-8 Credits
ARTS 110	Special Topics in Fine Arts			1
ARTS 140	Printmaking I	·		4
ARTS 141	Printmaking II			4
ARTS 145	Screen Printing I			4
ARTS 146	Screen Printing II			4
ARTS 151	Computer Graphics/Illustration			3
ARTS 203	Figure Painting			. 4
ARTS 204	Watercolor I			-4
ARTS 205	Watercolor II		. '	4
ARTS 206	Advanced Watercolor		1.1	4
ARTS 216	Humorous Illustration I			3
ARTS 267	Advanced Drawing		· · ·	3
	MINIMUM TOTAL			40

NOTES

- 1. ARTS 132 must be taken twice for a total of 6 credits.
- 2. ARTS 203 must be taken once toward the requirements for this certificate, and may also be taken up to two additional times toward Choice 1 requirements for a total of 12 credits.

SUGGESTED COURSE SEQUENCE

I	₿	ні —
ARTS 102	ARTS 132	ARTS 136
ARTS 131	ARTS 132	ARTS 203
HUMS 211	ARTS 133	ARTS 276
Lim.Ch.	HUMS 212	Lim.Ch.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE. PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE "REGISTRAR'S OFFICE THAT IS INITIATED WHEN

GRAPHIC DESIGN ASSOCIATE IN APPLIED ARTS

Curriculum Code: 0219 (Effective Fall 2003 - Summer 2008)

A graphic designer is an artist who creatively and effectively designs informational or promotional materials for publication and/or use in a variety of mass media situations. Artistic skills related to producing effective visual information are essential for a graphic designer. An understanding of the principles of typography, color theory, computer graphic applications, and pre-press techniques is necessary. Graphic designers are employed by design studios, advertising agencies, printing companies, publishers, newspapers, sign companies, and businesses that geneate their own publications. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Art, Design and Multimedia Program, Academic and Office Facility, Room 314, telephone number (517) 483-1476.

REQUIREMEN	ITS		TOT	TAL: 6	1 CR	EDI	rs
CODE	TITLE.			(REDIT	HOU	RS
ARTS 102	Design & Communication		•				3.
ARTS 131	Drawing I						3
ARTS 132	Figure Drawing						3
ARTS 162	Typography						3
ARTS 171	Computer Graphics/Digital Imag	÷				Ĩ	3
ARTS 173	Computer Graphics/Web Design		-			唐	3
ARTS 175 .	Electronic Design	1.1			• *		З
ARTS 195	Employ/Busn Issues for Artists						1
ARTS 228	Advanced Digital Imaging						3
ARTS 251	Graphic Design I	- 1					4
ARTS 252	Graphic Design II	1					4 ·
ARTS 253	Graphic Design III						4
ARTS 257	Computer Prepress Prod Tech	1					4
ARTS 269	The Portfolio						2
ARTS 281	Art Internship		1.1				3
ARWS 133	Intro Electronic Page Layout						1
HUMS 211	History of Art I			1.1			4
HUMS 212	History of Art II				1		4
MATH 118	The Art of Geometry (See Note 1)					÷	3
MKTG 140	Introduction to Advertising						3

LIMITED CHOICE REQUIREMENTS TOTAL: 9-12 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:General Education Core Areas7-9 Credits(See General Education Core Requirements for information on how to fulfill theserequirements. Core area proficiency exams, where appropriate, are available foreach core area.)

	Communication Core Area (See Note 2)		· U	
	Global Perspectives and Diversity Core Area (See No	ote 2)	· 01	
	Mathematics Core Area (See Note 2)		0	
	Science Core Area		4-5	
	Writing Core Area		3-4	
CHOICE 2:	Illustration	2-3 Cre	edits	
ARTS 213	Illustration Fundamentals		· 3	
ABTS 231	Comp Graphics/Advanced Illustr		З	
ARTS 260	Topics in Design & Multimedia		2	
ABTS 261	Topics in Design & Multimedia		3	

MINIMUM TOTAL

NOTES:

 MATH 118 is the minimum Math requirement to meet the General Education Core Math requirement for this curriculum. Students wishing to transfer to a four-year college should see an Art, Design & Multimedia Program advisor for appropriate Math Core selections.

 Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

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SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

	31	144	IV:	
J	1			
ARTS 102	ARTS 132	ARTS 171	ARTS 228	
ARTS 131	ARTS 175	ARTS 173	ARTS 253	۰.
ARTS 162	ARTS 251	ARTS 252	ARTS 257	
HUMS 211	HUMS 212	ARWS 133	Lim.Ch.1	
MATH 118	Lim.Ch.1	MKTG 140	te de la composición de la composición de la composición de la composición de la composición de la composición	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.1.3	
۷	· .	·	· · · · ·	
ARTS 195				
ARTS 269			· ·	

GRAPHIC DESIGN CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 1020 (Effective Fall 2003 - Summer 2008)

This certificate is designed for students who hold a post secondary degree (A.A., B.A., B.F.A., or M.F.A.) in the visual arts and wish to acquire or enhance their graphic design skills to prepare for employment.

REQUIREME	REQUIREMENTS		TOTAL: 40 CREDITS
CODE	TITLE		CREDIT HOURS
ARTS 162	Typography (See Note 1)		3
ARTS 171	CG/Digital Imaging (See Note 1)		3
ARTS 173	Computer Graphics/Web Design		3
ARTS 175	Electronic Design (See Note 1)		- 3
ARTS 195	Employ/Busn Issues for Artists		
ARTS 228	Advanced Digital Imaging		3
ARTS 251	Graphic Design 1		4
ARTS 252	Graphic Design II		. 4
ARTS 253	Graphic Design III		4
ARTS 257	Computer Prepress Prod Tech		4
ARTS 269	The Portfolio		2
ARTS 281	Art Internship	2	3
MKTG 140	Introduction to Advertising	· · ·	3
	· · · · · · · · · · · · · · · · · · ·		· · ·

MINIMUM TOTAL

NOTE:

ARTS 281

Lim.Ch.2

 Students in this curriculum may be granted approval to waive the prerequisites for this course by contacting an advisor in the Art, Design and Multimedia

40

Program.

SUGGESTED COURSE SEQUENCE

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ARTS 162	ARTS 173	ARTS 195	ARTS 253
ARTS 171	/ ARTS 175	ARTS 252	ARTS 257
	ARTS 228	MKTG 140	
1 A A	ARTS 251		

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ARTS 269 ARTS 281 College

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HUMOROUS ILLUSTRATION CERTIFICATE OF COMPLETION

Curriculum Code: 0838 (Effective Fall 2003 - Summer 2008)

This certificate of completion program consists of practical hands-on courses that provide students with the necessary technical knowledge and skills needed to create humorous illustrations, cartooning, and caricatures. Additional education enhances an individual's employment opportunities.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Art, Design and Multimedia Program, Academic and Office Facility, Room 314, telephone number (517) 483-1476.

REQUIREM	ENTS		TOTAL: 18 CREDITS	
CODE .	TIFLE		CREDIT HOURS	;
ARTS 102	Design & Communication		3	
ARTS 131	Drawing I		3	
ARTS 132	Figure Drawing	· 1	. 3	
ARTS 216	Humorous Illustration I		. 3	
ARTS 217	Humorous Illustration II		. 3	
ARTS 225	Comic Book Illustration	1 A A A A A A A A A A A A A A A A A A A	3	

SUGGESTED COURSE SEQUENCE

MINIMUM TOTAL

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	۲. الأ	UI .	IV	
ARTS 102	ARTS 132	ARTS 216	ARTS 217	
ARTS 131	•	1.1	ARTS 225	

SEQUENTIAL ART ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 1048 (Effective Fall 2003 - Summer 2008)

This degree is designed for students who wish to specialize in illustration as it applies to computer graphics, animation, and cartoon, comic book, or self-publishing. Career options for sequential artists include storyboard and/or conceptual artist for film, television, animation, gaming, and advertising; illustrator for books and other publications; inker/pencileir/colorist; comic syndication; and self-publishing. Sequential artists should expect to work as part of a development team that may include animators, film and video producers, graphic designers, or video game developers. Sequential artists also have many opportunities for freelance work. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Art, Design and Multimedia Program, Academic and Office Facility.. Room 314, telephone number (517) 483-1476.

REOUIREMENTS (See Note 1)		TOTAL: 50 CREDITS	
ODE	TITLE	CREDIT I	
RTS 102	Design & Communication		3
RTS 131	Drawing L		.3
RTS 132	Figure Drawing		3
RTS 133	Surface Anatomy for Artists		. 3
ARTS 137	Perspective Drawing	ter en en en el terreter el terreter el terreter el terreter el terreter el terreter el terreter el terreter el	2
ARTS 151	Computer Graphics/Illustration	,	Э
ARTS 153	Conceptual Illustration		3
ARTS 171	Computer Graphics/Digital Imaging		3
ARTS 195	Employ/Busn Issues for Artists		1
ARTS 216	Humorous Illustration 1	111	Э
ARTS 217	Humorous Illustration II		· 3
ARTS 225	Comic Book Illustration	•	- 3
ARTS 226	Storyboards	· ·	Э
ARTS 228	Advanced Digital Imaging	•	Э
ARTS 238	Comps and Animatics		, з
ARTS 267	Advanced Drawing		1 3
ARTS 269	The Portfolio (See Note 2)		. i 2
ARTS 281	Art Internship		Э

LIMITED CHOICE REQUIREMENTS TOTAL: 21-25 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 13-17 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area (See Note 3)	0
	Global Perspectives and Diversity Core Area	3-4
1	Mathematics Core Area	3-4
	Science Core Area	4-5
	Writing Core Area	3-4
CHOICE 2:	Animation	8 Credits
ARTS 232	Comp Graphics 2-D Animation	4
ARTS 234	Comp Graphics 3-D Animation 1	4
ARTS 235	Comp Graphics/3-D Animation 1	4

NOTES:

- It is recommended that all students entering this curriculum have computer experience in both Windows NT and Macintosh Operating Systems. This experience may come from life or work experience, or other studies, as well as CABS 100 Seminars - Introduction to Windows NT and Introduction to the Macintosh. Students should consult with an advisor in the Art, Design and
- Multimedia Program if they are not sure about their computer skill level. 2. The Portfolio is considered to be the final course in this curriculum. All other
- courses must already be completed or taken concurrently with ARTS 269. 3. Students completing *REQUIREMENTS* have fulfilled the requirements for this
- Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	1	16	IV
ARTS 102 ARTS 131 ARTS 195 Lim.Ch. Lim.Ch.	ARTS 132 ARTS 151 ARTS 153 ARTS 171 Lim.Ch.	ARTS 137 ARTS 216 ARTS 228 Lim.Ch.	ARTS 133 ARTS 217 ARTS 225 ARTS 267 Lim.Ch.

ARTS 226 ARTS 238 ARTS 269 ARTS 281 Lim.Ch.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE. 50 BLANSING COMMUNITY COLLEGE CATALOG 2003-2005 College

SEQUENTIAL ART CERTIFICATE OF ACHIEVEMEN

Curriculum Code: 1043 (Effective Fall 2003 - Summer 2008)

This certificate is designed to enhance the illustration skills of Computer Graphics and Graphic Design majors and will also appeal to students who wish to build illustration skills for entry-level positions in sequential art. Sequential artists should expect to work as part of a development team that may include animators, film and video producers, graphic designers, or video game developers. Sequential artists also have many opportunities for freelance work.

PREREQUISITES

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Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Art, Design and Multimedia Program, Academic and Office Facility, Room 314, telephone number (517) 483-1476.

REQUIREMENTS (See Note 1)		TOTAL: 39 CREDITS		
CODE	TITLE		CREDIT	HOURS
ARTS 102	Design & Communication			3
ARTS 131	Drawing I			3
ARTS 132	Figure Drawing			3
ARTS 133	Surface Anatomy for Artists	1		3
ARTS 137	Perspective Drawing		· · ·	2
ARTS 151	Computer Graphics/Illustration	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	· .	3
ARTS 153	Conceptual Illustration			3
ARTS 171	Computer Graphics/Digital Imaging			3
ARTS 195	Employ/Busn Issues for Artists			.1
ARTS 216	Humorous Illustration I		1.1	3
ARTS 217	Humorous Illustration II			3
ARTS 225	Comic Book Illustration			3
ARTS 226	Storyboarding			3
ARTS 267	Advanced Drawing		E.	3
	MINIMUM TOTAL			39

NOTE:

1. It is recommended that all students entering this curriculum have computer experience in both Windows NT and Macintosh Operating Systems. This experience may come from life or work experience, or other studies, as well as CABS 100 Seminars - Introduction to Windows NT and Introduction to the Macintosh. Students should consult with an advisor in the Art, Design and Multimedia Program if they are not sure about their computer skill level.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	11	PER	IV .	
ARTS 102	ARTS 132	ARTS 137	ARTS 133	
ARTS 131	ARTS 151	ARTS 171	ARTS 217	
ARTS 195	ARTS 153	ARTS 216	ARTS 225	

ARTS 226

ARTS 267

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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College

ALTERNATE FUELS CERTIFICATE OF COMPLETION

Curriculum Code: 0855 (Effective Fall 2003 - Summer 2008)

This certificate program is intended for individuals who are currently employed in the automotive repair industry. Students are trained specifically in the area of alternative fuels and are prepared to take the State of Michigan Mechanics Certification Tests to become automotive technicians through the Secretary of State. State certification tests are available at the end of fall and spring semester in the LCC Automotive Program Office. The Automotive Technology Program is a National Automotive Technology Arogram Institute for Automotive Service Excellence (ASE). The Automotive Technology Program is also a member of the National Alternative Fuels Training (NAFTC).

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Transportation Technologies Department located at the LCC Aviation Center, 3428 W. Hangar Drive, Lansing, MI 48906, telephone number (517) 267-5880.

REQUIREME	ENTS		TOTAL; 21 CRE	DITS
CODE	TITLE		CREDIT	HOURS
AUTÓ 100	Auto Service I			3
AUTO 215	Engine Performance/Tune-Up		1 A. 1.	5
AUTO 225	Automotive Computers	· ·	· ·	5
AUTO 260	Intro to Alternative Fuels		· · · ·	. 2
AUTO 261	Alternative Fuels - CNG			3
AUTO 262	Alternative Fuels - LPG			3
	A State of the second second second second second second second second second second second second second second		1. S.	
	MINIMUM TOTAL		· ·	21

NOTE:

 Prerequisites to courses may be waived based on experience. See a program advisor prior to registration for more information.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	1 ·	\$1	-	
AUTO 100	AUTO 225	AUTO 2	261	÷.,.,
AUTO 215	AUTO 260	AUTO 2	262	÷.

AUTO AC/ELECTRICAL ACCESSORIES CERTIFICATE OF COMPLETION

Curriculum Code: 0846 (Effective Fall 2003 - Summer 2008)

This certificate program is intended for individuals who are currently employed in the automotive repair industry. Students are prepared to take the State of Michigan Mechanics Certification Tests to become licensed automotive technicians through the Secretary of State. State certification tests are available at the end of fall and spring semester in the LCC Automotive Program Office. The Automotive Technology Program is a National Automotive Technicians Education Foundation (NATEF) Certified Training Program, evaluated by the National Institute for Automotive Service Excellence (ASE).

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Transportation Technologies Department located at the LCC Aviation Center, 3428 W. Hangar Drive, Lansing, MI 48906, telephone number (517) 267-5880.

REQUIREME	NTS		TOTAL	: 11 CREDITS
CODE	TITLE	· .	1	CREDIT HOURS
AUTO 100	Auto Service I			3
AUTO 110	Auto Electrical Theory			5
AUTO 160	Auto Heat & Air Condit	ioning		3

MINIMUM TOTAL

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

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STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL RECORDEMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INSTATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

AUTO COLLISION REPAIR ASSOCIATE IN APPLIED SCIENCE D

Curriculum Code: 0188 (Effective Fail 2003 - Summer 2008)

Auto collision repair technicians possess the necessary skills to perform collision repair and refinishing according to the "manufacturer's specifications." Using hand and power tools, they straighten bent frames and body sections, replace badly damaged parts. smooth out minor dents and creases, remove rust, fill small holes and renew painted surfaces. Auto collision repair technicians are employed by collision repair shops, new car dealerships, refinishing businesses and auto restoration shops. Formal training is highly desirable, because advances in technology in recent years have greatly changed the structure, the components and even the materials used in automobiles. The Auto Collision Foundation (NATEF). Although this curriculum does not provide state certification, state certification tests are available and miching an Secretary of State Office.

PREREQUISITES

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rse nsonStudents should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Transportation Technologies Department located at the LCC Aviation Center, 3428 W. Hangar Drive, Lansing, MI 48906, telephone number (517) 267-5880.

REQUIREME	NTS	TOTAL: 51 CREDITS	
CODE	TITLE	CREDIT HOURS	
AUTS 110	Non-Structural Repair (See Note 1)	. 3	
AUTB 112	Advanced Non-Structural Repair	5	
AUTB 114	Auto Body Welding and Cutting (See Note	1). 5	
AUTB 116	Auto Body Structural Repair	5	
AUTB 118	Introduction to Refinishing (See Note 1)	5	
AUT6 120	Advanced Refinishing	5	
AUTB 122	Collision Repair Estimating	. 3	
AUTB 124	Automotive Plastic Repair	. 3	
AUTE 162	Collision Repair Internship (See Notes 1 &	2) 3	
AUTO 100	Auto Service	3	
AUTO 110	Auto Electrical Theory	5	
AUTO 150	Auto Steering & Suspension	3	
AUTO 160 .	Auto Heat & Air Conditioning	3	

LIMITED CHOICE REQUIREMENTS TOTAL: 20-25 CREDITS

Complete the indicated number of credits from each CHOICE listed below:

CHOICE 1:/ General Education Core Areas 16-20 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area	3
	Global Perspectives and Diversity Core Area	3-4
	Mathematics Core Area	3-4
· .	Science Core Area	4-5
100 A.M. A.	Writing Core Area	3-4
CHOICE 2:	Automotive Related	4-5 Credits
AUTB 160	Auto Body Repair and Painting	4
AUTO 215	Engine Performance/Tune-Up	- 5
AUTO 225	Automotive Computers	5
	MINIMUM TOTAL	71

NOTES:

Students must obtain department approval from the Transportation Department prior to registering for these courses.

2 AUTB 162 may be repeated one time for additional internship experience.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1. State 1.	(1) (1) (2)			
1	u ,	(k	IV ,	
AUTB 110	AUTB 112	AUTB 116	AUTB 122	·
AUTB 114	AUTO 110	AUTB. 120	AUTB 124	$\gamma_{\rm e}$
AUTB 118	Lim.Ch.	AUTO 160	AUTB 162	
AUTO 100	Lim.Ch. 😳 👘	Lim.Ch.	AUTO 150	÷
Lim.Ch.	Lim.Ch.	Lim.Ch.	1. A. A.	÷.,

AUTO COLLISION REPAIR CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0166 (Effective Fall 2003 - Summer 2008)

This program provides the technical knowledge and skills needed to perform collision repair and refinishing. Students will be prepared for an entry level position. This program does not provide state certification. State certification tests are available at any Michigan Secretary of State Office. The Auto Collision Repair Program is certified by the National Automotive Technicians Education Foundation (NATEF).

REQUIREMENTS		TOTAL: 35 CRED		
CODE	TITLE		CREDIT H	JOURS
AUTB-110	Non-Structural Repair (See Note 1)			3
AUTB 112	Advanced Non-Structural Repair		1.1	5
AUTB 114	Auto Body Welding and Cutting (See Note	1)		5
AUT8 116	Auto Body Structural Repair	· ·	1.1	5
AUTB 118	Introduction to Refinishing (See Note 1)	÷.,		5
AUTB 120	Advanced Refinishing			5
AUTO 100	Auto Service I		1.1	ã
MATH 050	Math-Principles and Practices			4
	MINIMUM TOTAL		· · · ·	35

NOTES:

 Students must obtain department approval from the Transportation Department prior to registering for these courses.

SUGGESTED COURSE SEQUENCE

· ·	-14	
AUTB_110	AUTB 112	•
AUTB 114	AUTB 116	
AUTB 118	AUTB_120	1.11
AUTO 100 .	MATH 050	1.1.1
		N

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT DONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

AUTO STEER/SUSPENSION/BRAKES CERTIFICATE OF COMPLETION

Curriculum Code: 0851 (Effective Fall 2003 - Summer 2008)

This certificate program is intended for individuals who are currently employed in the automotive repair industry. Students are prepared to take the State of Michigan Mechanics Certification Tests and become licensed automotive technicians through the Secretary of State. State certification tests are available at the end of fall and spring semester in the LCC Automotive Program Office. The Automotive Technology Program is a National Automotive Technicians Education Foundation (NATEF) Certified Training Program, evaluated by the National Institute for Automotive Service Excellence (ASE).

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Transportation Technologies Department located at the LCC Aviation Center, 3428 W. Hangar Drive, Lansing MI 48906, telephone number (517) 267-5880.

REQUIREME	NTS		TOTA	L: 12 CR	EDITS
CODE	TITLE			CREDIT	HOURS
AUTO 100	Auto Service I		1 - C		3
AUTO 140	Automotive Brakes		1 - C		3
AUTO 150	Auto Steering & Suspension				3
AUTO 235	Adv Computer/ABS Brake System				3
		`			í.
	MINIMUM TOTAL	÷		· .	12

NOTE

 Prerequisites to courses may be waived based on experience. See a program advisor prior to registration for more information.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time; have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

3	ŧ		••	
AUTO 100	AUTO 235		- 1	1. A. 1.
AUTO 140		•		
AUTO 150			-	

AUTOMOTIVE DRIVE LINES CERTIFICATE OF COMPLETION

Curriculum Code: 0856 (Effective Fall 2003 - Summer 2008)

This certificate program is intended for individuals who are currently employed in the automotive repair industry. Students are prepared to take the State of Michigan Mechanics Certification Tests to become licensed automotive technicians through the Secretary of State. State certification tests are available at the end of fall and spring semester in the LCC Automotive Program Office. The Automotive Technology Program is a National Automotive Technicians Education Foundation (NATEF) Certified Training Program, evaluated by the National Institute for Automotive Service Excellence (ASE).

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Transportation Technologies Department located at the LCC Aviation Center, 3428 W. Hangar Drive, Lansing, MI 48906, telephone number (517) 267-5880.

REQUIREME	NTS	TOTAL: 17 CR	edits
CODE	TITLE	CREDIT	HOURS
AUTO 100	Auto Service I		3
AUTO 120	Auto Drive Train	· · ·	3
AUTO 121	Automatic Transmissions I	1	5
AUTO 122	Automatic Transmissions II		3
AUTO 130	Automotive Engines		3
	MINIMUM TOTAL		17

NOTE

 Prerequisites to courses may be waived based on experience. See a program advisor prior to registration for more information.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

ŧ .			
AUTO 100	•		
AUTO 120			
AUTO 21			• •
AUTO 122	· .		
AUTO 130			

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER THRUE TO THE SEMESTER THEY INTEND TO GRADUATE.

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AUTOMOTIVE TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0238 (Effective Fall 2003 - Summer 2008)

This program prepares individuals to work in the automotive field as a technician. Students learn all aspects of automobile repair, diagnosis and maintenance. This program prepares the individual to take the State of Michigan Mechanics Certification Tests and become a licensed automotive technician through the Secretary of State. State certification tests are available at the end of fall and spring semester in the LCC Automotive Program Office. The Automotive Technology Program is a National Automotive Technicians Education Foundation (NATEF) Certified Training Program, evaluated by the National Institute for Automotive Service Excellence (ASE).

PREREQUISITES

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Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Transportation Technologies Department located at the LCC Aviation Center; 3428 W. Hangar Drive, Lansing, MI 48906, telephone number (517) 267-5880

REQUIREMENTS		TOTAL: 47 CREDITS
CODE	TITLE	CREDIT HOURS
AUTO 100	Auto Service I	- 3
AUTO 110	Auto Electrical Theory	· 5
AUTO 120	Auto Drive Train	. 3
AUTO 121	Automatic Transmissions I	5
AUTO 122	Automatic Transmissions II	
AUTO 130	Automotive Engines	3 -
AUTO 140	Automotive Brakes	. 3
AUTO 150.	Auto Steering & Suspension	3
AUTO 160	Auto Heat & Air Conditioning	3
AUTO 215	Engine Performance/Tune-Up	5
AUTO 225	Automotive Computers	5
AUTO 235	Adv Computer/ABS Brake System	. 3
WRIT 124	Technical Writing	. 3
LIMITED CH	OICE REQUIREMENTS	TOTAL: 22-25 CREDITS

Complete the indicated number of credits from each CHOICE listed below:

CHOICE 1:	General	Education	Core Are	as		1:	3-16 Crec	lits
(See General	Education	Core Requi	rements fo	or info	rmation on h	low t	o fulfill the	ese
requirements.	Core area	a proficiency	exams, v	where	appropriate,	are	available	for
each core are	a) 🦯		ъś.					

	Communication Court Auto		
	Communication Core Area		3
	Global Perspectives and Diversity Core Area		3-4
	Mathematics Core Area	•	3-4
	Science Core Area		4-5
	Writing Core Area (See Note 1)		0
CHOICE 2:	Automotive Related (See Note 2)		9 Credits
AUTO 133	Small Engine Repair		
			. 3
AUTO 134	Light Duty Diesel Engines		3
AUTO 141 .	Non-Structural Repair		3
AUTO 145	Introduction to Refinishing		5
AUTO 260	Intro to Alternative Fuels		2
AUTO 261	Alternative Fuels-CNG		Э
AUTO 262	Alternative Fuels-LPG		3
AUTO 280	Automotive Service Laboratory		6
AUTO 285	Automotive Internship (See Note 3)	ан 1911 - А	3
MACH 105	Machine Tool Survey		3
MACH 135	Metallurgy and Heat Treat		4

MINIMUM TOTAL

NOTES

- 1 Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Contact the Automotive Technology Program Coordinator for additional automotive related classes that will satisfy this area at (517) 483-1375.
- 3. AUTO 285 may be repeated one time for a total of 6 credits toward this degree.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time have transferred in courses from another school, or have prerequisites to fulfill, should contact an academic advisor or counselor for help with adjustments.

1	· · · ·	Ш.	-IV
AUTO 100	AUTO 121	AÚTO 120	AUTO 235
AUTO 110	AUTO 160	AUTO 122	Lim.Ch.
AUTO 130	AUTO 215	AUTO 150	Lim.Ch.
AUTO 140	Lim.Ch.	AUTO 225	Lim.Ch.
WRIT 124	Lim.Ch.	Lim.Ch.	Lim.Ch.
1			

AUTOMOTIVE TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0140 (Effective Fall 2003 - Summer 2008)

This certificate program prepares individuals to take the State of Michigan Mechanics Certification Tests to become licensed automotive technicians through the Secretary of State. State certification tests are available at the end of fall and spring semester in the LCC Automotive Program Office. The Automotive Technology Program is a National Automotive Technicians Education Foundation (NATEF) Certified Training Program, evaluated by the National Institute for Automotive Service Excellence (ASE),

REQUIREME	NTS (See Note 1)	TOTAL: 39 CREDITS
CODE	TITLE	09809 40068
AUTO 100	Auto Service I	3
AUTO 110	Auto Electrical Theory	. 5
AUTO 120	Auto Drivetrain	. 3
AUTO 130	Automotive Engines	3
AUTO 140	Automotive Brakes	3
AUTO 150	Auto Steering & Suspension	. 3
AUTO 160	Auto Heat & Air Conditioning	- 3
AUTO 215	Engine Performance/Tune-Up	
AUTO 225	Automotive Computers	5
AUTO 280	Automotive Service Laboratory	6
	MINIMUM TOTAL	36

MINIMUM TOTAL

NOTE:

1. It is recommended that students have the equivalent of a Math Level 4 to be successful in this curriculum. Math placement testing is available in the Assessment Center, Gannon Vocational-Technical Center, Suite 2100. telephone_number (517) 267~5500.

SUGGESTED COURSE SEQUENCE

I	li I		
AUTO 100	AUTO 120	AUTO 150	
AUTO 110	AUTO 140	AUTO 225	
AUTO 130	AUTO 160	AUTO 260	
	AUTO 215		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAN'S OFFICE THAT IS INTERED. WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

Curriculum Code: 0848 (Effective Fall 2003 - Summer 2008)

This certificate program is intended for individuals who are currently employed in the automotive repair industry. Students are prepared to take the State of Michigan Mechanics Certification Tests to become licensed automotive technicians through the Secretary of State. State certification tests are available at the end of fall and spring semester in the LCC Automotive Program Office. The Automotive Technology Program is a National Automotive Technicians Education-Foundation (NATEF) Certified Training Program, evaluated by the National Institute for Automotive Service Excellence (ASE).

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Transportation Technologies Department located at the LCC Aviation Center, 3428 W. Hangar Drive, Lansing, MI 48906, telephone number (517) 267-5880.

REQUIREMENTS			TOTAL: 21 CREDITS			
CODE	TITLE.			CREDIT HOURS		
AUTO 100	Auto Service I			3		
AUTO 110	Auto Electrical Theory	•		5		
AUTO 215	Engine Performance/Tune-Up			5		
AUTO 225	Automotive Computers	11 July 1		5		
AUTO 235	Adv Computer/ABS Brake System			. 3		
				v d		

MINIMUM TOTAL

NOTE:

 Prerequisites to courses may be waived based on experience. See a program advisor prior to registration for more information.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

. 1	H .	TH ST		
AUTO 100	AUTO 225	AUTO 235		
AUTO 110		·	· · · · ·	
AUTO 215		· · · ·		

AIRFRAME MAINTENANCE TECH ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0757 (Effective Fall 2003 - Summer 2008)

Airframe maintenance technicians maintain aircraft in accordance with Federal Aviation. Regulations. Airframe technicians perform a wide variety of repairs and alterations to sheet metal and composite aircraft structures. In addition, they inspect and repair or replace complex aircraft components associated with hydraulic/pneumatic, communication/navigation, fuel and flight control systems. Aviation maintenance technicians are employed throughout the world maintaining aircraft for major air carriers, commuter airlines, air freight operators, corporate flight departments, fixed base operators and a variety of other specialized aviation businesses. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Aviation Program at the LCC Aviation Center, telephone number (517) 483-1406.

REOUREN	MENTS	TOTAL: 57 CREDITS
CODE	TITLE	CREDIT HOURS
AVAF 125	Aircraft Systems I	. 2
AVAF 126	Aircraft Systems II	. 6
AVAF 127	Aircraft Systems III	. 3
AVAF 134	Aircraft Instruments	2
AVAF 208	Aircraft Structures I	
AVAE 209	Aircraft Structures If	
AVAF 210	Aircraft Structures III	4
AVAF 211	Aircraft Electrical I	4
AVAF 212	Aircraft Electrical II	4
AVAF 246	National Airframe Cert Proced	
AVEL 200	Avionics Systems I	2
AVGM 111	Aviation General I	4
AVGM 112	Aviation General II	6
AVGM 113	Aviation General III	
AVGM 114	Material and Processes	5
WELD 210	Aircraft Welding	2

LIMITED CHOICE REQUIREMENTS TOTAL: 16-20 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

 CHOICE 1:
 General Education Core Areas
 16-20 Credits

 (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area	. 3.
Global Perspectives and Diversity Core Area	. 3-4
Mathematics Core Area	3-4
Science Core Area	4-5
Writing Core Area	3-4
· · · · · · · · · · · · · · · · · · ·	•
MINIMUM TOTAL	73

NOTES:

- 1. In accordance with Federal Aviation Regulation Part 147, completing the aforementioned curriculum does not constitute approval to take the Federal Aviation Administration Airframe or Powerplant Mechanic written, oral, and practical license exams. The FAA approved training director must review individual student enrollment, course records, and certification course testing results before considering each student for certification approval. Students are required to meet Federal Aviation Regulations Part 147 training requirements to be eligible for certification. Students will be required to complete each certification course with a minimum grade of 71 percent and pass pre-tests for General and Airframe with a minimum grade of 80 percent to be considered for the Federal Aviation Administration, written tests. To obtain FAA certification approval, student will be required to complete additional coursework.
- Students must complete each course with a minimum grade of 71 percent to receive the Lansing Community College certificate of achievement.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or courselor for help with adjustments.

4	R ·	Ш	IV Z ^{anda} ri	
AVEL 200	AVAF 125	AVAF 127	Lim.Ch.	,
AVGM 111	AVAF 126	AVAF 134	Lim.Ch.	
AVGM 112	AVAF 208	AVAF 209	Lim.Ch.	
AVGM 113	AVAF 211	AVAF 210	Lim.Ch.	
AVGM 214	WELD 210	AVAF 212	Lim.Ch.	
		AVAF 246		
			· · · · ·	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAN'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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AIRFRAME MAINTENANCE TECH CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 1036 (Effective Fall 2003 - Summer 2008)

This certificate of achievement enables a non-licensed individual to expand their knowledge of airframe maintenance practices used to maintain aircraft in accordance with the Title 14 Code of Federal Aviation Regulations. While enrolled in this program, students will learn the basic science and technical knowledge necessary to repair and maintain modern aerospace vehicle airframes. Graduates will have demonstrated technical abilities in flight control rigging and adjustment, airframe structural repair, hydraulic and pneumatic systems inspection and repair, flight control operation, fuel system maintenance and repair, airframe electrical system diagnosis and repair, airframe inspections. Completion of this certificate may be applied to the Airframe and Powerplant License provided the student meets the requirements of the Federal Aviation Regulation Part 147.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Aviation Technology Program at the LCC Aviation Center, Room 109, telephone number (517) 483-1406.

REQUIREME	NTS	TOTAL: 38 CREDITS
CODE .	TITLE	CREDIT HOURS
AVAF 125	Aircraft Systems I	2
AVAF 126	Aircraft Systems II	6
AVAF 127	Aircraft Systems III	3
AVAE 134	Aircraft Instruments	2
AVAF 208	Aircraft Structures I	. 4
AVAF 209	Aircraft Structures II	
AVAF 210	Aircraft Structures III	4
AVAF 211	Aircraft Electrical I	4
AVAF 212	Aircraft Electrical II	4
AVAE 246	National Airframe Cert Proced	1. A. 1.
AVEL 200	Flight Line Testing	2
WELD 210	Aircraft Welding	2
	·	
·	MINIMUM TOTAL	38

NOTES:

In accordance with Federal Aviation Regulation Part 147, completing the aforementioned curriculum does not constitute approval to take the Federal Aviation Administration Airframe or Powerplant Mechanic written, oral, and practical license exams. The FAA approved training director must review individual, student enrollment, course records, and certification course testing results before considering each student for certification approval. Students are required to meet Federal Aviation Regulations Part 147 training requirements to be eligible for certification. Students will be required to complete each certification course with a minimum grade of 71 percent and pass pre-tests for General and Airframe with a minimum grade of 80 percent to be considered for the Federal Aviation Administration written tests. To obtain FAA certification approval, students will be required to complete additional coursework.

 Students must complete each course with a minimum grade of 71 percent to receive the Lansing Community College certificate of achievement.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transterred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	H .	#1	
AVAF 125	AVAE 127	AVAF 210	
AVAE 125	AVAF 134	AVAF 212	
AVAF 208	AVAF-209	AVAF 246	
AVAF 211	WELD 210	AVEL 200	· · · ·

BASIC AVIATION TECHNOLOGY CERTIFICATE OF COMPLETION

Curriculum Code: 1037 (Effective Fall 2003 - Summer 2008)

This certificate of completion enables a non-licensed individual to develop the knowledge and understanding of basic aviation maintenance practices used to maintain aircraft in 'accordance with the Title 14 Code of Federal Aviation Regulations. While enrolled in this program, students will learn the basic science and technical knowledge necessary to repair and maintain modern aerospace vehicles. Graduates will have demonstrated technical abilities in aircraft ground handling and servicing, aircraft fueling procedures, parking and mooring, equipment nomenclature and identification, unapproved parts identification, and airport operations: Completion of this certificate may be applied to the Airframe and Powerplant License provided the student meets the requirements of the Federal Aviation Regulation Part 147.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Aviation Technology Training Program at the LCC Aviation Center, Room 109, telephone number (517) 483-1406:

REQUIREM	INTS	тоти	L: 19 CRE	DITS
CODE	TITLE		CREDIT H	iodas
AVGM 111	Aviation General I			4
AVGM 112	Aviation General II			6
AVGM 113	Aviation General III		· · · · · · · · · · · · · · · · · · ·	4
AVGM 114	Material and Processes			5
	MINIMUM TOTAL	· · · · · · · · · · · · · · · · · · ·		19

NOTES:

- 1. In accordance with Federal Aviation Regulation Part 147, completing the aforementioned curriculum does not constitute approval to take the Federal Aviation Administration Airframe or Powerplant Mechanic written, oral, and practical license exams. The FAA approved training director must review individual student enrollment, course records, and certification course testing results before considering each student for certification approval. Students are
- required to meet Federal Aviation Regulations Part 147 training requirements to be eligible for certification. Students will be required to complete each certification course with a minimum grade of 71 percent and pass pre-tests for
- General and Airframe with a minimum grade of 80 percent to be considered for the Federal Aviation Administration written tests. To obtain FAA certification approval, students will be required to complete additional coursework.
- Students must complete each course with a minimum grade of 71 percent to receive the Lansing Community College certificate of achievement.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

AVGM 111 AVGM 112 AVGM 113 AVGM 113 AVGM 114

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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AVIATION FLIGHT TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0259 (Effective Fall 2003 - Summer 2008)

The commercial flight training program provides all required ground, simulator, and in-flight technical training to meet Federal Aviation Administration requirements for Commercial Pilot Certification. This program will conduct ab-initio training (no previous experience) or build on previous experience of the student. Students entering this program are required to accomplish an F.A.A. Class II medical exam prior to entering training. Normal motor skills and academic ability will provide functional competency to support certification. Graduates are initially employed as instructor pilots by flight training schools. As the graduates achieve 1200 to 1500 flight hours, they are competitive for hiring by regional or commuter airlines as First Officers.

PREREQUISITES

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Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Aviation Program at the LCC Aviation Center, telephone number (517) 483-1406.

REQUIREM	TITLE		TOTAL:		
CODE .				CREDIT	HOURS
AVFT 201	Flight Training I, (See Note 1)				7.5
AVFT 202 👘	Flight Training II (See Note 2)		1		5
AVFT 203	Flight Training III (See Note 3)	,			5.5
AVET 204	Flight Training IV (See Note 4)				5
AVGS 101	Private Pilot Ground School				4
WGS 121	Aviation Meteorology				4
WGS 211	Instrument Pilot Ground School				. 4
WGS 221	Commercial Pilot Ground School				4
WST 211	Flight Simulator I	- A			1
VST 212	Flight Simulator II				. 1
WST 213	Flight Simulator III	1.1			1
WST 214	Flight Simulator IV		1.0.1		1

LIMITED CHOICE REQUIREMENTS TOTAL: 26-30 CREDITS Complete the indicated number of credits from each CHOICE listed below:

CHOICE 1: General Education Core Areas 16-20 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area)

Gach core an	7d.)	
	Communication Core Area	3
	Global Perspectives and Diversity Core Area	3-4
	Mathematics Core Area	3-4
	Science Core Area	4-5
	Writing Core Area	3-4
CHOICE 2:	Advanced Flight Training	10 Credits
AVFT 205	CFI Flight Training	3.5
AVFT 206	Instrument Instructor Flight	2.5
AVFT 207	Multi-Engine Flight Training	1.5
AVFT 208	Multi-Engine Instructor Flight	.75
AVFT 224	Tail Wheel Transition	. 1
AVGS 222	Flight Instruct Ground School	4
AVST 215	Multi-Engine Flight Simulator	. 1
· .	MINIMUM TOTAL	69
		-

NOTES:

This course is offered in modules: AVFT 201A, AVFT 201B, and AVFT 201C.

2 This course is offered in modules: AVFT 202A and AVFT 202B.

3. This course is offered in modules: AVFT 203A and AVFT 203B. 4

This course is offered in modules: AVFT 204A and AVFT 204B,

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	. · ·	IB .	tv .	;
AVFT 201	AVFT 202	AVFT 203	AVFT 204	·.
AVGS 101	AVGS 121	AVGS 221	AVST 214	S
AVST 211	AVGS 211	AVST 213	Lim.Ch.	
	AVST 212	Lim.Ch.	and the second second	· · · ·
V	VI	· · ·		• .
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Lim.Ch.	Lim.Ch.			· .

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFRICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAP'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

2003-2005 Catalog Lansing Community

AVIONICS FLIGHTLINE MAINT ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 1046 (Effective Fall 2003 - Summer 2008)

Aviation electronics (avionics) is the application of electronics to aviation. Avionics technicians install, troubleshoot, and service complex communication, navigation, radar, autopilot, and related electronic systems. The avionics flightline work environment is fast paced, well organized, and dictated by the airline flight schedule. Students will find employment opportunities in airlines, alrorts, aircraft manufacturers, and government agencies. In addition, LCC offers on-site testing for the FCC General Radiotelephone Operator License. New students do not need any special skills to begin the Avionics Flightline Maintenance Program. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Aviation Technology Training Program at the LCC Aviation Center, Room 109, telephone number (517) 483-1406.

2 C	· · · · · · · · · · · · · · · · · · ·				
REQUIREME	NTS		TOTAL	: 65 CRE0	DITS
CODE	TITLE .			CREDIT H	JURS
AVAF 134	Aircraft Instruments				2
AVAF 208	Aircraft Structures I				4
AVAF 209	Aircraft Structures II				4
ÁVAF 211	Aircraft Electrical 1			1.1	4
AVGM 111	Aviation General I			:	4
AVGM 112	Aviation General II				6
· AVGM 113	Aviation General III		· · ·		4
AVEL 150	Avianics Test Equipment			8	2
AVEL 151	Avionics Test Equipment Lab				¨ 1
AVEL 190	Receiver Troubleshooting				2
AVEL 191	Receiver Troubleshooting Lab		1		.1
AVEL 200	Flight Line Testing				2
AVEL 201	Avionics Flightline Testing Lab				1
AVEL 220	Avionics Systems I			-	З
AVEL 221	Avjonics Systems I Lab				2
AVEL 225	FCC License Preparation				1
AVEL 230	Avionics Systems II				3
AVEL 231	Avionics Systems II Lab	·			2
ELCT 131	Digital Basics	•	:		3
MATH 114	Technical Math I				4
MATH 115	Technical Math II				4
SPCH 110	Oral Communic in the Workplace			1.1	3
WRIT 124	Technical Writing				· 3
	· · · · · · · · · · · · · · · · · · ·				

LIMITED CHOICE REQUIREMENTS TOTAL: 7-9 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 7-9 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	MINIMUM TOTAL	72
	····· 5	
	Writing Core Area (See Note 1)	0
	Science Core Area	4-5
	Mathematics Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area	3-4
	Communication Core Area (See Note 1)	0
active parts		

NOTES:

 Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

- Students must complete all courses with a minimum grade of 2.0 to receive the LCC Associate Degree.
 - the LCC Associate Degree.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

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AVGM 111	AVAF 208	AVAF: 134	AVEL 220	. :
AVGM 112	AVAF 211	AVEL 190	AVEL 221	
AVGM 113	AVEL 150	AVEL 191	ELCT 131	·
SPCH 110	AVEL 151	AVEL 200	MATH 115	
WRIT 124	MATH 114	AVEL 201	、 Lim.Ch.	
		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
٧	-	: .		
AVAF 209			1	

AVEL 225

AVEL 230 AVEL 231

Lim.Ch.

AVIONICS FLIGHTLINE MAINT CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 1052 (Effective Fall 2003 - Summer 2008)

This certificate of achievement enables a student to expand their knowledge of avionics related maintenance practices used to maintain aircraft in accordance with the Title 14 Code of Federal Aviation Regulations. Students enrolled in this program will learn the technical knowledge necessary to repair and maintain modern aircraft electronics systems. Courses indicated on the Certificate of Achievement may be applied to the Airframe and Powerplant License provided the student meets the requirements of the Federal Aviation Regulation Part 147.

REQUIREMENTS		TOTAL: 42 CREDITS
CODE	TITLE	CREDIT HOURS
AVAF 134	Aircraft Instruments	2
AVAF 209	Aircraft Structures II	4
AVAF 211	Aircraft Electrical I	4
AVEL 150	Avionics Test Equipment	· · · · 2
AVEL 151	Avionics Test Equipment Lab	1 1
AVEL 190	Receiver Troubleshooting	2
AVEL 191	Receiver Troubleshooting Lab	1.
AVEL 200	Flight Line Testing	2
AVEL 220	Avionics Systems 1	ан ал ан ал ан ан ан ан ан ан ан ан ан ан ан ан ан
AVEL 221	Avionics Systems 1 Lab	. 2
AVEL 230	Avionics Systems II	3
AVEL 291	Avionics Systems II Lab	. 2
AVGM 111	Aviation General I	4
AVGM 112	Aviation General II	6
AVGM 113	Aviation General III	4

MINIMUM TOTAL

NOTES:

1. Students must complete each course with a minimum grade of 2.0 to receive the LCC Certificate of Achievement.

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 Students who are testing for the Federal Communication Commission General Radiotelephone Operators License should also enroll in AVEL 225.

SUGGESTED COURSE SEQUENCE

	131		
WAF 211	AVAF 134	AVAF 209	
VEL 150	AVEL 190	AVEL 220	
AVEL 151	AVEL 191	AVEL 221	
1	AVEL 200	10	1
		· ·	-
	VEL 150	AVEL 150 AVEL 190 AVEL 151 AVEL 191	AVEL 150 AVEL 190 AVEL 220 AVEL 151 AVEL 191 AVEL 221 AVEL 200 AVEL 200

AVEL 231

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL RECOMPONENTS AS STATED. THE ONLY OFFICIAL DOCIMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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AVIONICS INSTALLATION CERTIFICATE OF COMPLETION

Curriculum Code: 0847 (Effective Fall 2003 - Summer 2008)

Aviation electronics (avionics) is the application of electronics to aviation. This program is designed for students who are interested in installing and testing complex communication, navigation, radar and autopilot equipment in aircraft. Employment opportunities are at airports that have avionics sales and service facilities, airlines and aircraft manufacturers.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills, assessment and advising information.

INFORMATION

Contact the Aviation Program at the LCC Aviation Center, telephone number (517) 483-1406.

REQUIREME	INTS	TOTAL: 26	CREDI	TS
CODE	TITLE	CR	EDIT HOU	IRS
AVAF 130	Avionics Airframe Applications	 		3
AVAF 134	Aircraft Instruments		- 1 - L	2
AVAF 211	Aircraft Electrical I			4
AVEL 150	Avionics Test Equipment			2
AVEL 151	Avionics Test Equipment Lab		2	1.
AVEL 200	Flight Line Testing			2
AVEL 201	Flight Line Testing Lab			1
AVGM 111	Aviation General I	: · ·		4
AVGM 113	Aviation General III			4
ELCT 131	Digital Basics			3

LIMITED CHOICE REQUIREMENTS.

Complete the indicated number of credits from each CHOICE listed below.

TOTAL: 2 CREDITS

CHOICE 1:	Practical Experience	2 Credits
AVEL 297	Avionics Internship	2
AVEL 299	Advanced Avionics Laboratory	2
î.		
	MINIMUM TOTAL	 28

NOTE:

 Although students do not need any special skills to start the Avionics Certificate Program, they should be aware that color blindness may cause them difficulty because various electronic components are color coded.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

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AVAF 130	AVAF 211	AVEL 200	
AVAF 134	AVEL 150	AVEL 201	
AVGM 111	AVEL 151	Lim.Ch.	
AVGM 113	ELCT 131		¥

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUGIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OF CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER THEY INTEND TO GRADUATE.

POWERPLANT MAINTENANCE TECH ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0745 (Effective Fall 2003 - Summer 2008)

Powerplant Maintenance Technicians maintain aircraft in accordance with the Federal Aviation Regulations. Technicians perform inspections, repairs and alterations to aircraft powerplants, propellers and their related systems. In addition, they troubleshoot the operation of induction, cooling, exhaust, fuel metering, ignition, electrical, starting, lubrication propeller and other associated systems. Powerplant maintenance technicians are employed throughout the world maintaining aircraft for major air carriers, commuter airlines, air freight operators, corporate flight departments, fixed base operators and a variety of other specialized aviation businesses. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Aviation Program at the LCC Aviation Center, telephone number (517) 483-1406.

REQUIREME	NTS	TOTAL: 59 CREDITS		
CODE	TITLE .		CREDIT	HOURS
AVAF 212	Aircraft Electrical II			4
AVGM 111	Aviation General I			4
AVGM 112	Aviation General II			6
AVGM-113	Aviation General III			4
AVGM 114	Material and Processes	-		5
AVPP 241	Reciprocating Engine			8
AVPP 251	Reciprocating Engine Systems			2.
AVPP 253	Reciprocating Ignition Systems		e	5
AVPP 255	Reciprocating Induction System			4 -
AVPP 257	Aircraft Propeller Systems			4
AVPP 259	Turbine Engine I			4
AVPP 261	Turbine Engine II			4
AVPP 263	Turbine Engine Systems			2
AVPP 265	Powerplant Instruments			2
AVPP 267	National Powerplant Cert Proc	• • •		1
<u> </u>				CONTO

LIMITED CHOICE REQUIREMENTS TOTAL: 16-20 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 16-20 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area	8 - A. S.	З
Global Perspectives and Diversity Core Area		3-4
Mathematics Core Area		3-4
Science Core Area		4-5
Writing Core Area		3-4
MINIMUM TOTAL		75

NOTES:

- In accordance with Federal Aviation Regulation part 147, completing the aforementioned curriculum does not constitute approval to take the Federal Aviation Administration Airframe or Powerplant Mechanic written, oral, and
- practical license exams. The FAA approved training director must review individual student enrollment, course records, and certification course testing
- results before considering each student for certification approval. Students are required to meet Federal Aviation Regulations Part 147 training requirements
- to be eligible for certification. Students will be required to complete each certification course with a minimum grade of 71 percent and pass pre-tests for General and Powerplant with a minimum grade of 80 percent to be considered
- for the Federal Aviation Administration written tests. To obtain FAA certification approval, students will be required to complete additional coursework.
 Students must complete each course with a minimum grade of 71 percent to
- Students must complete each course with a minimum grade of a percent t receive the Lansing Community College certificate of achievement.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

I.	11 ·	H S S	IV	
AVGM 111	AVAF 212	AVPP 253	AVPP.261	
AVGM 112	AVPP 241	AVPP 255	AVPP 263	
AVGM 113	AVPP 251	AVPP 257	AVPP 265	
AVGM 114	Lim.Ch.	AVPP 259	AVPP 267	
		Lim.Ch.	Lim,Ch.	
			Lim.Ch.	
			Lim.Ch.	

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POWERPLANT MAINTENANCE TECH CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 1035 (Effective Fall 2003 - Summer 2008)

This certificate of achievement enables a non-licensed individual to expand their knowledge of powerplant maintenance practices used to maintain aircraft engines in accordance with the Title 14 Code of Federal Aviation Regulations. While enrolled in this program, students will learn the basic science and technical knowledge necessary to repair and maintain modern aerospace vehicle powerplants. Graduates will have demonstrated technical abilities in the following areas: reciprocating and turbine engine overhaul and repair, ignition and fuel system maintenance and repair, engine electrical system diagnosis and repair, and engine inspections. Completion of this certificate may be applied to the Airframe and Powerplant License provided the student meets the requirements of the Federal Aviation Regulation Part 147.

PREREQUISITES

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Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Aviation Technology Training Program at the LCC Aviation Center, Room 109, telephone number (517) 483-1406.

REQUIREMENTS			TOTAL: 40	CREDITS
CODE	TITLE		CRE	DIT HOURS
AVAF 212	Aircraft Electrical II			4
AVPP 241	Reciprocating Engine	7		.8
AVPP 251	Reciprocating Engine Systems			2
AVPP 253	Reciprocating Ignition Systems			.5
AVPP 255	Reciprocating Induction System			. 4
AVPP 257	Aircraft Propeller Systems			- 4
AVPP 259	Turbine Engine I	1.1	÷	4
AVPP-261	Turbine Engine II			4
AVPP 263	Turbine Engine Systems			2
AVPP 265	Powerplant Instrumants			2
AVPP 267	National Powerplant Cert Proc			1
	MINIMUM TOTAL			40

MINIMUM TOTAL

NOTES:

- 1. In accordance with Federal Aviation Regulation Part 147, completing the aforementioned curriculum does not constitute approval to take the Federal Aviation Administration Airframe or Powerplant Mechanic written, oral, and practical license exams. The FAA approved training director must review individual student enrollment, course records, and certification course testing results before considering each student for certification approval. Students are required to meet Federal Aviation Regulations Part 147 training requirements to be eligible for certification. Students will be required to complete each certification course with a minimum grade of 71 percent and pass pre-tests for General and Airframe with a minimum grade of 80 percent to be considered for the Federal Aviation Administration written tests. To obtain FAA certification approval, students will be required to complete additional coursework.
- 2. Students must complete each course with a minimum grade of 71 percent to receive the Lansing Community College certificate of achievement.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	1	2 5 1	
AVAF 212	AVPP 253	AVPP 261	
AVPP 241	AVPP 255	AVPP 263	
AVPP 251	AVPP 257	AVPP 265	
	AVPP 259	AVPP 267	
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STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER THEY INTEND TO THE SEMESTER THEY INTEND TO GRADUATE.

BUSINESS

BUSINESS ADMINISTRATION ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0243 (Effective Fall 2003 - Summer 2008)

This degree program, which can be completed entirely online, provides basic instruction in key business areas such as management, marketing, finances, computers and other business-related areas. Graduates of this program may qualify for entry level/hands-on positions. Additional education will enhance an individual's employment and advancement opportunities. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REOUIREME	NTS	TOTAL	: 34 CREDITS
CODE	TITLE	N	CREDIT HOURS
ACCG 210	Principles of Accounting I		4
BUSN 118	Introduction to Business	1. A. A.	3
BUSN 201	International Business	•	3
ECON 201	Principles of Economics-Micro		3
LEGL 215	Busn Law I, Basic Principles		3
MGMT 200	Creative Thinking for Business		3
MGMT 225	Principles of Management		3
MGMT 234	Diversity in the Workplace		Э
MKTG 200	Principles of Marketing		3
SPCH 110	Oral Communic in the Workplace		3
WRIT 127	Business Writing		- 3-

LIMITED CHOICE REOUREMENTS TOTAL: 27-32 CREDITS Complete the indicated number of credits from <u>each</u> CHOICE listed below.

CHOICE 1: General Education Core Areas 7-9 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area Mathematics Core Area	0 (See Note 1) 0 3-4
	Science Core Area Writing Core Area (See Note 1)	4-5 0
CHOICE 2:	Management Related (See Note 2)	5-6 Credits
CHOICE 3:	Marketing Related (See Note 3)	5-6 Credits
CHOICE 4:	Computer Related (See Note 4)	4-5 Credits
CHOICE 5: ACCG 211 BUSN 250 BUSN 251 ECON 202 ECON 213 LABR 200 LABR 204 LEGL 216 LEGL 217 MGMT 345	Business Related (See Note 5) Principles of Accounting II Personal Finance Stook Market Essentials Principles of Economics-Macro U.S. Economic/Business History Intro to Labor Relations Employment Law for Managers Busn Law II, Commercial Law Busn Law II, Busn Organiza Context and Transformation	6 Credits 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
		· · · ·

MINIMUM TOTAL

NOTES:

- Students completing REQUREMENTS have fulfilled the requirements for this Core area.
- Choose courses with a MGMT prefix that are not already used to meet degree requirements. Up to 3 credits total from the T.I.M.E. Series may be used (MGMT 240 - MGMT 279). BUSN 295 may also be used.
- 3. Choose courses with a MKTG prefix that are not already used to meet degree requirements.
- Choose CABS-prefix courses of 110 or above.
 Students should confer with a Business Careers program advisor to assure
- that selection of Limited Choice courses will best fit their career plans. 6. This degree can be completed entirely online. Students wishing to complete
- an online business transfer program should consult with an advisor in the Business Department.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in oourses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

ŧ	11	41	IV .
BUSN 118	BUSN 201 .	ACCG 210	LEGL 215
SPCH 110	MGMT 225	ECON 201 .	Lim.Ch.
WRIT 127	MGMT 234	MGMT 200	Lim.Ch.
Lim.Ch.	MKTG 200	Lim,Ch.	Lim Ch.
Lim.Ch.	Lim.Ch.	Lim.Ch.	Lim.Ch.
Lim.Ch.		· · · · · · · · · · · · · · · · · · ·	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DECORE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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STUDENTS ARE RESPONSIBLE FOR COMPLEXING ALL REQUIREMENTS AS STATED. THE GALL OFFICIAL DOCUMENTATION OF PROGRAM COMPLEXION STATUS IS AN AUDIT CONOUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN

STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

र साम्राज्य क ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0839 (Effective Fall 2003 - Summer 2008)

The Internet is changing the way business is being conducted and the way societies function. E-business is the use of technology in day-to-day business transactions. Students will learn to apply technical and behavioral skills to the various progressive possibilities of e-business as it relates to current business practices. This degree can be completed entirely online. Graduates are prepared to work in a variety of manufacturing, wholesaling, and retailing environments, as well as the service sector of our economy. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

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Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522,

REQUIREME	NTS	TOTAL: 43 CREDITS
CODE	TITLE	CREDIT HOURS
BUSN 118	Introduction to Business	. 3
CABS 103	Internet Basics for Non-Majors	. 2
CABS 195	Microsoft Windows	2
CISB 100	Intro Computer Info Systems	. 3
CISB 114	Programming Logic	. 3
CISB 130	Data Communications	3
CISB 203	Developing Pages for the Web (See Note	1) 3
CISB 204	Commercial Internet Site Momt	3
MGMT 234	Diversity in the Workplace	3
MKTG 119	Mktg/Manage Your Profess Image	-3
MKTG 120	Sales	3
MKTG-200	Principles of Marketing	3
MKTG 210	Marketing on the Internet	· • · · 3
SPCH 110	Oral Communic in the Workplace	. 3
WRIT 124	Technical Writing	. 3
WENT 124	recitinear writing	3
LIMITED CH	DICE REQUIREMENTS	OTAL: 17-19 CREDITS
	indicated number of credits from each CHO	ICE listed below
	General Education Core Areas Education Core Requirements for Informatio Core area proficiency exams, where appro	
each còre are		
	Communication Core Area (See Note 2)	0
	Global Perspectives and Diversity Core Ar	ea (See Note 2) 0
	Mathematics Core Area	3-4
	Science Core Area	4-5
	Writing Core Area (See Note 2)	0
		10.0
CHOICE 2:	Business Related (See Note 3)	10 Credits
ACCG 210	Principles of Accounting I	4
BUSN 295	Small Business Management	3
CABS 110	Intro to Microsoft Office	3
CISB 119	Intro Window Prog Visual BASIC	. 4
CISB 122	Adv Windows Prog Visual BASIC	. 3
CISB 253	WWW Interactive Programming	4
ECON 201	Principles of Economics-Micro	3
MGMT 150	Managing Customer Relations	3
MGMT 200	Creative Thinking for Business	. 3
MKTG 130	Retailing	3
MKTG 140	Introduction to Advertising	3
MKTG 202	Managerial Marketing	3
MKTG 204	Marketing Research	3
MKTG 221	Consumer Behavior	2
MKTG 229	Public Relations	. 2
	MINIMUM TOTAL	60

MINIMUM TOTAL

NOTES:

- 1. Students in this curriculum may be granted approval to waive the prerequisites for this course by calling the Business Department at 483-1522.
- Students completing REQUIREMENTS have fulfilled the requirements for this 2. Core area.
- З. Students may also choose up to 3 credits of T.I.M.E. Series courses (MGMT 240-279): Students should confer with a Business Careers Advisor to assure that the selection of Limited Choice courses will best fit their career plans.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

I ·	li -	H .	IV
BUSN 118	CISB 114	CISB 204	CISB 130
CABS 103	CISB 203	MGMT 234 .	MKTG 119
CABS 195	MKTG 200	MKTG 120	MKTG 210
CISB 100	SPCH 110	WRIT 124	Lim.Ch.
Lim.Ch.	Éim.Ch.	Lim.Ch.	Lim.Ch.

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BUSINESS

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College

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E-BUSINESS CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0845 (Effective Fall 2003 - Summer 2008)

This certificate provides students with the opportunity to develop technical and marketing knowledge necessary to use the Internet as a business tool. Students will learn how to use business, marketing, and web related resources. Emphasis in this program is on business applications. This certificate can be completed entirely online. All of the course work may be applied toward the E-Business, Associate in Business Degree.

PRÉREOUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREME	TOTAL: 22 CREDITS	
CODE	TITLE	CREDIT HOURS
BUSN 118	Introduction to Business	. 3
CABS 103	Internet Basics for Non-Majors	2
CABS 195	Microsoft Windows	2
CISB 203	Developing Pages for the Web (See Note 1) 3
CISB 204	Commercial Internet Site Mgmt	3
MKTG 120	Sales	3
MKTG 200	Principles of Marketing	3
MKTG 210	Marketing on the Internet	3
CABS 195 CISB 203 CISB 204 MKTG 120 MKTG 200	Microsoft Windows Developing Pages for the Web <i>(See Note 1</i> Commercial Internet Site Mgmt Sales Principles of Marketing) 3

LIMITED CHOICE REQUIREMENTS TOTAL: 8-9 CREDITS Complete the indicated number of credits from <u>each</u> CHOICE listed below.

CHOICE 1:	Business Related (See Note 2)		8-9 Credits
BUSN 295	Small Business Management		3
CISB 100	Intro Computer Info Systems		. 3
CISB 114	Programming Logic	. *	3
CISB 130	Data Communications		3
MKTG 221	Consumer Behavior		2
SPCH 110	Oral Communic in the Workplace		3
WRIT 124	Technical Writing		3

MINIMUM TOTAL

NOTES:

1. Students in this curriculum may be granted approval to waive the prerequisites for this course by calling the Business Department at 483-1522.

 Students may also choose up to 2 credits of T.I.M.E. Series courses (MGMT 240-279). Students should confer with a Business Careers Program Advisor to assure that the selection of Limited Choice courses will best fit their career plans.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

l	8	
BUSN 118	CISB 203	
CABS 103	CISB 204	
CABS 195	MKTG 120	÷
MKTG 200	MKTG 210	
Lim. Ch.	Lim, Ch.	
Lim, Ch.	· · · · · ·	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER THEY INTEND TO GRADUATE.

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College

INTERNATIONAL BUSINESS ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0240 (Effective Fall 2003 - Summer 2008)

International business managers plan, organize, and control projects from start to finish for businesses and organizations with international connections. They help their company achieve its goals in differing cultural and governmental situations. Graduates of this program may work for a variety of organizations and businesses, both in this hemisphere and overseas. Knowledge of a foreign language and a technical or business specialty increases one's employability. This degree can be completed entirely online. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course. This degree can be completed entirely online.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

WHEN

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREMENTS		TOTAL: 31 CREDITS
CODE	TITLE	CREDIT HOURS
ACCG 210	Principles of Accounting I	4
BUSN 118	Introduction to Business	3
BUSN 201	International Business	3
CISB 100	Intro Computer Info Systems	
ECON 201	Principles of Economics-Micro	3
ECON 202	Principles of Economics-Macro	3
MGMT 234	Diversity in the Workplace	3.
MKTG 119	Mktg/Manage Your Profess Image	3
MKTG 200	Principles of Marketing	3
SPCH 110	Oral Communic in the Workplace	3

LIMITED CHOICE REQUIREMENTS TOTAL: 30-33 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 10-13 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.) oro Area (Soa Nata 1)

· · · · · · · · · · · · · · · · · · ·	Communication Core Area (See Note 1)		U
•	Global Perspectives and Diversity Core Area (See Not	e 1)	0
	Mathematics Core Area	3	-4
	Science Core Area	4	-5
· ·	Writing Core Area	3	-4
CHOICE 2:	Foreign Language (Choose one subchoice)	8 Credi	ts
Subchoice 24	No. 1997 August and a second second second second second second second second second second second second second		
FREN 121	Elementary French I		4
FREN 122	Elementary French II		4
Subchoice 2E			
GRMN 121	Elementary German I		4
GRMN 122	Elementary German II		4
	Elementary Germann	1	.4
Subchoice 20			
JAPN 121	Elementary Japanese		4
JAPN 122	Elementary Japanese II		4
Sub-bais- 05			
Subchoice 2D			
	Elementary Spanish I		4
SPAN 122	Elementary Spanish II		4

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BUSINESS

CHOICE 3:	International/Business Related (See Note 2)		12 Credits	\$
ACCG 211	Principles of Accounting II			4
BUSN 295	Small Business Management		:	3
GEOG 200	World Regional Geography		· • •	4
GE O G 203	Economic Geography		:	3
HUMS 213	World Civilizations		•	4
HUMS 214	World Civilizations II			4.
LEGL 215	Busn Law I, Basic Principles	14 J.		3
MGMT 101	Management Special Topics		· ·	1
MGMT 225	Principles of Management		· (3
MGMT 231	Team Development		;	3
MGMT 237	Managing/Continual Improvement		:	3
MGMT 280	Management Internship			3
MKTG 101	Marketing Special Topics			1
MKTG 210	Marketing on the Internet		;	3
MKTG 235	Marketing Internship		;	3
POLS 270	International Relations			3
	MINIMUM TOTAL	*	6	1

MINIMUM TOTAL

NOTES:

- Students completing REQUIREMENTS have fulfilled the requirements for this 1. Core area.
- 2. Students should confer with a Business Department program advisor to assure that selection of Limited Choice courses will best fit their career plans.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	11	推]	IV
BUSN 118	BUSN 201	ACCG 210	ECON 202
CISB 100	MKTG 200	ECON 201	Lim.Ch.1
MGMT 234	SPCH 110	Lim.Ch.2	Lim.Ch.2
MKTG 119	Lim,Ch.1	Lim.Ch.3	Lim.Ch.3
Lim.Ch.1	Lim.Ch.3	Lim.Ch.3	Lim.Ch.3

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CHILD DEVELOPMENT ASSOCIATE IN APPLIED SCIENCE

Curriculum Code: 0108 (Effective Fall 2003 - Summer 2008)

This degree program prepares individuals to work in child care as a teacher, feacher assistant, or program director. The curriculum is aligned with the standards issued by the National Association for the Education of Young Children and the Council for Professional Recognition (CDA). Students learn to pian and implement high quality, developmentally appropriate programs for all ages of children, infants through school-age, in both centers and family child care homes. Graduates of the associate degree program meet the educational requirements for child care center program directors as specified by the State of Michigan Child Day Care Center Licensing Regulations. The program involves several semesters of daytime field work in child care settings. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Health and Human Service Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

REQUIREME	ENTS TO	TAL: 45 CRED	ITS -
CODE	TITLE .	CREDIT HO	URS
CHDV 101	Child Growth/Devel: 0-5 Years	· · ·	4
CHDV 111	Child Guidance/Communication (See Note 1)		4
CHDV 112	Family Relationship/Child Care		2
CHDV 113	Health/Safety Issue:Child Care		2
CHDV 188	Caring/Children/Special Needs		2
CHDV 220	Preschool Curric/Learning Env (See Note 1)		4
CHDV 221	Infant-Toddler Program Dev		4.
CHDV 222	School-Age Child Care Prog Dev		2
CHDV 284	Child Development Practicum (See Note 2)	i.	5
ISC 121	Integrated Sci for Education I		4
SOCL 120	Introduction to Sociology		4
WRIT 121	Composition I		4
WRIT 122	Composition II		4

LIMITED CHOICE REQUIREMENTS

TOTAL: 23-24 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 6-7 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area	. Э
	Global Perspectives and Diversity Core Area (See	Note 3) 0
	Mathematics Core Area (See Note 4)	3-4
	Science Core Area (See Note 3)	0
	Writing Core Area (See Note 3)	0
CHOICE 2:	Science (See Note 5)	4 Credits
CHOICE 3:	Humanities (See Note 5)	8 Credits
CHOICE 4:	Administration	2 Credits
CHDV 131	Family Child Care Management	2
CHDV 230	Early Childhood Center Admin	2
CHOICE 5:	Professional Related Courses (See Note 6)	3 Credits
EMSB 107	First Aid/CPR Sem/Daycre Prov	.5
HUSE 100	Introduction to Human Services	3
HUSE 101	Personal Dimensions/Human Serv	2
HUSE 110	intro/Child Abuse and Neglect	· `3`
HUSE 112	Understanding/Substance Abuse	3
HUSE 120	Introduction/Family Violence	2
	MINIMUM TOTAL	68

NOTES:

- CHDV 111 and CHDV 220 must be completed with a minimum 2.5 grade or better. All other required CHDV courses must be completed with a minimum 2.0 grade or better.
- CHDV 284 requires departmental approval. Applications must be submitted one semester in advance to be admitted to CHDV 284, Applications for departmental approval are available in the Health and Human Service Careers Department, Gannon Vocational-Technical Center, Room 1750.
- 3. Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area.
- 4. MATH 118 or MATH 119 are recommended but do not transfer. Students planning to transfer should choose MATH 112.
- See the MACRAO Transfer Agreement in the "Transfer Information" section for appropriate science and humanities courses. BIOL 145 or ISCI 122 are strongly recommended as the science requirement. ENGL 208 is strongly recommended as a humanities choice.
- Students may also choose from CHDV-prefix courses not already used to meet degree requirements.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	II	¥1 .	łΨ
CHDV 101	CHDV 113	CHDV 112	CHDV 188
CHDV 111	CHDV 220	CHDV 221	CHDV 284
WRIT 121	CHDV 222	ISCI 121	Lim.Ch.3
Lim.Ch.1	Lim.Ch.1	SOCL 120	Lim.Ch.4
÷ É			Lim.Ch.5

WRIT 122 Lim.Ch.2

Lim.Ch.3

Lim.Ch.5

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OF CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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CHILD DEVELOPMENT

CHILD DEVELOPMENT CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0133 (Effective Fall 2003 - Summer 2008)

The certificate program prepares individuals for positions as assistant teachers or teachers in child care programs. The curriculum is aligned with the standards issued by the National Association for the Education of Young Children and the Council for Professional Recognition (CDA.) Courses for the certificate can be applied toward the associate degree. This curriculum requires three semesters to complete, not including summer. Several semesters of daytime field work in child care settings are required.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Health and Human Service Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone.number (517) 483-1410.

REQUIREME	INTS	TOTAL: 33 CRED	ITS
CODE .	TITLE	CREDIT HO	URS
CHDV 101	Child Growth/Devel: 0-5 Years	······································	4
CHDV 111	Child Guidance/Communication (See Note 1)	4
CHDV 112	Family Relationship/Child Care		2
CHDV 113	Health/Safety Issue:Child Care		2
CHDV 188	Caring/Children/Special Needs		2
CHDV 2201	Preschool Curric/Learning Env (See Note 1)		4
CHDV 221	Infant-Toddler Program Dev	,	4
CHDV 222	School-Age Child Care Prog Dev		2
CHDV 284	Child Development Practicum (See Note 2)		5
WRIT 121	Composition I		4

LIMITED CHOICE REQUIREMENTS TOTAL: 5 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: CHDV 131 CHDV 230	Administration Family Child Care Management Early Childhood Center Admin	2 Credits 2 2
CHOICE 2:	Professional Related Courses (See Note 3)	3 Credits
EMSB 107	First Aid/CPR Sem/ Davore Prov	.5
HUSE 100	Introduction to Human Services	3
HUSE 101	Personal Dimensions/Human Serv	` 2
HUSE 110	Intro/Child Abuse and Neglect	3
HUSE 112	Understanding/Substance Abuse	3
HUSE 120	Introduction/Family Violence	2
	MINIMUM TOTAL	38

NOTES:

- CHDV 111 and CHDV 220 must be completed with a minimum 2.5 grade or better. Other required CHDV courses must be completed with a minimum 2.0 grade or better.
- CHDV 284 requires departmental approval. Applications must be submitted one semisster in advance to be admitted to CHDV 284. Applications for departmental approval are available in the Health and Human Service Careers Department, Gannon Vocational-Technical Center, Room 1750.
- Students may also choose from CHDV-prefix courses not already used to meet degree requirements.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transterred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	H	NI .	
CHDV 101	CHDV 112	CHDV 284	
CHDV 111	CHDV 113	Lim.Ch.1	
CHDV 221	CHDV 188	Lim.Ch.2	
WRIT 121	CHDV 220	Lim.Ch.2	
	CHDV 222		

CDA CREDENTIAL TRAINING CERTIFICATE OF COMPLETION

Curriculum Code: 0921 (Effective Fall 2003 - Summer 2008)

The CDA (Child Development Associate) Credential is a national credential earned by individuals working with children age five and younger in a group child care setting. The curriculum is aligned with the standards issued by the Council for Professional Recognition (CDA). The certificate provides the training required for CDA credential assessment. To complete field work requirements, students must be working in a child care setting.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Health and Human Service Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

REQUIREME	ENTS	TOTAL: 11 CREDITS
CODE	TITLE	CREDIT HOURS
CHDV 101	Child Growth/Devel: 0-5 Years	• 4
CHDV ² 111	Child Guidance/Communication	· 4
CHDV 251	CDA Credentialing Preparation (See	Note 2) 3
	OICE REQUIREMENTS	TOTAL: 4 CREDITS CHOICE listed below.
CHOICE 1:		4 Credits
CHDV 220	Preschool Curric/Learning Env	- 4
CHDV 221	Infant-Toddler Program Dev	4
· · ·	MINIMUM TOTAL	15
NOTES:		·
1. CHDV 11	1 and CHDV 220 must be completed v	vith a minimum 2.5 grade or
	her required CHDV courses must be co	•
	must be employed or volunteer in an a	
	ren 5 years of age or younger for at lea	
	e observed working as a lead caregiver	
	required for department approval. Appl	
Health a	and Human Service Careers Depar	tment. Gannon-Vocational-

- Technical Center, Room 1750.
 Individuals applying for the CDA credential must have 480 hours of experience
- working with children aged 5 and below in a child care setting.
 CDA credential assessment is conducted by the Council for Professional Recognition, Washington, D.C., and requires a fee and additional assessment

SUGGESTED COURSE SEQUENCE

procedures beyond this certificate.

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

I	11	11	4
CHDV-101	Lim.Ch.	CHDV 251	
CHDV 111			

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CIVIL TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0178 (Effective Fall 2003 - Summer 2008)

Civil engineering technicians apply theory and principles of civil engineering in planning, designing, and overseeing the construction and maintenance of structures and facilities in the highway system. They may work at construction or survey sites, offices or in testing labs with engineers, surveyors, supervisors, managers, or skilled trade workers. The successful civil engineering technician must have a working knowledge of college algebra and trigonometry, civil drafting, communications, construction materials, surveying, and must be computer literate. Civil engineering technicians work for construction, engineering, and architecture firms, government agencies, mapping agencies, and private petroleurn and mining companies.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Manufacturing and Land Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336:

REQUIREMENTS			TOTAL:	63 CRE	DITS
CODE	TITLE '			CREDIT	HOURS
CIVL 101	Civil Drafting				4
CIVL 120	Surveying				4
CIVE 124	Route Survey				. 4
CIVL 131	Traffic Technology	•			3
CIVL 132	Construction Materials				-5
CIVL 135	Soils Technology				3
CIVL 136	Hydrology and Highway Tech				5
CIVL 200	Civil Mathematics				5.
CIVL 241	Statics/Strength of Materials				. 5
GRET 203	Beginning MicroStation				3
MATH 114	Technical Math I			শ	4
MATH 115	Technical Math II				4
PHYS 120	The Art of Physics				4
SOCL 120	Introduction to Sociology				4
SPCH 120	Dynamics of Communication				З.
WBIT 124	Technical Writing				3
	·		•		

LIMITED CHOICE REQUIREMENTS TOTAL: 0 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 0 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area (See Note 1)	0
Global Perspectives and Diversity Core Area (See Note 1)	0
Mathematics Core Area (See Note 1)	0
Science Core Area (See Note 1)	-0
Writing Core Area (See Note 1)	0
MINIMUM TOTAL	63

NOTES:

- Students completing AEQUIREMENTS have fulfilled the requirements for this Core area.
- Students who are interested in practical field experience may apply for the Student Civil Technician Co-op Program. Contact the Manufacturing and Land Technologies Department at 483-1336.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	. (°	n Transa Milana	ŧV	
CIVL 131	CIVL 101	CIVL 124	CIVL 132	
MATH 114	CIVL 120	GRET 203	CIVL 136	
PHYS 120	CIVL 135	MATH 115	CIVL 241	
SPCH 120	CIVL 200	SOCL 120	WRIT 124	•

SURVEYING AND MATERIALS TECH CERTIFICATE OF COMPLETION

Curriculum Code: 1011 (Effective Fall 2003 - Summer 2008)

This certificate provides students with basic instruction in surveying and materials testing used in the civil engineering industry. Students will develop skills in operating high-tech survey equipment; using computational software; and determining the properties of density, bituminous, and concrete materials used in construction. Graduates of this curriculum are prepared for entry level work in surveying and materials testing.

REQUIREMENTS		- 1	TOTAL	.: 17 CRED	ITS
CODE	TITLE			CREDIT HO	DUAS
CIVL 101	Civil Drafting				4
CIVL 120	Surveying (See Note 1)				• 4
CIVL 124	Route Survey				4
CIVL 132 ·	Construction Materials (See Note 1)				5
e transformation de la construcción de la construcc	MINIMUM TOTAL				17

NOTES:

 Math Level 5 or the completion of MATH 114 with a minimum grade of 3.0 is required to enroll in this course.

SUGGESTED COURSE SEQUENCE

			:	
	1	<u>B</u>		 ···
	CIVL 101	CIVL 124		•
-	CIVL 120	CIVL 132		

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2003-2005 Catalog Lans DOMPUTURE AIDED DRAFTING AND DESIGN

College

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CAD/CAM TECHNICIAN ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0892 (Effective Fall 2003 - Summer 2008)

This curriculum is intended for students planning to pursue a career in mechanical computer-aided design and manufacturing (CAD/CAM). Graduates often seek employment with companies who expect their CAD operators to also be computer numerically controlled (CNC) machine tool path programmers as well as designers. The increase in the level of sophistication of computer-aided design systems has necessitated that the designer assist in the creation of the tool path or support machinists engaged in this task. Responsibilities include graphically representing engineering math data and generating the necessary instruction for computer controlled lathes, mills, and automated machine tools, both manually and electronically. CAD/CAM technicians are employed by manufacturing companies, machine shops, and die design and construction shops in many areas of the automotive, aerospace, and special machinery manufacturing market. Not all **courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Manufacturing and Land Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREME	NTS	TOTAL: 62 CREDITS
CODE	TITLE	CREDIT HOURS
CADD 101	Mechanical Drafting/Basic CAD	4
CADD 102	Advanced Mechanical Drafting	4
CADD 1.03	Geometric Dimension/Tolerance	З
CADD 104	Descriptive Geometry	. 4
CADD 131	AutoCAD Basic 2-D	4
CNCP 101	PC Applications for Technology	- 3
CNCP 110	Foundations of CNC Programming	. 4
CNCP 210	Mastercam	. 4
MACH 100	Manufacturing Processes	4
MACH 105	Machine Tool Survey	3
MACH 135	Metallurgy and Heat Treat	4
MATH 114	Technical Math I	4
MATH 115	Technical Math II	. 4
MGMT 234	Diversity in the Workplace	. 3
PHYS 120	The Art of Physics	4
SPCH 110	Oral Communication in the Workplace	3
WRIT 124	Technical Writing	3

LIMITED CHOICE REQUIREMENTS TOTAL: 8 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 0 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area (See Note 1)	. 0
	Global Perspectives and Diversity Core Area (See Note 1)) 0
1 e	Mathematics Core Area (See Note 1)	0
	Science Core Area (See Note 1)	0
•	Writing Core Area (See Note 1)	· 0
CHOICE 2:	Computer Graphics	
	(Choose one subchoice, See Note 2) 8	Credits
Subchoice 2A		
CADD 233	Autodesk Mechanical Desktop	4
CADD 234	Autodesk Inventor	4
Subchoice 28		
CADD 242	Unigraphics Basic	4
CADD 243	Unigraphics Advanced	4
	MINIMUM TOTAL	70

NOTES:

- 1. Students completing *REQUIREMENTS* have fulfilled the requirements for this . Core area.
- 2. The Computer Graphics series (CHOICE 2, 8 credits) may be replaced by another approved computer graphics software package available through the Computer-Aided Drafting and Design Program. See a Computer Aided Drafting and Design program advisor for more information.
- Some prerequisites to courses may be waived based on experiance. See an advisor for more information.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	8	311	<u>yı</u> y	
CADD 101	CADD 102	CADD 104	CNCP 210	
CADD 103	CADD 131	CNCP 110	MGMT 234	
MACH 100	CNCP 101	SPCH 110	PHYS 120	
MACH 105	MACH 135	WRIT 124	Lim, Ch.	
MATH 114	MATH 115	Lim.Ch.		1997

STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAP'S OFFICE THAT IS INITIATED WHEN

LANSING COMMUNITY COLLEGE CATALOG 2003-2005 # 87

COMPUTER-AIDED DRAFTING/DESIGN ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0165 (Effective Fall 2003 - Summer 2008)

This program prepares individuals to apply technical knowledge and skills to plan and prepare scale pictorial interpretations of engineering and design concepts. Students receive instruction in the use of precision drawing instruments, computer-assisted design programs, sketching and illustration, and specification interpretation. Proficiency in the use of current computer-aided design packages, up-to-date geometric tolerancing techniques, and descriptive geometry applications is necessary to succeed in the industrial workplace. Employment possibilities include engineering firms, consulting firms, the automotive industry, manufacturers of special machinery, tool and die industry, etc.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Manufacturing and Land Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREMEN	NTS	TOTAL: 58 CREDITS
CODE	TITLE	CREDIT HOURS
CADD 101	Mechanical Drafting/Basic CAD (See Note	1) . 4
CADD 102	Advanced Mechanical Drafting	.4
CADD 103 .	Geometric Dimension/Tolerance	3
CADD 104	Descriptive Geometry	4
CADD 131	AutoCAD Basic 2-D	4
CADD 284	Jigs and Fixture Design	4
CNCP 101	PC Applications for Technology	3
MACH 100	Manufacturing Processes	
MACH 105	Machine Tool Survey	· · 3
MACH 135	Metallurgy and Heat Treat	. 4
MATH 114	Technical Math I	. 4
MATH 115	Technical Math II	4
MGMT 234	Diversity in the Workplace	3
PHYS 120	The Art of Physics	. 4
SPCH 110	Oral Communication in the Workplace	3
WRIT 124	Technical Writing	3

LIMITED CHOICE REQUIREMENTS TOTAL: 8 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 0 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

e are	ea.)	
	Communication Core Area (See Note 2)	0
	Global Perspectives and Diversity Core Area (See Note 2)	0
	Mathematics Core Area (See Note 2)	0
	Science Core Area (See Note 2)	0
	Writing Core Area (See Note 2)	0
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	Computer Graphics	
	(Choose one subchoice. See Note 3)	8 Credits
Subchoice 2	A	
CADD 232	AutoCAD Advanced 3-D	4
CADD 233	Autodesk Mechanical Desktop (See Note 4)	4
Subchoice 2	B	
CADD 242	Unigraphics Basic	4
CADD 243	Unigraphics Advanced	4
		· · ·
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	MINIMUM TOTAL	65

NOTES:

- Basic mechanical drafting skills are necessary to begin this curriculum and may be demonstrated by a score of 80% or better on the Drafting Placement Test or by passing CADD 100 with a 2.5 minimum grade.
- 2. Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area.
- The Computer Graphics series (8 credits) may be replaced by another approved computer graphics software package available through the CADD Program. See a CADD program advisor for more information.
- 4. CADD 234 Autodesk Inventor may be substituted for CADD 233.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1.5	I	M	IV	: .
CADD 101	CADD 102	MACH 135	CADD 284	
CADD 103	CADD 104	. SPCH 110	MGMT 234	
CNCP-101	CADD 131	WRIT 124	PHYS 120	
MACH 100	MACH 105	Lim.Ch.2	Lim.Ch.2	
MATH 114	MATH 115		50 - C	

STUDENTS AREIRESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE, STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO OFFICIALE.

COMPUTER-AIDED DRAFTING/DESIGN CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0145 (Effective Fall 2003 - Summer 2008)

This curriculum has been identified by local industry as comprising the minimal requirements needed for employment consideration. Students completing this curriculum are eligible to apply for entry-level drafting or computer-aided designer (CAD) positions.

PREREQUISITES

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INFORMATION

Contact the Manufacturing and Land Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREME	NTS	TOTAL: 27 CREDITS
COÐE .	TITLE	CREDIT HOURS
CADD 101	Mechanical Drafting/Basic CAD	4
CADD 102	Advanced Mechanical Drafting	4
CADD 103	Geometric Dimension/Tolerance	3
CADD 104	Descriptive Geometry	4
CADD 131	AutoCAD Basic 2-D	. 4
MACH 100	Manufacturing Processes	. 4
MATH 114	Technical Math I	4
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
LIMITED CH	DICE REQUIREMENTS	TOTAL: 8 CREDITS
Complete the	indicated number of credits from each CH	OICE listed below.
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CHOICE 1:	Computer Graphics	
	(Choose one subchoice. See Note 2)	8 Credits
Subchoice 1	Α	· .
CADD 232	AutoCAD Advanced 3-D.	4
CADD 233	Autodesk Mechanical Desktop	4
Subchoice 1	B i "	
CADD 242	Unigraphics Basic	4
CADD 243	Unigraphics Advanced	4

NOTE:

 Basic mechanical drafting skills are necessary to begin this curriculum and may be demonstrated by a score of 80% or better on the Drafting Placement

Test or by passing CADD 100 with a 2.5 minimum grade. 2. The Computer Graphics series (8 credits) may be replaced by another

approved computer graphics software package available through the CADD Program. See a CADD program advisor for more information.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	U		IV	
CADD 101	CADD 102	MACH 100	Lim.Ch.	
CADD 103	CADD 104	Lim.Ch.		
MATH 114	CADD 131			

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION'STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

COMPUTERS

COMPUTER NETWORK/COMMUNICATION ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0791 (Effective Fail 2003 - Summer 2008)

Computer networking and communication specialists plan, develop, and administer network and communication systems. They may develop applications to be deployed and oversee the operation of the network. They may provide software and hardware support for the networking infrastructure including database development. They will work with Internet and World Wide Web connections including the development of home pages and e-mail.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Information Technology and Office Systems Department, Oid Central Building, Room 137, telephone number (517) 483-1546.

REQUIREMENTS			TOTAL: 46 CREDITS		
0005	TITLE	·		CREDIT HOURS	
CABS 195	Microsoft Windaws				. 2
CISB 100	Intro Computer Info Systems				3
CISB 102	Internet Literacy				3 .
CISB 119	Intro Window Prog Visual BASIC				4.
CISB 130	Data Communications				З.
CISB 133	Operating Systems				3
CISB 200	Info Sys Tech/Problem Solving				. 3
CIS8 203	Developing Pages for the Web			·	Э
CISB 204	Commercial Internet Site Mgmt				3
CISB 230	Intro to Local Area Networks				· · 3
CISB 231	Advanced Local Area Networks				. 3
CISB 233	Microsoft Network Server				3
ISCI 131	Integrated Science - Physical				4
MATH 119	Investigations with Math				3
OADM 275	Cultural Differences in Bush				3
		1 A A A			DEDIZO.

LIMITED CHOICE REQUIREMENTS TOTAL: 15-17 CREDITS Complete the indicated number of credits from <u>each</u> CHOICE listed below.

CHOICE 1: General Education Core Areas 3 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area	. 3
	Global Perspectives and Diversity Core Area	(See Note 1) 0
· · · ·	Mathematics Core Area (See Note 1)	, O
	Science Core Area (See Note 1)	· . 0
	Writing Core Area (See Note 2)	. 0
CHOICE 2:	Writing	3-4 Credits
WRIT 121	Composition I	4
WRIT 124	Technical Writing	3
CHOICE 3	Web Programming	3-4 Credits
CISB 253	WWW Interactive Programming	. 4
CISB 283	Intro to JAVA Programming	3

6 Credits Computer Specialty Area (See Note 3) CHOICE 4: З CABS 110 Intro to Microsoft Office з Advanced Microsoft Office CABS 210 Ś Adv Windows Prog Visual BASIC CISB 122 З Introduction to Oracle: SQL CISB 137 3 Intro to C/C++ Program for Bus CISB 180 3 Linux/UNIX Operating System CISB 234 3 Microcomputer Hardware Support CISB 235 3 Microcomputer Software Support CISB 236 2 Microcomputer Project CISB 247 3 CISB 250 Database Concepts 4 Systems Analysis and Design CISB 260 З Systems Implementation CISB 261 3 Visual C++ Programming CISB 281 3 CISB 283 Intro to JAVA Programming

NOTES:

- Students completing REQUIREMENTS have fulfilled the requirements for this. Core area.
- Students must complete one course from CHOICE 2 to fulfill the requirements for this Core area.
- Other CABS or CISB-prefix courses may be approved for CHOICE 4 by a Computer Information Systems Academic Program advisor.
- For graduation from this program, a student must have earned a minimum 2.0 grade in each course with a CABS or CISB prefix.

SUGGESTED COURSE SEQUENCE

MINIMUM TOTAL

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

	· II	¥I)	IV
CABS 195	CISB 102	CISB 200	CISB 204
CISB 100	CISB 130	CISB 203	CISB 231
CISB 119	OADM 275	CISB 230	CISB 233
CISB 133	Lim.Ch.2	MATH 119	ISCI 131
Lim.Ch.4	Lim.Ch.4	Lim.Ch.1	Lim.Ch.3

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER TRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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COMPUTER NETWORK/COMMUNICATION CERTIFICATE OF COMPLETION

Curriculum Code: 0842 (Effective Fall 2003 - Summer 2008)

This certificate provides students with the upper level technical skills necessary to plan, develop, and administer network and communications systems. It is designed for students who already have basic computer skills and want to specialize in computer networking. This course work will apply toward completion of the Computer Networking/Communication Associate in Business.

PREREQUISITES

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INFORMATION

Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREMENTS		TOTAL: 21 CREDITS
CODE	TITLE	CREDIT HOURS
CISB 100	Intro Computer Info Systems	3
CISB 130	Data Communications	. 3
CISB 133	Operating Systems	3
CISB 230	Intro to Local Area Networks	3
CISB 231	Advanced Local Area Networks	3
CISB 233	Microsoft Network Server	3
CISB 234	Linux/UNIX Operating System	3
LIMITED, CHO	ICE REQUIREMENTS	TOTAL: 6 CREDITS
Complete the	indicated number of credits from each Cl	HOICE listed below.
CHOICE 1:	Computer Specialty Area	6 Credits
CABS 110	Intro to Microsoft Office	3
CABS 210	Advanced Microsoft Office	3
CISB 122	Adv Windows Prog Visual BASIC	Э
CISB 137	Introduction to Oracle: SQL	3
CISB 180	Intro to C/C++ Program for Bus	. 3
CISB 235	Microcomputer Hardware Support	. 3
CISB 236	Microcomputer Software Support	3
CISB 247	Microcomputer Project	2
CISB 250	Database Concepts	3
CISB 260	Systems Analysis and Design	. 4
CISB 281	Visual C++ Programming	3
CISB 283	Intro to JAVA Programming	. 3
÷	MINIMUM TOTAL	27

NOTES:

1. Prerequisites may be waived based on experience. See an Information Technology program advisor prior to registration for more information.

 Students must complete each CABS and CISB course with a minimum grade of 2.0 to receive this certificate of completion.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

L	H	18	IV	
CISB 100	CISB 130	CISB 230	CISB 231	
Lim:Ch.	CISB 133	CISB 233	 LimtCh. 	
	· .	CISB 234		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

COMPUTERS

2003-2005 Catalog Lansing Community College

Curriculum Code: 0113 (Effective Fall 2003 - Summer 2008)

Programmer/analysts plan, develop, test, and document computer programs at the request of a specific user, applying knowledge of programming techniques and computer systems. They may evaluate user requests to determine feasibility, cost and time required, as well as compatibility with current system and computer capabilities. In addition, they read manuals, periodicals, and technical reports to develop programs that meet user requirements. They formulate a plan outlining steps required to develop programs and convert project specifications into program source instructions which are entered into the computer system and tested. They may write documentation and the user manual. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREMENTS		TOTAL: 40 CREDITS
CODE	TITLE ·	CREDIT HOURS
CABS 195	Microsoft Windows	
CISB 100	Intro Computer Info Systems	3
CISB 102	Internet Literacy	. 3
CISB 114	Programming Logic	3
CISB 130	Data Communications	. 3
CISB 133	Operating Systems	3
CISE 200	Info Sys Tech/Problem Solving	. 3
CISB 250	Database Concepts	3
GISB 260	Systems Analysis and Design	4
CISB 261	Systems Implementation	. 3
ISCI 131	Integrated Science - Physical	- 4
MATH 119	Investigations with Math	. 3
OADM 275	Cultural Differences in Bush	3
		TOTAL: 23-25 CREDITS

LIMITED CHOICE REQUIREMENT: Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas	3 Credits
(See General Education Core Requirements for information on how to	o fulfill these
requirements. Core area proficiency exams, where appropriate, are	available for
each core area.)	0

1	Communication Core Area		3.
1	Global Perspectives and Diversity Core Area (See)	Note 1)	0
	Mathematics Core Area (See Note 1)		. 0
	Science Core Area (See Note 1)		0
. •	Writing Core Area (See Note 2)		0
CHOICE 2:	Programming Tracks (Choose two subchoices)	14 Crei	dits
Subchoice 2	A: Visual Basic Programming Track		
CISB 119	Intro Window Prog Visual BASIC		4
CISB 122	Adv Windows Prog Visual BASIC		З
Subchoice 2	3: C Programming Track	•	
CISB 180	Intro to C/C++ Program for Bus		3
CISB 280	Adv C/C++ Program with OOP		4
Subchoice 2	C: COBOL Programming Track		
CISB 170	COBOLI	$\sim 10^{-1}$	4
CISB 270	COBOL II		3
Subchoice 2	D: Internet Programming Track		
CISB 253	WWW Interactive Programming		4
CISB 283	Intra to JAVA Programming		3

CHOICE 3:	Writing		9		3-4	Credits
WRIT 121	Composition I					4
WRIT 124	Technical Writing				· · ·	. 3
CHOICE 4:	Business Related	÷			3-4	Credits
ACCG-100	Practical Accounting Non-Major				. N. A. A.	- 3
ACCG 210	Principles of Accounting I			1.1.1		4
BUSN 118	Introduction to Business					3
	MINIMUM TOTAL		• .			. 63

MOTES:

- Students completing REQUIREMENTS have fulfilled the requirements for this 1. Core area.
- Students must complete one course from CHOICE 3 to fulfill the requirements 2 for this Core area.
- For graduation from this program, a student must have earned a minimum 2.0 3. grade in each course with a CABS or CISB prefix.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school; or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1 .	11	04	ŧ٧	· .
CABS 195 CISB 100 CISB 114 CISB 130	CISB 102 CISB 133 CISB 200 Lim.Ch.1	CISB 250 CISB 260 OADM 275 Lim.Ch.2	CISB 261 ISCI 131 MATH 119 Lim.Ch.2	· · /
Lim.Ch.3	Lim.Ch.2	Lim.Ch.2	Lim.Ch.4	

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STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER THEY INTEND TO GRADUATE.

TOTAL: 6 CREDITS

COMPUTER PROGRAMMER/ANALYST CERTIFICATE OF COMPLETION

Curriculum Code: 0969 (Effective Fall 2003 - Summer 2008)

This certificate provides students with the entry-level skills to perform as a computer programmer of business applications in one language. It is designed for students who already have basic computer skills. Course work may be applied toward completion of the Computer Programmer/Analyst Associate in Business degree.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREM	ENTS	TOTAL: 20 CRED	ITS
SODE	TITLÉ.	GREDIT HO	URIS
CISB 100	Intro Computer Info Systems	 	3 .
CISB 102	Internet Literacy		з
CISB 119	Intro Window Prog Visual BASIC	··	4
CISB 122	Adv Windows Prog Visual BASIC		З
CISB 250	Database Concepts	1	Э
CISB 260	Systems Analysis and Design	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	4
	· · · · · ·		

LIMITED CHOICE REQUIREMENTS TOTAL: 3-4 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	Business Related Electives		3-4 Credits
ACCG 100	Practical Accounting Non-Major		3
ACCG 210	Principles of Accounting I	· .	. 4
BUSN 118	Introduction to Business		3
	· · ·		
	MINIMUM TOTAL		23

NOTES:

 Prerequisites may be waived based on experience. See an Information Technology program advisor prior to registration for more information.

 Students must complete each CISB course with a minimum grade of 2.0 to receive this certificate of completion.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	4		2
CISB 100	CISB 102		
CISB 119	CISB 122		
Lim.Ch.1	CISB 250	•	
	CISB 260		
		· .	

COMPUTER REPAIR TECHNICIAN CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0168 (Effective Fall 2003 - Summer 2004)

This program provides technical knowledge and skills to repair and service computers, test computers and computer components, and diagnose causes of malfunctions: Individuals are prepared for entry-level positions. This certificate will be able to be used toward an associate degree curriculum that is ourrently under development in the Computer Information Technology Program. Students should contact a CIT Program advisor at (517) 483-1546 for information.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREM	ENTS	TOTAL:	25 CR	EDITS
CODE	TITLE	. •	CREDIT	HOURS
ELCT 100	Schematic Drawing		•	1
ELCT 160	Logic Problems Analysis	· · ·	1.1	3.
ELCT 161	Soldering/Desoldering			. 1
ELCT 170	Computer Repair Electronics I	· .	1.5	6
ELCT 171	Computer Repair Electronics II	11 A		6
ELCT 175	Computer Troubleshooting	100 A 100 A		3
ELCT 180	Computer Test Equipment I			3
ELCT 181.	Computer Test Equipment II			· 2

LIMITED CHOICE REQUIREMENTS

Complete the indicated number of credits from each CHOICE listed below.

	1.1		
	CHOICE 1:	Software	3 Credits
	CABS 195	Microsoft Windows	. 2
	CISB 107	DOS Management	· · 1
	CISB 130	Data Communications	. 3
	CISB 133	Operating Systems	. 3
	CISB 230	Intro to Local Area Networks	3
	CHOICE 2:	Communication	3 Credits
•	SPCH 110	Oral Communic in the Workplace	3
	WRIT 124	Technical Writing	3
		MINIMUM TOTAL	31
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NOTE:

 Students interested in using this certificate toward an associate degree in Computer Information Technology should contact a CIT Program advisor at (517) 483-1546.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	11
ELCT 100	ELCT 171
ELCT 160	ELCT 175
ELCT 161	ELCT 181
ELCT 170	Lim.Ch.
ELCT 180	Lim.Ch.

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COMPUTER SECURITY AND CONTROLS ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0253 (Effective Fall 2003 - Summer 2008)

Computer auditors plan and conduct audits of data processing systems and applications to safeguard assets, ensure accuracy of data, and promote operational efficiency. They may interview workers and examine records to gather data by following an audit plan and using the computer. They analyze data gathered to evaluate effectiveness of controls and determine accuracy of reports and efficiency and security of operations. They devise, write, and test computer programs necessary to obtain information needed for audit. They devise controls for new or modified computer applications to prevent inaccurate calculations and data loss, and to ensure discovery of errors.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREME	NTS	TOTAL: 51 CRED	ITS
CODE	TITLE	CREDIT HO	UAS
ACCG 210	Principles of Accounting 1	·	4
ACCG 211	Principles of Accounting II		4
ACCG-220	Intermediate Accounting 1		4
ACCG 221	Intermediate Accounting II	• •	4
ACCG 290	Auditing		З
CISB 100	Intro Computer Info Systems		3
CISB 114	Programming Logic	•	3
CISB 130	Data Communications		3
CISB 133	Operating Systems		З
CISB 137	Introduction to Oracle: SQL		З.
CISB 170	CQBOLI		4
CISB 230	Intro to Local Area Networks		3_1
CISB 250	Database Concepts		3
CISB 260	Systems Analysis and Design		4
CISB 270	CQBOL II		3
	OICE REQUIREMENTS	TOTAL: 16-20 CRED	ITS
CHOICE 1:	General Education Core Areas	16-20 Cree	dits
(See Genera	Education Core Requirements for inf	ormation on how to fulfill th	ese
requirements	. Core area proficiency exams, where	e appropriate, are available	for
each core ar	ea.)		
	Communication Core Area		3
	Global Porsportivon and Diversity (Caro Aroa	2.4

 Global Perspectives and Diversity C 	ore Area	3-4
Mathematics Core Area		3-4
Science Core Area		4-5
Writing Core Area		3-4
MINIMUM TOTAL	· · · ·	67

NOTE:

1. For graduation, a student must have earned a minimum 2.0 grade point average in courses with a CISB and ACCG prefix.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	U · · ·	W	v	· · ·
ACCG 210	ACCG 211	ACCG ¹ 220	ACCG 221	
CISB 100	CISB 137	CISB 133	CISB 250	1.1
CISB 114	CISB 170	CISB 230	Lim.Ch.	
CISB 130	CISB 260	CISB 270	Lim.Ch.	
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ACCG 290

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INFO TECHNOLOGY JOB READINESS CERTIFICATE OF COMPLETION

Curriculum Code: 1038 (Effective Fall 2003 - Summer 2008)

This certificate is designed for individuals wishing to gain basic technology skills for entry-level positions in the workplace. Students will learn the basics of the Microsoft Windows operating system, Microsoft Office productivity tools, basic business communication skills, and employability skills.

PREREQUISITES

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Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREMEN	VTS	TOTAL: 6 CREDITS
CODE	TITLE	CREDIT HOURS
CABS 106	Microsoft Windows Experience	· 1
CISB 100	Intro Computer Info Systems	· 3·
OADM 105	Employability Skills	. 1.
OADM 106	Keyboarding Basics	1
LIMITED CHO	DICE REQUIREMENTS	TOTAL: 9-12 CREDITS
Complete the	indicated number of credits from each CH	OICE listed below.
	Business Releted	0 Overdite
CHOICE 1: BUSN 118	Introduction to Business	3 Credits
		3
OADM 203	Professional Office Procedures	3
CHOICE 2:	Writing	3 Credits
WRIT 114	Business English	3
WRIT 127	Business Writing	3
CHOICE 3:	Computer Related (Choose one subcho	oice) 3-6 Credits
Subchoice 3A	A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF	
CABS 110	Intro to Microsoft Office	3
Subchoice 3E		
CABS 119	Microsoft Word	
CABS 119	Excel	3
UADO 120	EXCer	3
	MINIMUM TOTAL	15

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transterred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

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1	11		
CABS 106	Lim.Ch.1		
CISB 100	Lim.Ch.2		
OADM 105	Lim.Ch.3		
OADM 106	Lim.Ch.3	,	

INFORMATION TECHNOLOGY BASICS CERTIFICATE OF COMPLETION

Curriculum Code: 0844 (Effective Fall 2003 - Summer 2008)

This certificate provides the basic classes for Computer Information Systems Associate in Business degrees. Students will learn introductory concepts of computer usage in business. This certificate can be completed entirely online. This course work will apply toward completion of an Associate Degree in Business in the areas of Computer Networking/Communications, Microcomputer Database Specialist, or Computer Programmer/Analyst.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREME	INTS	TOTAL: 17 CREDITS
CODE	TITLE	CREDIT HOURS
CABS 195	Microsoft Windows	2
CISB 100	Intro Computer Info Systems	. 3
CISB 114	Programming Logic	3
CISB 130	Data Communications	3
CISB 133	Operating Systems	. 3
CISB 200	Info Sys Tech/Problem Solving	3
Complete the	OICE REQUIREMENTS	
CHOICE 1:	Writing	3-4 Credits
WRIT 121	Composition I	
WRIT_124	Technical Writing	3
н н. Н	MINIMUM TOTAL	20
	must complete each CABS and CISB c receive this certificate of completion.	ourse with a minimum grade

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	B			
CABS 195	, CISB 130		 ÷	
CISB 100	CISE 133			
CISB 114	CISB 200			+
Lim.Ch.		:		

HEN STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REGUREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

INTERNET FOR BUSINES CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0794 (Effective Fall 2003 - Summer 2008)

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This program provides students with technical knowledge and skills to use the Internet, the global network which links computer users and information on a world-wide scale. Students will learn how to maximize the use of Internet and World Wide Web resources. Emphasis in this program is on business applications. Course work may be applied toward completion of the Computer Network/ Communication Associate in Business Degree:

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREMENTS		TOTAL: 24 CREDITS
CODE	TITLE	CREDIT HOURS
CA8S 195	Microsoft Windows	··· 2
CISB 100	Intro Computer Info Systems	3
CISB,102	Internet Literacy	3
CISB 119	Intro Window Prog Visual BASIC	. 4
CISB 130	Data Communications	3
CISB 203	Developing Pages for the Web	. 3
CISB 204	Commercial Internet Site Momt	3.
OADM 275	Cultural Differences in Bush	3
		1

LIMITED CHOICE REQUIREMENTS TOTAL: 9-11 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	Programming	3-4 Credits
CISB 253	WWW Interactive Programming	4
CISB 283	Intro to JAVA Programming	3
	and the second second second second second second second second second second second second second second second	
CHOICE 2:	Speech Communication (See Note 2)	3 Credits
SPCH 110	Oral Communic in the Workplace	3
SPCH 120	Dynamics of Communication	Э
CHOICE 3:	Writing (See Note 3)	3-4 Credits
WRIT 121	Composition I	
WRIT 124	Technical Writing	Э
	MINIMUM TOTAL	33
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NOTES:

- 1. For graduation from this program, a student must have earned a minimum 2.0 grade in each course with CABS and CISB prefixes
- Students completing CHOICE 2 will fulfill the LCC General Education Communication Core Area requirement for an associate degree.
- Students completing CHOICE 3 will fulfill the LCC General Education Writing З. Core Area requirement for an associate degree.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1.	- 11	121	ΙV
CABS 195	CISB 102	CISB 203	CISB 204
CISB 100	CISB 119	Lim.Ch.3	Lim.Ch.1
OADM 275	CISB 130)
Lim.Ch.2		1	1

INTERNET FOR BUSINESS CERTIFICATE OF COMPLETION

Curriculum Code: 0843 (Effective Fall 2003 - Summer 2008)

This certificate provides students with the technical skills necessary to use the Internet as an effective business resource, including building and maintaining commercial web-sites. It is designed for students who already have basic computer skills and want to specialize in Internet and web-programming. This course. work will apply toward completion of the Computer Networking/Communications Associate in Business degree.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREMENTS		TOTAL: 19 CREDITS
CODE	TITLE	CREDIT HOURS
CISB 100	Intro Computer Info Systems	3
CISB 102	Internet Literacy	3
CISB 119	Intro Window Prog Visual BASIC	4
CISB 203	Developing Pages for the Web	3
CISB 204	Commercial Internet Site Mgmt	3
OADM 275	Cultural Differences in Bush	3
i interest		
	DICE REQUIREMENTS indicated number of credits from <u>each</u>	TOTAL: 3-4 CREDITS CHOICE listed below.

CISB 253 CISB 283	Programming Elective WWW Interactive Programming Intro to JAVA Programming	· . · ·	3-4 Credits 4 3
		· · ·	22

NOTES:

1. Prerequisites may be waived based on experience. See an Information Technology program advisor prior to registration for more information.

2 Students must complete each CISB course with a minimum grade of 2.0 to receive this certificate of completion.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

l	H .	. HI	IV ·
CISE 100	CISB 102	CISB 203	CISB 204
CISB 119			Lim.Ch.
OADM 275	1. A.		

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College

MICROCOMP DATABASE SPECIALIST ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0922 (Effective Fall 2003 - Summer 2008)

As the information Age matures, décisions at all levels of an organization are based upon relevant information. Organizations seek specialists who can plan for and accomplish the acquisition and retrieval of needed information. These specialists must be able to determine information requirements of users; use technology systems and processes to devise means through which to gather and sort needed information; and implement effective solutions for reporting necessary information is frequently involve the use of microcomputers to create the required input screens or output reports. Data for these systems can come from a networked and/or stand-alone environment. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Information Technology and Office Systems Department, Old Central-Building, Room 137, telephone number (517) 483-1546.

REQUIREMENTS			TOTAL: 60 CREDITS	
ÇODE	TITLE	·	CREDI	T HOURS
CABS 133	Microsoft Access Database			3
CABS 232	Advanced Microsoft Access			2 ·
CABS 264	Programming Microsoft Access	1		3
CISB 100	Intro Computer Info Systems		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	з
CISB 119	Intro Window Prog Visual BASIC		· .	4
CISB 122	Adv Windows Prog Visual BASIC			3
CISB 130	Data Communications		1.11	3
CISB 133	Operating Systems			3
CISB 137	Introduction to Oracle: SQL			3
CISB 138	Oracle PL/SQL Program Units			- 3
CISB 147	Oracle Build Internet Apps I			3
CISB 148	Oracle Build Internet Apps II			3
CISB 200	Info Sys Tech/Problem Solving			. 3
CISB 250	Database Concepts			Э
CISB 251	Database Design			4
CISB 260	Systems Analysis and Design	1.1		4
ISCI 131.	Integrated Science - Physical			. 4
MATH 119	Investigations with Math	÷		3 .
OADM 275	Cultural Differences in Busn			31
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LIMITED CHOICE REQUIREMENTS

Complete the indicated number of credits from each CHOICE listed below.

TOTAL: 6-7 CREDITS

CHOICE 1: General Education Core Areas 0 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are evailable for each core area.)

	Communication Core Area (Se	e Note 1) 0
	Global Perspectives and Diver	sity Core Area (See Note 2) 0
	Mathematics Core Area (See	Note 2) 0
	Science Core Area (See Note	21 0
	Writing Core Area (See Note 3	3)
CHOICE 2:	Communication	3 Credits
SPCH 110	Oral Communic in the Workpla	
SPCH 120	Dynamics of Communication	
01 011 120	Bynamics of Communication	
CHOICE 3:	Writing	3-4 Credits
WRIT 121	Composition I	4
WRIT 124	Technical Writing	3
WRIT 127	Business Writing	
	· . · · · ·	· · · · · ·
	MINIMUM TOTAL	

NOTES:

- Students must complete one course from CHOICE 2 to fulfill the requirements for this Core area.
- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Students must complete one course from CHOICE 3 to fulfill the requirements for this Core area.
- 4. For graduation, a student must earn a minimum 2.0 grade in all courses.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	<u> </u>	: 18	IV .
CABS 133	CABS 232	CABS 234	CISB 148
CISB 100	CISB 119	CISB 122	CISB 251
CISB 137	CISB 130	CISB 147	CISB 260
OADM 275	CISE 133	CISB_250	ISCI 131
Lim,Ch,2	CISB 138	MATH 119	Lim.Ch.3
	CISB 200		

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COMPUTERS

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MICROCOMP DATABASE SPECIALIST CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0917 (Effective Fall 2003 - Summer 2008)

Certificate holders may qualify for entry level/hands-on positions in this or a related area. Additional training will enhance individual employment and advancement opportunities.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREMENTS		 TOTAL: 27 CREE			
CODE	TITLE	CREDIT	HOURS		
CABS 133	Microsoft Access Database	 	-3		
CABS 232	Advanced Microsoft Access		2		
CABS 234	Programming Microsoft Access	1	3		
CISB 100	Intro Computer Info Systems		3		
CISB 104	Introduction to DOS		1		
CISB 114	Programming Logic		З		
CISB 130	Data Communications		3		
CISB 137	Introduction to Oracle: SQL		3		
CISB 200	Info Sys Tech/Problem Solving		3		
CISB 250	Database Concepts		. 3		

LIMITED CHOICE REQUIREMENTS TOTAL: 6 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	OICE 1: Computer Specialty Area (See Note 1)	
CABS 195	Microsoft Windows	2
CISB 119	Intro Window Prog Visual BASIC	÷ 4
CISB 133	Operating Systems	3
CISB 138	Oracle PL/SQL Program Units	3
CISB 147	Oracle Build Internet Apps I	3
CISB 148	Oracle Build Internet Apps II	Э
CISB 230	Intro to Local Area Networks	3
		•

MINIMUM TOTAL

NOTES: .

1. Other CABS or CISB-prefix courses may be approved for CHQICE 1 by an Information Technology program advisor.

2. For graduation, a student must have earned a minimum 2.0 grade in all courses.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	18	 •		
CABS 133	CABS 234	• •		
CABS.232	CISB 104			
CISB 100	CISB 130			
CISB 114	CISB 200			
CISB 137	CISB 250	 4.6	÷	
Lim,Ch.1	Lim.Ch.1			÷.

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MICROCOMP SUPPORT SPECIALIST ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0713 (Effective Fall 2003 - Summer 2008)

Microcomputer support specialists install, modify and make minor repairs to microcomputer hardware and software systems and provide technical assistance and training to system users. They install or assist service personnel in installation of hardware and peripheral components, such as monitors, keyboards, printers, and disk drives on user's premises, following design or installation specifications. They may also load software packages into the computer; instruct users in use of equipment, software, and manuals; answer clients' inquiries concerning the systems operation; and diagnose system hardware, software, and operator problems.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number 483-1546.

REQUIREMENTS		TOTAL: 51 CREDITS
CODE	TITLE	CREDIT HOURS
CABS 119	Word for Windows	3
CABS 126	Excel	3
CABS 133	Microsoft Access Database	3
CABS 182	Microsoft PowerPoint	3
CABS 195	Microsoft Windows	2
CISB 100	Intro Computer Info Systems	3
CISB 102	Internet Literacy	3
CISB 114	Programming Logic	3
CISB 130	Data Communications	3
CISB 133	Operating Systems	3
CISB 200	Info Sys Tech/Problem Solving	3
CISB 230	Intro to Local Area Networks	3
CISB 235	Microcomputer Hardware Support	3
CISB 236	Microcomputer Software Support	3
ISCI 131	Integrated Science - Physical	4
MATH 119	Investigations with Math	3
OADM 275	Cultural Differences in Busn	3

LIMITED CHOICE REQUIREMENTS

TOTAL: 15-17 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 3 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area
Global Perspectives and Diversity Core Area (See Note 1)
Mathematics Core Area (See Note 1)
Science Core Area (See Note 1)
Writing Core Area (See Note 2)

CHOICE 2:	
WRIT 121	
WRIT 124	

Writing Composition I Technical Writing

0 3-4 Credits

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CHOICE 3:	Computer Related (See Note 3)		6 Crec	lits
CABS 129	Excel-Advanced			3.
CABS 180	Desktop Publishing PageMaker			3
CABS 219	Advanced Microsoft Word			3
CABS 232	Advanced Microsoft Access			2
CABS 234	Programming Microsoft Access	· ·		: 3
CISB 203	Developing Pages for the Web	· .	that is a set	3
CISB 231	Advanced Local Area Networks		and the second	. Э
CISB 247	Microcomputer Project			2
CISB 250	Database Concepts		1.00	3
CISB 260	Systems Analysis and Design		45	4
· · ·			1.1	
CHOICE 4:	Accounting		- 3-4 Crec	lits
ACCG 100	Practical Accounting Non-Major	1		3
ACCG 210	Principles of Accounting I			4
	MINIMUM TOTAL			66

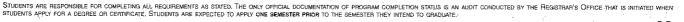
NOTES:

- Students completing REQUIREMENTS have fulfilled the requirements for this 1. Corea area.
- 2. Students must complete one course from CHOICE 2 to fulfill the requirements for this Core area.
- З. Students may also select from any course with a CABS or CISB prefix not already used to meet degree requirements.
- 4. For graduation, a student must have earned a minimum 2.0 grade in each course with a CABS and CISB prefix.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

I	· IF	₩	₽V ÷	
CABS 126	CABS 119	CISB 102	CISB 230	
CABS 182	CABS 133	CISB 133	CISB 235	
CABS 195	CISB 114	CISB 200	CISB 236	
CISB 100	CISB 130	MATH 119	 ISCI 131 	
Lim.Ch.	Lim.Ch.	OADM 275	Lim.Ch.	
·	Lim.Ch.	Lim, Ch.		•



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MOUS MASTER CERTIFICATION PREP CERTIFICATE OF COMPLETION

Curriculum Code: 0841 (Effective Fail 2003 - Summer 2008)

This certificate will prepare students for the Microsoft Office User Specialist exam. A comprehensive Master Certification is available from Microsoft for those who wish to demonstrate the breadth of their ability by obtaining expert certifications on Word and Excel, and core certifications in PowerPoint, Access, and Outlook.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREME	NTS	114.14		TOTAL: 20 CR	EDITS
CODE	TITLE			CREDIT	HOURS
CABS 119	Microsoft Word	•		•	Э
CABS 126	Excel	· · ·			З.
CABS 129	Excel-Advanced	•			.3.
CABS 133	Microsoft Access	Database			. 3
CABS 179	Microsoft Outlook			in the second	2
CABS 182	Microsoft PowerPo	oint .			. 3.
CABS 219	Advanced Microso	oft Word		1	3 .
· ·	MINIMUM TOTAL			1 A.	20

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NOTE:

1. Students must complete these courses with a minimum grade of 2.0 to receive this certificate of completion.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

			1 A. 19	
<u> </u>		·····		
CABS 119		1		
CABS 126			 	
CABS 129	÷.,			
CABS 133				
CABS-179				
CABS 182			•	
CABS 219	· .			

PC PRODUCTIVITY APPLICATIONS CERTIFICATE OF COMPLETION

Curriculum Code: 0765 (Effective Fall 2003 - Summer 2008)

This certificate of completion is designed for students with previous experience in the Computer Information Systems field and who wish to upgrade their skills in the area of Productivity Applications.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills, assessment and advising information.

INFORMATION

Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREME	NTS	7	TO	TAL: 2	8 CF	EDITS
CODE	TITLE .			(CREOF	T HOURS
CABS 119	Microsoft Word			11.5		3
CABS 126	Excel		÷			3
CABS 129	Excel-Advanced					3
CABS 133	Microsoft Access Database		·	1		3
CABS 182	Microsoft PowerPoint					3
CABS 195	Microsoft Windows			1		. 2
CABS 219	Advanced Microsoft Word					Ş
CABS 232	Advanced Microsoft Access					2
CABS 234	Programming Microsoft Access					. 3
CISB 114	Programming Logic					3

MINIMUM TOTAL

NOTE:

- 1. A minimum 2.0 grade in each course with a CABS or CISB prefix is required
- for this certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

CABS 119 CABS 129 CABS 234	
CABS 126 CABS 182	
CABS 133 CABS 219	
CABS 195 CABS 232	
CISB 114	

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USER SUPPORT ATE OF COMPLETION

Curriculum Code: 0766 (Effective Fall 2003 - Summer 2008)

This certificate of completion is designed for students with previous experience in the Computer Information Systems field and who wish to update their skills in the area of Microcomputer Support.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

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Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREMENTS		TOTAI	.: 20 Çî	REDITS
CODE	TITLE .		CRED	IT HOURS
CABS 195	Microsoft Windows			2
CISB 100	Intro Computer Info Systems			· 3 ·
CISB 130	Data Communications	7		. 3
CISB 133	Operating Systems			З.
CISB 230	Intro to Local Area Networks			З
CISB 235	Microcomputer Hardware Support	1		3
CISB 236	Microcomputer Software Support			3
	MINIMUM TOTAL	× .		20

NOTE:

A minimum 2.0 grade in each course with a CABS or CISB prefix is required for this certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transterred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	8	¥1		
CABS 195	CISB 130	CISB 230		
CISB 100	CISB 235	CISB 236	1	. · · ·
CISB 133.	· · · ·			

WINDOWS PROGRAMMING CERTIFICATE OF COMPLETION

Curriculum Code: 0763 (Effective Fall 2003 - Summer 2008)

This certificate of completion is designed for students with previous experience in the Computer Information Systems field and who wish to update their skills for programming in the Windows environment.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREN	IENTS	TOTAL	.: 21 CRE	DITS
CODE .	TITLE ·	1	CREDIT H	IOURS
CABS 195	Microsoft Windows			2
CISB 100-	Intro Computer Info Systems		:	3
CISB 102	Internet Literacy		, ,	3
CISB 119	Intro Window Prog Visual BASIC			4
CISB 122	Adv Windows Prog Visual BASIC			3
CISB 203	Developing Pages for the Web			3
CISB 281	Visual C++ Programming		1.1	з
		л А	:	
	HOICE REQUIREMENTS		: 3-4 CRE	DITS

of credits from each CHOICE listed below

CHOICE 1:	Multimedia			3-4 Credits
CISB 253 CISB 283	WWW Interactive Programmi Intro to JAVA Programming	ng		. 4
. 000 200	The to on an a togramming	13	n na h- Na h-sh	· .
	MINIMUM TOTAL	·		24

NOTE:

1. A minimum 2.0 grade in each course with a CABS or CISB prefix is required for this certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	U	W	
CABS 195	CISB 102	CISB 203	
CISB 100	CISB 122	CISB 281	
CISB 119	State of the second	Lim.Ch.	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

CONSTRUCTION

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College

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RESIDENTIAL BUILDING ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0167 (Effective Fall 2003 - Summer 2008)

This program prepares an individual to build single family structures and multiple housing buildings such as apartments and condominiums. A residential builder must have basic math skills, understand construction methods and techniques, and know the proper use of construction materials. They must also have significant knowledge of blueprint reading, estimating, code requirements, and small business administration and management. Students will be prepared to obtain a Residential Builder's License or a Maintenance and Alteration Contractor's License. This program also assists students in preparing for the Michigan Builder's License Exam which is administered by the National Assessment Institute and the State of Michigan. This program does not lead to journeyman status.

PREREQUISITES.

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Construction and Maintenance Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

		and the second second second second second second second second second second second second second second second
REQUIREM	ENTS	TQTAL: 55 CREDITS
CODE	TITLE	CREDIT HOURS
ARCH 271	Structural Theory	. 4
ARTS 102	Design & Communication	. 3
BLDT 100	Introduction to Construction	3
BLDT 103	Structural Blueprint Reading	. 4
BLDT 121	Residential Framing	4
BLDT 124	Remodeling, Shingling/Siding	4
BLDT 126	Interior Carpentry	4
BLDT 262	Builder's Business License	. 4
BLDT 277	Construction Cost Estimating	4
BLDT 281	MI Residential & Bldg Codes	3
MATH 114	Technical Math I	. 4
MATH 115	Technical Math II	4
OADM-275	Cultural Differences in Business	3
PHYS 120	The Art of Physics	4
WRIT 124	Technical Writing	3
· ·	General Education Core Areas al Education Core Requirements for information s. Core area proficiency exams, where appro- ea.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Ar Mathematics Core Area (See Note 1)	opriate, are available for 0
	Science Core Area (See Note 1)	0
	Writing Core Area (See Note 1)	. 0
· · · · ·	Witting Obre Area (See Note 1)	
CHOICE 2:	Building/Business Related	6 Credits
ACCG 100	Practical Accounting Non-Major	3
ARCH 278	Building Science	4
ARCH 283	Materials of Construction	4
BLDT 101	Basic Woodworking	2
BLDT 285	Residential Building Intern	2
BUSN 118	Introduction to Business	. 3
CIVL 120	Surveying	4

MINIMUM TOTAL

NOTE:

1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

ŧ	El .	<u>.</u>	١V
BLDT 100	ARTS 102	BLDT 126	ARCH 271
BLDT 103	BLDT 124	BLDT 277	BLDT 262
BLDT 121	MATH 115	OADM 275	BLDT 281
MATH 114	PHYS 120	Lim.Ch.	Lim.Ch.
WRIT 124		and the second second	

RESIDENTIAL BUILDING CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0135 (Effective Fall 2003 - Summer 2008)

This certificate consists of practical hands-on courses that prepare an individual for the job market with just one year of training. This program does not lead to journey status.

REQUIREME	NTS	TOTAL: 30 CREDITS
CODE	TITLE	CREDIT HOURS
BLDT 100	Introduction to Construction	. 3
BLDT 103	Structural Blueprint Reading	4
BLDT 121	Residential Framing	4
BLDT 124	Remodeling, Shingling/Siding	. 4
BLDT 126	Interior Carpentry	4
BLDT 277	Construction Cost Estimating	4
BLDT 281	MI Residential & Bldg Codes	3
MATH 114	Technical Math I	4

MINIMUM TOTAL

SUGGESTED COURSE SEQUENCE

1 . ·	ŧ
BLDT 100	BLDT 103
BLDT 121	BLDT 124
BLDT 126	BLDT 277
MATH 114	BLDT 281

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAY'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PROR TO THE SEMESTER THEY INTEND TO GRADUATE.

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College

CREDIT UNION MANAGEMENT ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0103 (Effective Fall 2003 - Summer 2008)

A credit union manager is responsible for the smooth and efficient functioning of the organization and is responsible to the members of that credit union. Handling money and confidential information, credit union managers make decisions in accordance with policy set by the institution's board of directors and federal and state laws and regulations. Graduates of this program are prepared to work in various types and sizes of credit unions and other financial institutions.

PREREQUISITES

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Students should see Course Descriptions or Course Offerings for course prereq-Lisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone. number (517) 483-1522.

REQUIREME	NTS	TOTAL: 37 CR	EDITS
CODE	TITLE	CREDIT	FHOURS
ACCG 210	Principles of Accounting I		4
BUSN 118	Introduction to Business		З.
CUA 102	Credit Union Accounting		. 3
CUMA 100	Intro Credit Union Operations		3 -
CUMA 200	Credit and Collections		3
CUMA 215	Business Law for Credit Unions	 	3
MGMT 224	Human Resource Management		3
MGMT 225	Principles of Management		·3
MGMT 234	Diversity in the Workplace		Э.
MKTG 200	Principles of Marketing		. 3
SPCH 110	Oral Communic in the Workplace		3
WRIT 127	Business Writing		3

LIMITED CHOICE BEOUREMENTS TOTAL: 24-27 CREDITS Complete the indicated number of credits from each CHOICE listed below.

General Education Core Areas CHOICE 1: 7-9 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area (See Note 1)	Ö
÷	Global Perspectives and Diversity Core Area (See	Note 1) 0
	Mathematics Core Area	3-4
	Science Core Area	4-5
	Writing Core Area (See Note 1)	0
CHOICE 2:	Management Related (See Note 2)	13 Credits
ACCG 211	Principles of Accounting II	4
BUSN 201	International Business	3
BUSN 250	Personal Finance	3
ECON 201	Principles of Economics-Micro	. 3
ECON 202	Principles of Economics-Macro	3
INSU 265	Principles Risk and Insurance	3
LABR 200	Intro to Labor Relations	. 3
LABR 204	Employment Law for Managers	3
MGMT 150	Managing Customer Relations	. 3
MGMT 228	Organizational Behavior	. 3
MGMT. 237	Managing/Continual Improvement	3
MGMT 239	Time and Stress Management	3
MGMT 304	Organizational Development	3
MGMT 337	Human Resource Mgmt Skills	.3
MKTG 119	Mktg/Manage Your Profess Image	3
MKTG 221	Consumer Behavior	. 2
REAL 275	Real Estate Financing	. 3
CHOICE 3:	Computer Related (See Note 3)	4-5 Credits
	MINIMUM TOTAL	61

NOTES

- 1 Students completing REQUIREMENTS have fulfilled the requirements for this. Core area.
- 2. Students should confer with a Business Department program advisor to
- assure that selection of Limited Choice courses will best fit their career plans. З. Choose CABS-prefix courses of 110 or above and/or CISB-prefix courses of
- 100 or above not already used to meet degree requirements.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

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<u>I</u>		11	81	IV
BUSN 118		CUMA 200	ACCG 210	CUAI 102
CUMA 100	5	MGMT 234	CUMA 215.	MGMT 224
SPCH 110		MKTG 200	MGMT 225	Lim.Ch.
WRIT 127		Lim.Ch.	Lim.Ch.	Lim.Ch.
Lim.Ch.		Lim.Ch.	Lim.Ch.	Lim.Ch,

CREDIT UNION MANAGEMENT CERTIFICATE OF COMPLETION

Curriculum Code: 0151 (Effective Fall 2003 - Summer 2008)

Certificate holders may improve their opportunities for advancement in this or a related area. Additional education enhances an individual's employment opportunities.

	INTS	TOTAL: 18 CREDITS
CODE	TITLE	CREDIT HOURS
CUAI 102	Credit Union Accounting	. 3
CUMA 100	Intro Credit Union Operations	
CUMA 200	Credit and Collections	
CUMA 215 -	Business Law for Credit Unions	3
MGMT 224	Human Résource Management	3
MGMT, 225	Principles of Management	3
	indicated number of credits from each (CHOICE listed below.
CHOICE 1:	Communication	3 Credits
CHOICE 1: MGMT 234	Communication Diversity in the Workplace	3 Credits 3
CHOICE 1; MGMT 234 MKTG 200	Communication Diversity in the Workplace Principles of Marketing	3 Credits 3 3
CHOICE 1: MGMT 234 MKTG 200 SPCH 110	Communication Diversity in the Workplace Principles of Marketing Oral Communic in the Workplace	3 Credits 3 3 3 3
CHOICE 1: MGMT 234	Communication Diversity in the Workplace Principles of Marketing	3 Credits 3 3
CHOICE 1: MGMT 234 MKTG 200 SPCH 110	Communication Diversity in the Workplace Principles of Marketing Oral Communic in the Workplace	3 Credits 3 3 3 3

SUGGESTED COURSE SEQUENCE					
·	18 ·				
CUAI 102	CUMA 200	-			
CUMA 100	CUMA 215				
MGMT 224	MGMT 225		·		
Lim.Ch.					

Students are responsible for completing all requirements as stated. The only difficial documentation of program completion status is an audit conducted by the Registrar's Office that is initiated when students apply for a degree or certificate. Students are expected to apply one semester prior to the semester they intend to graduate.

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CORRECTIONAL OFFICER CERTIFICATE OF COMPLETION

Curriculum Code: 0840 (Effective Fail 2003 - Summer 2008)

This certificate option is designed to provide entry level skills for the person who wishes to enter the job market as a State Correctional Officer at a correctional facility. This curriculum meets the State of Michigan Corrections Officer Vocational Certificate requirements.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Public Service Careers Department, Old Central Building, Room 232, telephone number (517) 483-1570.

REQUIREMENTS		TOTA	L: 15 CREDITS
CODE	TITLE		CREDIT HOURS /
CJUS 131	Introduction to Carrections		. 3
CJUS 135	Legal Issues in Corrections		· . 3
CJUS 250	Correctional Institutions		. 3
CJUS 251	Correctional Clients		. 3
CJUS 255	Human Relations/Criminal Just		3

MINIMUM TOTAL

NOTES:

 Students must complete each of these courses with a minimum 2.0 grade to receive this certificate of completion as well as the Michigan Corrections Officer Vocational Certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	- #1	· · ·	
CJUS 131	CJUS 135		
CJUS 250	CJUS 251		
	ČJUS 255		
		· · · · · · · · · · · · · · · · · · ·	

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CRIMINAL JUSTICE, CORRECTIONS ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0170 (Effective Fall 2003 - Summer 2008)

This degree program prepares an individual for a career as a probation or parole officer, corrections officer, halfway, house administrator, jail corrections officer, or juvenile corrections professional. To fulfill réquirements for this degree, students may choose to complète either the Correctional Officer Vocational Certificate option or the Juvenile Care Worker Certificate option. The Correctional Officer students. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Public Service Careers Department, Old Central Building, Room 232, telephone number (517) 483-1570.

REQUIREME	NTS	TOTAL: 31 CREDITS
CODE	TITLE	CREDIT HOURS
CISB 100	Intro Computer Info Systems	
CJUS 101	Intro to Criminal Justice	. 3
CJUS 106	Intro.to Juvenile Justice	
CJUS 134	Probation and Parole	3
CJUS 245	Report Writing in CJ	. 2
LEGL 160	Critical Thinking in Law	
PSYC 200	Introduction to Psychology	4
SOCL 120	Introduction to Sociology	4
SPCH 110	Oral Communic in the Workplace	3
WRIT 124	Technical Writing	3
	· · · · · · · · · · · · · · · · · · ·	
	DICE REQUIREMENTS	TOTAL: 34-39 CREDITS
Complete the	indicated number of credits from each	CHOICE listed below.
CHOICE 1:	General Education Core Areas	7-9 Credits
(See General	Education Core Requirements for infor	mation on how to fulfill these
requirements.	Core area proficiency exams, where	appropriate, are available for
each core are	a.)	
	Communication Core Area (See Note	e 1) 0
	Global Perspectives and Diversity Co	ore Area (See Note 1) 0
	Mathematics Core Area	3-4
	Science Core Area	4-5
1997 - A.	Writing Core Area (See Note 1)	. 0
	an tao ang ang ang ang ang ang ang ang ang ang	
CHOICE 2: Co	prrections Specialization (Choose or	ne subchoice) 15 Credits
	Correctional Officer Vocational Ce	
CJUS 131	Introduction to Corrections	3
CJUS 135	Legal Issues in Corrections	3
CJUS 250	Correctional Institutions	
CJUS 251	Correctional Clients	· 3·
CJUS 255	Human Relations/Criminal Just	3
Subchoice 2E	: Juvenile Care Worker Certificate (Sac Nata 2)
CJUS 126	Juvenile Offenders/Their Fam	· · ·
CJUS 133	Juvenile Residential Services	3
CJUS 286	Juvenile Internship I	
CJUS 288	Juvenile Internship I	3
HUSE 100	1 .	3
1096-100	Introduction to Human Services	3
	and the second second second second second second second second second second second second second second second	

CHOICE 3:	Related Professional Courses (See Note 4)	12-15 Credits
CHDV 111	Child Guidance/Communication	4
CJUS 102	Crime Causes and Conditions	. 3
CJUS 126	Juvenile Offenders/Their Fam	
CJUS 130	Local Detention	. 3.
CJUS 204	Criminal Investigation	4
CJUS 205	Policing into the 21st Century	3
CJUS 242	Unarmed Defense	3
EDUC 204	Educational Psychology	. 3
HUSE 110	Intro/Child Abuse and Neglect	- 3
HUSE 112	Understanding/Substance Abuse	3
HUSE 120	Introduction/Family Violence	. 2
HÜSE 240	Substance Abuse: Spec Pop/Adol	- 3
PSYC 202	Psychology of Personality	3
PSYC 203	Social Psychology	3
PSYC 205	Human Growth and Development	. 3
PSYC 221	Child Psychology	3
PSYC 222	Adolescent Psychology	3
PSYC 250	Abnormal Psychology	3
SOCL 255	Contemporary Social Problems	. 3

MINIMUM TOTAL

NOTES:

- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- These five courses are certified by the Michigan Corrections Officer Training Council. Students completing these courses with a minimum 2.0 grade in each class will receive the Michigan Corrections Officer Vocational Certificate.
- Students completing the five courses in subchoice 2B and CISB 100, CJUS 106, PSYC 200, SOCL 120, and WRIT 124 with a minimum 2,0 grade in each course will receive the Juvenile Care Worker Certificate, which is endorsed by the Michigan Juvenile Detention Association.
- Students following the Correctional Officer option should select courses with a CJUS or SOCL course code. Students following the Juvenile Care Worker option should select courses with a CHDV, EDUC, HUSE, PSYC or SOCL course code.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

Subchoice 2A: Correctional Officer Vocational Certificate

· L	- H	л	IV	
CJUS 101	CJUS 106	CISB 100	CJUS 255	
CJÚS 131	CJUS 245	CJUS 134	PSYC 200	
LEGL 160	CJUS 250	 CJUS 135 	Lim.Gh.1	
SOCL 120	CJUS 251	Lim.Ch.3	Lim.Ch.1	-
WRIT 124	SPCH 110	Lim.Ch:3	Lim.Ch.3	
1. C. 1.			Lim.Ch.3	

Subchoice 2B: Juvenile Care Worker Certificate

1	lt .	1月	łV
CJUS 101	CJUS 126	CISB 100	GJUS 287
CJUS 106	CJUS 133	CJUS 134	Lim.Ch.1
LEGL 160	CJUS 245	CJUS 286	Lim.Ch.1
SOCL 120	SPCH 110	HUSE 100	Lim.Ch.3
WRIT 124	PSYC 200	Lim.Ch.3	Lim.Ch.3
	10. I.		Lim.Ch.3

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CRIMINAL JUSTICE, LAW ENFORCE Associate in Business Degree

Curriculum Code: 0257 (Effective Fail 2003 - Summer 2008)

This degree program prepares individuals for a career as a law enforcement officer. It also prepares students for possible entry into the Police Academy Program. This degree can be completed entirely online for students following Subchoice 2B. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Public Service Careers Department, Old Central Building, Room 232, telephone number (517) 483-1570.

	NTS	TOTAL: 36 CREDITS
CODE	TITLE	CREDIT HOURS
CISB 100	Intro Computer Info Systems	- 3
CJUS 101	Intro to Criminal Justice	· 3
CJUS 102	Crime Causes and Conditions	. 3
CJUS 103	Criminal Law	3
CJUS 106	Intro to Juvenile Justice	. 3
CJUS 201	Criminal Justice Org/Admin	3
CJUS 204	Criminal Investigation	4
CJUS 205	Policing into the 21st Century	Э
CJUS 245	Report Writing in CJ	2
CJUS 245	Human Relations/Criminal Just	
		3
MGMT 234	Diversity in the Workplace	3
WRIT 124	Technical Writing (See Note 1)	3
LIMITED CH	DICE REQUIREMENTS	TOTAL: 30-37 CREDITS
	indicated number of credit from each C	HOICE listed below.
CHOICE 1:	General Education Core Areas	10-12 Credits
	Education Core Requirements for Inform	
See General	. Core area proficiency exams, where a	ppropriate are available for
		phiophate, are available for
each core are		
	Communication Core Area	3
	Global Perspectives and Diversity Cor	
	Mathematics Core Area	3-4
	Science Core Area	4-5
	Writing Core Area (See Note 2)	0
CHOICE 21	law Enforcement (Choose one subc	hoice) 20-25 Credits
CHOICE 2: Subchoice 2	Law Enforcement (Choose one subc A: Mid-Michigan Police Academy Req	
	A: Mid-Michigan Police Academy Req	
Subchoice 2 CJUS 260	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures	uirements (See Note 3)
Subchoice 2 CJUS 260 CJUS 261	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure	uirements (See Note 3) 3
Subchoice 2 CJUS 260 CJUS 261 CJUS 262	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics	uirements <i>(See Note 3)</i> 3 3
Subchoice 2 GJUS 260 GJUS 261 CJUS 262 GJUS 263	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid	uirements <i>(See Note 3)</i> 3 3 3 2
Subchoice 2 GJUS 260 GJUS 261 GJUS 262 GJUS 263 GJUS 264	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce	uirements (See Note 3) 3 3 3 2 2 1
Subchoice 2 GJUS 260 CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations	uirements (See Note 3) 3 3 3 3 4 3 4 3 3 3 3 3 3
Subchoice 2 GJUS 260 CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science	uirements (See Note 3) 3 3 3 2 1 3 3 3 3 3
Subchoice 2 GJUS 260 GJUS 261 GJUS 262 GJUS 263 GJUS 264 GJUS 265 GJUS 266 GJUS 267	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing	uirements (See Note 3) 3 3 2 2 1 3 3 3 2 2 2 2 2
Subchoice 2 CJUS 260 CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 267 CJUS 268	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing Precision Driving	uirements (See Note 3) 3 3 2 2 1 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3
Subchoice 2 CJUS 260 CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 267 CJUS 268	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing	uirements (See Note 3) 3 3 2 2 1 3 3 3 2 2 2 2 2
Subchoice 2 CJUS 260 CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 267 CJUS 268 PFFT 114	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing Precision Driving	uirements (See Note 3) 3 3 2 2 1 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3
Subchoice 2 CJUS 260 CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 266 CJUS 267 CJUS 268 PFFT 114 Subchoice 2	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing Precision Driving Advanced Circuit Training 2B: Other Law Enforcement	uirements (See Note 3) 3 3 2 2 1 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3
Subchoice 2 CJUS 260 CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 266 CJUS 266 CJUS 266 PFFT 114 Subchoice 2 CJUS 130	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing Precision Driving Advanced Circuit Training B: Other Law Enforcement Local Detention	uirements (See Note 3) 3 3 2 3 1 3 3 2 3 2 3 2 2 3
Subchoice 2 CJUS 260 CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 266 CJUS 267 CJUS 268 PFFT 114 Subchoice 2 CJUS 130 CJUS 203	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing Precision Driving Advanced Circuit Training B: Other Law Enforcement Local Detention Criminal Procedure	uirements (See Note 3) 3 3 2 1 3 3 2 3 3 2 3 3 3 3 3 3 3 3 3 3
Subchoice 2 GJUS 260 CJUS 261 CJUS 262 CJUS 263 CJUS 265 CJUS 265 CJUS 266 CJUS 266 CJUS 266 CJUS 266 CJUS 267 CJUS 268 PFFT 114 Subchoice 2 CJUS 130 CJUS 203 LEGL 160	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing Precision Driving Advanced Circuit Training Precision Driving Advanced Circuit Training Precision Driving Cother Law Enforcement Local Detention Criminal Procedure Critical Thinking in Law	uirements (See Note 3) 3 3 3 2 1 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3
Subchoice 2 GJUS 260 CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 266 CJUS 266 CJUS 266 CJUS 268 PFFT 114 Subchoice 2 CJUS 130 CJUS 130 CJUS 203 LEGL 160 PSYC 200	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing Precision Driving Advanced Circuit Training 2B: Other Law Enforcement Local Detention Criminal Procedure Critical Thinking in Law Introduction to Psychology	uirements (See Note 3) 3 3 2 1 3 3 3 3 2 3 2 3 3 2 3 3 3 3 3 3
Subchoice 2 CJUS 260 CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 266 CJUS 267 CJUS 268 PFFT 114 Subchoice 2 CJUS 130 CJUS 203 LEGL 160 PSYC 200 SOCL 120	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing Precision Driving Advanced Circuit Training 2B: Other Law Enforcement Local Detention Criminal Procedure Critical Thinking in Law Introduction to Sychology Introduction to Sociology	uirements (See Note 3) 3 3 2 1 3 3 2 3 3 2 3 3 3 3 3 3 3 3 3 4 4 4 4 4
Subchoice 2 GJUS 260 CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 266 CJUS 266 CJUS 266 CJUS 268 PFFT 114 Subchoice 2 CJUS 130 CJUS 130 CJUS 203 LEGL 160 PSYC 200	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing Precision Driving Advanced Circuit Training 2B: Other Law Enforcement Local Detention Criminal Procedure Critical Thinking in Law Introduction to Psychology	uirements (See Note 3) 3 3 2 1 3 3 3 3 2 3 2 3 3 2 3 3 3 3 3 3
Subchoice 2 CJUS 260 CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 266 CJUS 267 CJUS 268 PFFT 114 Subchoice 2 CJUS 130 CJUS 203 LEGL 160 PSYC 200 SOCL 120	A: Mid-Michigan Police Academy Req Criminal Invest & Procedures Michigan Crim Law & Procedure Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing Precision Driving Advanced Circuit Training 2B: Other Law Enforcement Local Detention Criminal Procedure Critical Thinking in Law Introduction to Sychology Introduction to Sociology	uirements (See Note 3) 3 3 2 1 3 3 2 3 3 2 3 3 3 3 3 3 3 3 3 4 4 4 4 4

NOTE:

- WRIT 121-Composition I is recommended for students planning to transfer and may be substituted for WRIT 124.
- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- 3. The Police Academy is a selective admission program. Students must meet admission requirements beyond those required for admission to the college. These courses are open only to students officially admitted to the Police Academy. Students should consult with an advisor from the Public Service Careers Department regarding this option.
- This degree can be completed entirely online by students following Subchoice 2B. (Police Academy courses are not offered online.)

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

Subchoice 2A: Mid-Michigan Police Academy

4	. 🕴 .	<u>اا</u> .	- IV	
CJUS 101	CJUS 201	CISB 100	Police Academy	
CJUS 102	CJUS 204	CJUS 103		
CJUS 106	CJUS 205	CJUS 255	1	
WRIT 124	CJUS 245	MGMT 234		
Lim.Ch.1	Lim.Ch.1	Lim.Ch.1	1. Sec. 1.	

Subchoice 28: Other Law Enforcement

1	· . #	10	IV .	
CJUS 101	CJUS 106	CISB 100	CJUS 130	
CJUS 102	CJUS 201	CJUS 103	PSYC 200	
LEGL 160	CJUS 205	CJUS 255	SOCL 120	
WRIT 124	CJUS 245	MGMT 234		
	Lim.Ch.1	Lim.Ch.1		
		Lim.Ch.1	÷ 1	
		· · ·		

CJUS 203 CJUS 204 SOCL 255

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE CALLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMISTER PRIOR TO THE SEMISTER THEY INTEND TO GRADUATE.

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JUVENILE CARE WORKER CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0916 (Effective Fall 2003 - Summer 2008)

This certificate option is designed to provide entry level skills for the person who wishes to enter the job market as a juvenile care worker at a public or private juvenile residential facility. Students may apply these credits toward completion of the Criminal Justice, Corrections Associate in Business degree.

PREREQUISITES

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Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Public Service Careers Department, Old Central Building, Room 232, telephone number (517) 483-1570.

REQUIREMEN	NTS	TOTAL: 32 CRE	DITS
CODE	TITLE	CREDIT H	OURS
CISB 100	Intro Computer Info Systems		3
CJUS 106	Intro to Juvenile Justice		3
CJUS 126	Juvenile Offenders/Their Fam		3
CJUS 133	Juvenile Residential Services		з
CJUS 286	Juvenile Internship I	· · · · ·	з
CJUS 287	Juvenile Internship II	4	Э
HUSE 100	Introduction to Human Services		3
PSYC 200	Introduction to Psychology		4
SOCL 120	Introduction to Sociology	1997 - A. 1997 -	4
WRIT 124	Technical Writing	· · ·	з
	MINIMUM TOTAL		32

NOTE:

 Students must complete each of these courses with a minimum 2.0 grade to receive this certificate which is endorsed by the Michigan Juvenile Detention Association.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

L	l			
CISB 100	CJUS 133	· · · .		
CJUS 106	CJUS 287			
CJUS 126	HUSE 100			
CJUS 286	SOCL 120			
PSYC 200	WRIT 124			
	1 (1) (4)			

MID-MICHIGAN POLICE ACADEMY

Curriculum Code: 0737 (Effective Fall 2003 - Summer 2004)

The Mid-Michigan Police Academy at Lansing Community College is a 15-week basic police training program designed to meet or exceed state mandated certification requirements set by the Michigan Commission on Law Enforcement Standards (MCOLES) for preparing individuals for a career in law enforcement. Within the 15 weeks, more than 650 hours are utilized to provide training in 70 different topic areas. The curriculum includes topics such as criminal law and procedure, investigations, patrol procedures, human relations, conflict mediation, firearms, precision driving, use of lethal and non-lethal force, defensive tactics, report writing, traffic enforcement, victimization, and crime prevention. The emphasis in this academy is placed upon practical and hands-on training techniques. All courses for this program must be completed in a single semester.

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. All of the courses for this program are open only to students officially admitted to the Police Academy Program.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

The admission and/or program requirements for this program may change each academic year. For the most recent and complete information about admission requirements, contact the Police Academy Coordinator, William Martin, in the Police Academy Office, Old Central Building, Room 232, telephone number (517) 483-5248, or contact the LCC Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREMENTS FOR ADMISSION TO THE MID-MICHIGAN POLICY ACADEMY PROGRAM

For current information about admission requirements, contact the Police Academy Coordinator, William Martin, in the Police Academy Office, Old Central Building, Room 232, telephone number (517) 483-5248, or contact the LCC Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREMENTS			TOTAL	.: 25 CREI	DITS
CODE	TITLE			CREDIT H	OURS
CJUS 260	Criminal Invest & Procedures				3
CJUS 261	Michigan Crim Law & Procedure				. 3
CJUS 262	Patrol Procedures and Tactics		1.4	· · ·	3
CJUS 263	Standard First Aid				2
CJUS 264	Rprt Writing in Law Enforce				.1
CJUS 265	Highway Traffic Operations	1.1			3
CJUS 266	Basic Police Science	•		<i>.</i>	3
CJUS 267	Law Enforcement Phys Traing				2
CJUS 268	Precision Driving				з
PFFT 114	Advanced Circuit Training				2
			÷ .		

25

MINIMUM TOTAL

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS BUILDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER THEY INTEND TO GRADUATE.

LANSING COMMUNITY COLLEGE CATALOG 2003-2005 # 107

TEACHER PARAPROFESSIONAL ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 1039 (Effective Fall 2003 - Summer 2008)

Teacher Paraprofessionals work under the direction of a classroom teacher in settings ranging from early childhood through elementary, middle school and high school. This program meets federal requirements for teacher parapros. Students may select from three specialties: Early Childhood, Elementary or Special Education.

Some of the duties of the teacher parapro include working with small groups of children on their reading, math and writing development, collecting and recording data on student performance, using technology for instructional purposes, and carrying out the instructional objectives of the classroom teacher. In addition, the teacher parapro must be able to communicate effectively with parents, students and teachers, implement behavior management techniques, and recognize a range of special needs.

The Early Childhood specialty focuses on children 0-5 years while the Elementary specialty focuses on ages 6-12 years, and the Special Education specialty includes working with those with disabilities 3 years through young adult. This program can also be a first step toward teacher certification. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or courselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

MUSC 200

Contact the Liberal Studies Office of Instruction, Arts and Sciences Building, Room 111, telephone number (517) 483-1015.

REQUIREMEN	NTS	TOTAL: 17	CREDITS	
CODE	TITLE	CRE	DIT HOURS	
CHDV 186	Child Self-Esteem/Positive Discipline	 •	: 1	
EDUC 204	Educational Psychology		3	
EDUC 220	Introduction to Education		3	
EDUC 226	Reading in Elementary School	2 A	Э	
EDUC 230	Introduction to Special Education		- 3	
ENGL 208	Children's Literature		4	
	and the second second second second second second second second second second second second second second second			

LIMITED CHOICE REQUIREMENTS (See Note 1) TOTAL: 43 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 12-15 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proticiency exams, where appropriate, are available foreach core area.)

	Communication Core Area	. З
	Global Perspectives and Diversity Core Area	3-4
	Mathematics Core Area (See Note 2)	3-4
	Science Core Area (See Note 3)	. 0
	Writing Core Area	.3-4
CHOICE 2:	Specialization (Choose one subchoice) 16-18	Credits
Subchoice 2/	A: Early Childhood	
CHDV 101	Child Growth/Development: 0-5 years	· 4
CHDV 111	Child Guidance/Communication	_ 4
CHDV 220	Preschool Curriculum/Learning Environment (See Note 4) 4
ISCI 121	Integrated Science for Education 1	4
Subchoice 2	B: Elementary Education	
ARTS 240	Art for Elementary Teachers	. 3
EDUC 201	Teacher Education Practicum	2
GEOG 200	World Regional Geography	. 4
ISCI 121	Integrated Science for Education	4
	integrated opening in Eastation i	

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Credits

		ALC: NO	
Subchoice 20	: Special Education	and the second	
BIOL 145	Introductory Anat & Physiology		5
CHDV_188	Caring/Children/Special Needs		
EDUC 201	Teacher Education Practicum		
PFKN 260	Growth and Motor Behavior		
PSYC 200	Introduction to Psychology		
SIGN 160	Orientation to Deafness		1990 - Mari
5		· · ·	
CHOICE 3:	Elective Courses	1	15-18
6	Law and the following	list /Coo Mata	5

Select from other subchoices and the following list. (See Note 5)

BIOL 229	Nature Study for Educators	1.1
CHDV 123	Curriculum: Early Literacy	
CHDV 124	Curriculum: Early Math Development	
CHDV 181	Adult Communication/Child Care	
CHDV 184	Children and Stress	
CPSC 120	Introduction to Computers	
EMSA 100	First Aid and CPR	
ENGL 122	Writing: Literature and Ideas	
HIST 211	U.S. History to 1877	
HIST 212	U.S. History 1877 to Present	· 41
HUMS 215	American Civilization	
HUMS 225	Great Lakes Native American: Hist & Trad	
HUSE 110	Intro/Child Abuse and Neglect	4 1.1
ISCI 122	Integrated Science for Education II	
MATH 201	Math for Elementary Teachers I	÷.,
MATH 202	Math for Elementary Teachers II	
: PFHW 163	Healthy Lifestyles	
POLS 120	American Political System	
PSYC 205	Human Growth and Development	
PSYC 221	Child Psychology	1.1.1
SIGN 161	American Sign Language I	
SOCL-120	Introduction to Sociology	
SPAN 121	Elementary Spanish I	
WRIT 122	Composition II	

MINIMUM TOTAL

NOTES:

- Students intending to transfer to a four-year institution should select courses that satisfy the MACRO Transfer Agreement (See Transfer Information). Students should also consult Transfer Guides for specific four-year institutions (available from advisors).
- MATH 201 is recommended. An alternative recommendation for non-transfer students is MATH 118 or MATH 119.
- Students completing Specialization requirements in CHOICE 2 have fulfilled the requirements for this Core area.
- Students wishing to work with children under three years of age may substitute CHDV 221; students wishing to work in before and after school programs may substitute CHDV 112 and CHDV 222.
- A maximum of six elective credits may be selected, if needed, from MATH 107, READ 116, SDEV 124, SDEV 135 or WRIT 117.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	ŧ.	. III.	١V	•
EDUC 204	CHDV 186	ENGL 208	Lim.Ch.	
EDUC 220	EDUC 226	Lim.Ch.	Lim.Gh.	
Lim,Ch.'	EDUC 230	Lim.Ch.	Lim.Ch.	
Lim.Ch.	Lim.Ch.	Lim.Ch.	Lim.Ch.	
Lim.Ch.	Lim.Ch.	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		· ·

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE DNLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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Music Fund for Elementary Teachers

TEACHER PARAPROFESSIONAL CERTIFICATE OF COMPLETION

Curriculum Code: 0829 (Effective Fall 2003 - Summer 2008)

The certificate offers a foundation in educational concepts and a practical introduction to classroom management and content-area instruction. It is intended for students who may have already met federal requirements for teacher paraprofessionals by completing 60 college credits or an associate degree in a field other, than education. It is also recommended as preparation for students who plan to take the state-approved exam for paraprofessionals. Courses in this certificate may also be applied toward an associate degree or transfer program leading to teacher certification.

PREREQUISITES

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Credits

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Social Science Department, Room 353, Arts and Sciences Building, telephone number, 483-1126 or Liberal Studies Office of Instruction, Room 111, Arts and Sciences Building, telephone number, 483-1015.

REQUIREME	NTS	TO	TAL: 10 CREDITS
000E	TITLE		CREDIT HOURS
CHDV 186	Child Self-Esteem/Pos Discipl		· 1
- EDUC 220	Introduction to Education		· · 3
EDUC 226	Reading in Elementary School	· •	
EDUC 230	Intro to Special Education		3
LIMITED CHI	DICE REQUIREMENTS	ΤΟΤΑ	L: 9-12 CREDITS
Complete the	indicated number of credits.		
ARTS 240	Art for Elementary Teachers	e La la	Э
BIOL 229	Nature Study for Educators		4
EDUC 201	Teacher Education Practicum		. 2
EDUC 204	Educational Psychology	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	. 3
ENGL 208	Children's Literature		4
GEOG 200	World Regional Geography		4
ISCI 121	Integrated Sci for Education I	· · ·	
MATH 201	Math for Elemen Teachers I		4
MATH 202	Math for Elemen Teachers II		4
MUSC 200	Music Fund for Elemen Teachers		3
	MINIMUM TOTAL		. 19

SUGGESTED COURSE SEQUENCE

The certificate program can be completed in two semesters. Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an advisor or counselor for help with adjustments.

1	H ·			
CHDV 186	EDUC 230			
EDUC 220	Lim. Ch.			
EDUC 226	 Lim. Ch.			1
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STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER THEY INTEND TO THE SEMESTER THEY INTEND TO GRADUATE.

EDUCATION

ELECTRICAL

2003-2005 Catalog Lansing Community College

ELECTRICAL TECH. CONSTRUCTION CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0759 (Effective Fall 2003 - Summer 2008)

This certificate is designed to provide students with a background in applied electrical theory and the basic mechanical skills necessary to the practicing construction electrician.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Construction and Maintenance Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREME	INTS	TOTAL	.: 41 CREDITS
CODE	TITLE		CREDIT HOURS
BLDT 103	Structural Blueprint Reading		4
ELTE 100	Electrical Safety Practices		1
ELTE 110	Practical Electricity		3.
ELTE 111	Intro Industrial Automation		4
ELTE 112	Basic Wiring Installation	. F	2
ELTE 121	Analyzing Electric Circuits	and the second second	5
ELTE 123	Motors and Transformers	,	5
ELTE 131	Intro to Machine Control		. 4
ELTE 141	National Electrical Code I		4
ELTE 145	Electrical Prints for Building		4
ELTE 150	Electric Motor Maintenance		2
ELTE 240	Electrical Estimating		. 3
	MINIMUM TOTAL		41

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	11 S. S. S. S. S. S. S. S. S. S. S. S. S.	钳	IV
BLDT 103	ELTE 112	ELTE 123	ELTE 150
ELTE 100	ELTE 121	ELTE 145	ELTE 240
ELTE 110	ELTE 131		
ELTE 111	ELTE 141		

ELECTRICAL TECH, CONTROL/MAINT CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0760 (Effective Fall 2003 - Summer 2008)

This certificate is designed to provide students with a background in applied electrical theory and the basic mechanical skills necessary to the practicing electrician in the machine control field.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Construction and Maintenance Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREME	NTS	r	TOTAL:	41 CREE	NTS
CODE	TITUE			CREDIT HO	DURS
ELTE 100	Electrical Safety Practices			<i>1</i> .	1
ELTE 110	Practical Electricity		· .		. 3
ELTE 111	Intro Industrial Automation		1	1	4
ELTE 112	Basic Wiring Installation				2
ELTE 121	Analyzing Electric Circuits				5
ELTE 122	Industrial Control Electronics				5
ELTE 123	Motors and Transformers				5
ELTE 131	Intro to Machine Control		1997 - 19		4
ELTE 150	Electric Motor Maintenance			•	2
ELTE 260	Intro/Programmable Controllers				4
ELTE 261	Allen-Bradley PLC-5 Advanced	.*	х.,		6
1	MINIMUM TOTAL		1 - 1 1	1	41

MINIMUM TOTAL

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	i l .	161	IV .	
ELTE 100	ELTE 112	ELTE 123	ELTE 122	
ELTE 110	ELTE 121	ELTE 260	ELTE 261	
ELTE 111	ELTE 131			
	ELTE 150 -	1. A.		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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ELECTRICAL TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0134 (Effective Fall 2003 - Summer 2008)

Students in this program may select either the construction specialty or the machine control and maintenance specialty. Construction electricians install electrical wiring and systems in homes, offices, stores or industrial plants. Machine control designers are responsible for designing control circuits which operate machinery in plants. Maintenance electricians work in industry maintaining and troubleshooting power and control circuits on machinery. Both specialties require mechanical aptitude, logical thinking and problem-solving skills. Employment opportunities vary with each specialty.

PREREQUISITES

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Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information, See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Construction and Maintenance Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

EOUIREME		TOTAL: 38 CREDIT:
ODE	TITLE	CREOIT HOUR
LTE 100	Electrical Safety Practices	
LTE 110	Practical Electricity	-
LTE 111	Intro Industrial Automation	
LTE 112	Basic Wiring Installation	
LTE 121	Analyzing Electric Circuits	
LTE 123	Motors and Transformers	
LTE 131	Intro to Machine Control	
LTE 141	National Electrical Code I	
LTE 145	Electrical Prints for Building	· · · · ·
LTE 150	Electric Motor Maintenance	
LTE 260	Intro/Programmable Controllers	
	NCE REQUIREMENTS	TOTAL: 34-35 CREDIT: CHOICE listed below.
	General Education Core Areas Education Core Requirements for info Core area proficiency exams, where	
ach core are	a.)	
	Communication Core Area	
	Global Perspectives and Diversity Co	
	Mathematics Core Area	3-
	Science Core Area	4-
	Writing Core Area	Э-
HOICE 2:	Electrical Specialization (Choose or	ne subchoice) 18-19 Credit
ubchoice 24	: Construction Specialization	
LDT 103	Structural Blueprint Reading	
LDT 121	Residential Framing	
LTE 142	National Electrical Code II	
LTE 143	National Electrical Code III	
LTE 240	Electrical Estimating	
ubchoice 25	8: Machine Control and Maintenance	Specialization
LTE 122	Industrial Control Electronics	s opecialization
LTE 232	Industrial Control Design	
LTE:261	Allen-Bradley PLC-5 Advanced	
FGM 101	Industrial Hydraulics (See Note 1)	
ICAME 101	Industrial Hydraulics (See Note 1)	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -
	MINIMUM TOTAL	7:
OTE:		
	nay elect to take a 3 credit course,	MFGM 102 Industrial Pneu

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

Subchoice 2A: Construction Specialty

۱.	· • • •	, ⁻)81	١٧	
ELTE 100	ELTE 112	ELTE 123	Lim.Ch.	
ELTE 110	ELTE 121	ELTE 145	Lim.Ch.	
ELTE 111	ELTE 131	ELTÉ 260	Lim.Ch.	
Lim.Ch.	ELTE 141	Lim.Ch.	Lim.Ch.	
Lim.Ch.	ELTE 150	Lim.Ch.	Lim.Ch.	
Lim.Ch.		· ·		

Subchoice 2B: Control and Maintenance Specialty

}	ļį	111	<u> </u>
ELTE 100	ELTE 112	ELTE 123	Lim.Ch.
ELTE 110	ELTE 121	ELTE 145	Lim.Ch.
ELTE 111	ELTE 131	ELTE 260	Lim.Ch.
Lim.Ch.	ELTE 141	Lim.Ch.	Lim.Ch.
Lim.Ch.	ELTE 150	Lim.Ch.	Lim.Ch.

MACHINE CONTROL CERTIFICATE OF COMPLETION

Curriculum Code: 0966 (Effective Fall 2003 - Summer 2008)

This certificate is designed to provide students with entry level skills in the understanding of basic electrical theory, basic electrical operating characteristics of industrial machinery, and basic operation of programmable logic controllers. This curriculum would be an excellent choice for students wishing to enter an industrial electrical apprenticeship or for students in other industrial trades who wish to have a basic understanding of electrical control of industrial machines. All of the course work may be applied toward the Electrical Technology, Associate in Applied Science Degree.

REOUIREMENTS			TOTAL: 22 CREDITS			
CODE	TITLE		CRE	DIT HOURS		
ELTE 100	Electrical Safety Practices			1		
ELTE 110	Practical Electricity			3		
ELTE 131	Intro to Machine Control			4		
ELTE 232	Industrial Control Design			4		
ELTE 260	Intro/Programmable Controllers			4		
ELTE 261	Allen-Bradley PLC-5 Advanced			6		
· .			· · ·	22		
SUGGESTED COURSE SEQUENCE						

I	1 II	H	· IV	
ELTE 100	ELTE 131	ELTE	260 EL1	E 232
ELTE 110			ELT	E 261

STUDENTS APE RESPONSIBLE FOR COMPLETING ALL REQURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAP'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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Curriculum Code: 0964 (Effective Fall 2003 - Summer 2008)

This certificate is designed to provide students with entry level skills in basic electrical theory, fundamental wiring installation techniques, and an understanding of the National Electrical Code. This curriculum would be an excellent choice for students wishing to apply for a construction electrical apprenticeship. All of the course work may be applied toward the Electrical Technology, Associate in Applied Science Degree.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Construction and Maintenance Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REOUIREME	NTS	TOTAL: 18 CREDITS		
CODE	TITLE		CREDIT HOURS	
ELTE 100	Electrical Safety Practices		1	
ELTE 110	Practical Electricity		. 3	
ELTE 112	Basic Wiring Installation		2	
ELTE 141	National Electrical Code I		4	
ELTE 142	National Electrical Code II		. 4	
ELTE 145	Electrical Prints for Building	• •.	. 4	
	MINIMUM TOTAL		18	

MINIMUM TOTAL

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students wishing to complete this certificate in less than four semesters, or students who for any reason are unable to follow the course sequence suggested below, should contact a program advisor for help with adjustments.

1	<u> </u>	H	
ELTE 1.00	ELTE 112	ELTE 142	
ELTE 110	ELTE 141	ELTE 145	

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College

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USTOMER ENERGY SPECIALIST ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 1022 (Effective Fall 2003 - Summer 2008)

This curriculum is designed to give students the technical knowledge and customer relations skills to determine customer energy needs in the negotiation, design, installation, and application of utility facilities. They negotiate barriers in order to supply energy from the road or nearest energy supply center to the outside of a building under construction. Customer energy specialists are employed by utility companies, governmental agencies, heating and cooling contractors, the construction industry, and engineering and architectural firms. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Manufacturing and Land Technologies Department, Gannon Vocational Technical Center, Room 1338, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 62 C	REDITS
. CODE	THELE	CREL	DIT HOURS
ACCG 101	Accounting Into for Management	1. j.	3
BUSN 118	Introduction to Business		ą
CISB 100	Intro Computer Info Systems	,	З
FLCT 100	Schematic Drawing		1
ELTE 100	Electrical Safety Practices	· · ·	1
ELTE 110	Practical Electricity	10 C	. 3
ELTE 121	Analyzing Electric Circuits		5
ELTE 141	National Electrical Code I		· 4
GRET 203	Beginning MicroStation		3
	Advanced MicroStation		3 .
LAND 282	Computer Draft/Dsgn Land Arch		з.
1 FGL 215	Busn Law I, Basic Principles		3
MATH 114	Technical Math		4
MATH 115	Technical Math II		4
MGMT 150	Managing Customer Relations		3
MGMT 234	Diversity in the Workplace		3
MKTG 200	Principles of Marketing		3
PHYS 120	The Art of Physics		4
SPCH 110	Oral Communic in the Workplace		3
WHIT 124	Technical Writing		3
	- -		

TOTAL: 0 CREDITS LIMITED CHOICE REQUIREMENTS Complete the indicated number of credits from each CHOICE listed below.

General Education Core Areas 0 Credits CHOICE 1: (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

•	MINIMUM TOTAL	62
	Writing Core Area (See Note 1)	. 0
	Science Core Area (See Note 1)	0
	Mathematics Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area (See Note 1)	0
	Communication Core Area (See Note 1)	۰D

NOTES:

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Students completing REQUIREMENTS have fulfilled the requirements for this Core area

Students should see course descriptions to find out when departments plan to ofier courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1 .	u .	ш , , , , , , , , , , , , , , , , , , ,	IV
BUSN 118	ELCT 100	ELTE 121	ACCG 101
CISB 100	ELTE 110	GRET 213	ELTE 141
ELTE 100	GRET 203	MGMT 234	LEGL 215
LAND 282	MATH 115	MKTG 200	MGMT 150
MATH 114	WRIT 124	PHYS 120	SPCH 110

CUSTOMER ENERGY SPECIALIS GERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0893 (Effective Fall 2003 - Summer 2008)

This certificate curriculum provides entry-level technical knowledge and customer relations skills to determine customer energy needs in the negotiation, design, installation, and application of utility facilities. Course work will apply toward completion of the Customer Energy Specialist Associate Degree.

REQUIREMENTS			TOTAL: 42 CREDITS		
CODE	TITLE		1	CREDIT HOURS	
ACCG 101	Accounting Info for Management			3	
BUSN 118	Introduction to Business			3	
CISE 100	Intro Computer Info Systems		1.00	3	
FLCT 100	Schematic Drawing			1	
ELTE 100	Electrical Safety Practices			. 1	
ELTE 110	Practical Electricity		1	3	
ELTE 121	Analyzing Electric Circuits			5	
GRET 203	Beginning MicroStation	• •		3	
LAND 282	Computer Draft/Dsgn Land Arch			3	
MATH 114	Technical Math I			4	
MKTG 200	Principles of Marketing				
PHYS 120	The Art of Physics			4	
SPCH 110	Oral Communic in the Workplace			• 3	
WRIT 124	Technical Writing			. 3	
	MINIMUM TOTAL	· .	÷	42	

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

		and the second second second second second second second second second second second second second second second	
1	n .	18	
BUSN 118 CISB 100 ELTE 100 MATH 114 WBIT 124	ACCG 101 ELCT 100 ELTE 110 LAND 282 SPCH 110	ELTE 121 GRET 203 MKTG 200 PHYS 120	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAP'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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FASHION DESIGN TECHNOLOGY CERTIFICATE OF COMPLETION

Curriculum Code: 1056 (Effective Fall 2003 - Summer 2008)

This program prepares individuals to apply artistic principles and techniques to the merchandising of commercial fashions, apparel, and accessories, and the management of fashion development projects. Instruction includes apparel design; accessories design; the design of men's, women's, and children's wear; computer assisted design and manufacturing; concept planning; designing specific materials; labor cost and analysis; fabric art and printing; and the principles of management and operations in the fashion industry.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Construction and Maintenance Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREMEN	NTS	TOTAL: 12 CREDITS
CODE	TITLE	CREDIT HOURS
FASH 120	Fashion Industry	3
FASH 150	Apparel and Textile Design	3
INTR 110	Applied Design/Color Theory	. 3
INTR 185	Introduction to Textiles	3
LIMITED CHO		TOTAL: 16-18 CREDITS
Complete the	indicated number of credits from each	CHOICE listed below.
CHOICE 1:	Business Related	8-9 Credits
BUSN 201	International Business	3
MKTG 119	Mktg/Manage Your Profess Image	· 3
MKTG 131	Merchandising	. 2
MKTG 200	Principles of Marketing	3
MKTG 210	Marketing on the Internet	. 3
CHOICE 2:	Discipline Related History	3 Credits
INTR 230	World Decorative Arts	3
INTR 231	Period Interiors	3
INTR 232	Twentieth Century Interiors	3
CHOICE 3:	Delineation	3 Credits
ARCH 100	Intro to Architecture Drawing	3
ARTS 131	Drawing I	. 3
CADD 100	Basic Mechanical Drafting	3
CHOICE 4:	Business Computer Applications	2-3 Credits
CABS 103	Internet Basics for Non-Majors	2
CABS 110	Intro to Microsoft Office	3
CABS 126	Excel	3
CABS 205	Using Project Mgmt Software	2 .
	MINIMUM TOTAL	28

NOTE:

1. Students are advised to confer with program faculty to assure selection of Limited Choice courses will best fit their career plans.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	ti '		 ~~~~		
FASH 120	FASH 150				
INTR 110	INTR 185	· .			
Lim.Ch.1	Lim.Ch.1				
Lim.Ch.3	Lim.Ch.1				
Lim.Ch.4	Lim.Ch.2				

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL RECURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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Curriculum Code: 0709 (Effective Fall 2003 - Summer 2004)

The Regional Fire Training Center provides the Fire Academy Certificate Program to prepare individuals in basic fire training and fitness. Successful completion leads to certification by the Michigan Fire Fighter Training Council for Fire Fighter 1 and II. Hazardous Materials Awareness, and Hazardous Materials Operations.

The Fire Science Academy is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. Many of the courses for this program are open only to students officially admitted to the Fire Science Academy Program.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION.

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2003/2004 academic year. For the most recent and complete information, interested students should contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREMENTS FOR ADMISSION TO THE FIRE SCIENCE ACADEMY PROGRAM For current information about admission requirements, students must contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREME	NTS	TOTAL: 18 CREDITS		
CODE	TITLE		CREDIT HOURS	
FIRE 101	MI F.F.T.C. Basic Fire Lev I		9	
FIRE 102	MI F.F.T.C. Basic Fire Lev II		. 7	
PFFT 114	Advanced Circuit Training		2	

MINIMUM TOTAL

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

FIRE 101 FIRE 102 PFFT 114

ED WHEN

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE, STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

FIRE SCIENCE

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FASHION DESIGN

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FASHION DESIGN TECHNOLOGY CERTIFICATE OF COMPLETION

Curriculum Code: 1056 (Effective Fall 2003 - Summer 2008)

This program prepares individuals to apply artistic principles and techniques to the merchandising of commercial fashions, apparel, and accessories, and the management of fashion development projects. Instruction includes apparel design; accessories design; the design of men's, women's, and children's wear; computer assisted design and manufacturing; concept planning; designing specific materials; labor cost and analysis; fabric art and printing; and the principles of management and operations in the fashion industry.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Construction and Maintenance Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REOUIREMEI	NTS	TOTAL: 12 CREDITS
CODE	TITLE	CREDIT HOURS
FASH 120	Fashion Industry	3
FASH 150	Apparel and Textile Design	3
INTR 110	Applied Design/Color Theory	3
INTR 185	Introduction to Textiles	3
LIMITED CHO	DICE REQUIREMENTS	TOTAL: 16-18 CREDITS
Complete the	indicated number of credits from each C	HOICE listed below.
CHOICE 1:	Business Related	8-9 Credits
BUSN 201	International Business	3
MKTG 119	Mktg/Manage Your Profess Image	3
MKTG 131	Merchandising	2
MKTG 200	Principles of Marketing	3
MKTG 210	Marketing on the Internet	3
CHOICE 2:	Discipline Related History	3 Credits
INTR 230	World Decorative Arts	3
INTR 231	Period Interiors	з
INTR 232	Twentieth Century Interiors	` <u>`</u> 3
CHOICE 3:	Delineation	3 Credits
ARCH 100	Intro to Architecture Drawing	. 3
ARTS 131	Drawing I	3 '
CADD 1.00	Basic Mechanical Drafting	3
CHOICE 4:	Business Computer Applications	2-3 Credits
CABS 103	Internet Basics for Non-Majors	2
CABS 110	Intro to Microsoft Office	3.
CABS 126	Excel	3
CABS 205	Using Project Mgmt Software	2
	MINIMUM TOTAL	28

NOTE:

 Students are advised to confer with program faculty to assure selection of Limited Choice courses will best fit their career plans.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	11	
FASH 120	FASH 150	
INTR 110	INTR 185	
Lim.Ch.1	Lim.Ch.1	
Lim.Ch.3	Lim.Ch.1	
Lim.Ch.4	Lim.Ch.2	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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FIRE SCIENCE ACADEMY CERTIFICATE OF COMPLETION

Curriculum Code: 0709 (Effective Fall 2003 - Summer 2004)

The Regional Fire Training Center provides the Fire Academy Certificate Program to prepare individuals in basic fire training and fitness. Successful completion leads to certification by the Michigan Fire Fighter Training Council for Fire Fighter I and II, Hazardous Materials Awareness, and Hazardous Materials Operations.

The Fire Science Academy is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. Many of the courses for this program are open only to students officially admitted to the Fire Science Academy Program.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION ...

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2003/2004 academic year. For the most recent and complete information, interasted students should contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREMENTS FOR ADMISSION TO THE FIRE SCIENCE ACADEMY PROGRAM For current information about admission requirements, students must contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREM	ENTS	TOTAL: 18 CF	18 CREDITS	
CODE	TITLE · · ·	CREDI	T HOURS	
FIRE 101	MI F.F.T.C. Basic Fire Lev I		9	
FIRE 102	MI F.F.T.C. Basic Fire Lev II		7	
PFFT 114	Advanced Circuit Training		2	
	MINIMUM TOTAL		18	

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

FIRE 101 FIRE 102 PEET 114

STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN

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Curriculum Code: 0123 (Effective Fall 2003 - Summer 2008)

This degree program provides students with three options to pursue a fire service career area. The first option, or subchoice, provides an individual with the flexibility to continue their educational process to a four-year fire science program. The National Fire Academy's intent is to align all two-year degree granting fire science programs with institutions that provide a four-year fire science degree. The second option follows a general fire service career path and meets the state standards of the Michigan Fire Fighter Training Council's Fire Fighter 1 and II certification process. This option consists of selective admissions to the Regional Fire Training Center at Lansing Community College. The third option enhances the promotional opportunities for the veteran fire service employee. Courses provide a versatile approach to fire service management. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREOUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Public Service Careers Department, Old Central Building, Room 232, telephone number (517) 483-1570.

REQUIREMENTS			TOTAL: 36 CREDITS		
3000	TITLÉ		CREDIT HOURS		
CHEM 135	Chemistry in Society		-4		
FIRE 100	Prin of Emergency Services		3		
FIRE 104	Fire Behavior and Combustion		3		
FIRE 105	Fire/Hydraulics/Water Supply	1.14	. 4		
FIRE 110	Fire Prevention		3		
FIBE 112	Occ Safety & Hith for Fire Svc		4		
FIRE 115	Bldg Construction/Fire Protect		. 4		
FIRE 125	Fire Protection Systems		. 4		
FIRE 150	Strategy and Tactics		4		
WRIT 124	Technical Writing		3		

LIMITED CHOICE REQUIREMENTS TOTAL: 29-35 CREDITS Complete the indicated number of credits from each CHOICE listed below.

	General Education Core Areas Education Core Requirements for information on ho Core area proficiency exams, where appropriate,	
each core allo	3	
	Communication Core Area Global Perspectives and Diversity Core Area	3-4
	Mathematics Core Area	3-4
,	Science Core Area (See Note 1)	0 -
	Writing Core Area (See Note 1)	. 0
CHOICE 2:	Computer Related	2-3 Credits
CABS 103	Internet Basics for Non-Majors	. 2
CABS 110	Intro to Microsoft Office	3
CISB 100	Intro Computer Info Systems	. 3
CHOICE 3: Subchoice 34	Fire Specialty (Choose one subchoice)	18-21 Credits
FIRE 122	Hazardous Materials Chemistry	4
FIRE 210	Fire Investigation I	4
FIRE 215	Fire Investigation II	3
FIRE 250	Fire Administration 1	4
FIRE 260	Legal Aspects/Fire Service	• 4
PFFT 115	Emergency Services Fitness I (See Note 2)	1
PFFT 116	Emergency Services Fitness II (See Note 2)	- 1

ubchoice	3B: Fire Fighter (See Note 3)		
IRE 101	MLE.F.T.C. Basic Fire Lev 1	 1	
IRE 102	MI F.F.T.C. Basic Fire Lev II	100	
FFT 114	Advanced Circuit Training		

Subchoice 3C: Fire Service Management

20200101000 0	er i ne del ne management	
FIRE 220	Hazardous Materials/Fire Ser	
FIRE 245	Fire Officer I & II	
FIRE 250	Fire Administration	
FIRE 255	Fire Officer III & IV	
PFFT 115	Emergency Services Fitness # (See Note 2)	
PFFT 116	Emergency Services Fitness II (See Note 2)	

MINIMUM TOTAL

NOTES:

- Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area.
- 2. PEFT 117 and/or PEFT 118 may be substituted.
- 3. This option includes the Fire Academy which is a selective admission program. Students must meet admission requirements beyond those required for admission to the college. Students with Michigan Fire Fighter-I, or I and II certification may be eligible to waive FIRE 101 and/or FIRE 102. Students should consult with a Fire Science program advisor regarding this segment of the program.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

Subchoice 3A: National Fire Academy Curriculum

	4	11	18	IV ·	
	FIRE 100	CHEM 135	FIRE 105	FIRE 122	
÷	FIRE 104	FIRE 150	FIRE 112	FIRE 125	
	FIRE 110	FIRE 210	FIRE 215	FIRE 250	
	FIRE 115	WRIT 124	FIRE 260	Lim.Ch.1	
	PFFT 115	Lim.Ch,1	PFFT 116	Lim.Ch.2	
	Lim.Ch.1				

Subchoice 3B: Fire Fighter

1	1	刻	IV .
FIRE 101	FIRE 100	FIRE 105	CHEM 135
FIRE 102	FIRE 104	FIRE 110	FIRE 112
PFFT 114	WRIT 124	FIRE 115	FIRE 125
	Lim,Ch.1	Lim.Ch.1	FIRE 150
	Lim.Ch.1	Lim.Ch.2	

Subchoice 3C: Fire Service Management

}		利 ()	81	IV	1
FIRE	100	CHEM 135	FIRE 105	FIRE 125	
EIRE	104	FIRE 112	FIRE 245	FIRE 220	
FIRE	110	FIRE 150	FIRE 250	FIRE 255	
FIRE	115	PFFT 115	Lim.Ch.1	PEET 116	
Lim.C	Ch.1	WRIT 124	Lim.Ch.2	Lim.Ch.1	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTINAT'S OFFICE THAT IS INITIATED WHI STUDENTS ARE Y FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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GIS/GEOSPACIAL TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0224 (Effective Fall 2003 - Summer 2008)

Geographic Information Systems and Geospacial Technology combines computer technology, mapping technologies, aerial photography, and satellite imagery with the most current environmental resource management and environmental analysis software. Geographic Information Systems (GIS) technicians work with computer drafting, design, database management, graphic design, and computer analysis. Environmental technology requirements include a working knowledge of natural systems and related regulations and their assessment, planning, restoration, and management. GIS technicians are employed with engineering and design firms, state and federal agencies, environmental firms, parks and recreation departments, and with municipalities and local government units. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or courselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Manufacuting and Land Technologies Department, Gannon Vocational-Technical Center, Room 1360, telephone number (517) 483-1336.

REQUIREMENTS

TITLE

CODE

TOTAL: 49 CREDITS CREDIT HOURS

	COULE	FTLE	CHEDIT HOORS	2
	GEOL 230	Environmental Geology	4	
	GRET 205	Principles Geographic Info Sys	. Э	
	GHET 210	Global Positioning Systems	. 3	
	GRET 220	Hydrological Systems	3	
	GRET 221	Landforms/Soil Systems in GIS	3	
	GRET 223	Environmental Resource Momt	3	
	GRET 240	Cartography in GIS	3	
	GRET 241	Remote Sens/AirPhoto Interpret	3	
	GRET 243	ORACLE/Geographic Info Sys	3	
·	GRET 265	Analysis Applications in GIS	. 3	
	LAND 150	Principles of Landscape Arch	3	
	LAND 180	Landscape Ecology	3	
	MATH 119	Investigations with Math	. 3	
	MGMT 234	Diversity in the Workplace	3	
	SPCH 110	Oral Communication in the Workplace		
	WRIT 124	Technical Writing	3	
	LIMITED CHC	ICE REQUIREMENTS TO	TAL: 21 CREDITS	
		indicated number of credits from each CHOICE		
				-
	CHOICE 1:	General Education Core Areas	0 Credits	
	CHOICE 1: (See General	General Education Core Areas	0 Credits	
	(See General	Education Core Requirements for information on	how to fulfill these	
	(See General requirements.	Education Core Requirements for information on Core area proficiency exams, where appropriat	how to fulfill these	
	(See General	Education Core Requirements for information on Core area proficiency exams, where appropriat a.)	how to fulfill these e, are available for	
- 6	(See General requirements.	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1)	n how to fulfill these le, are available for 0	
	(See General requirements.	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (S	n how to fulfill these te, are available for <i>See Note 1)</i> 0	
	(See General requirements.	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (See Note 1)	how to fulfill these te, are available for <i>See Note 1)</i> 0 0	
S	(See General requirements.	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (See Note 1) Mathematics Core Area (See Note 1) Science Core Area (See Note 1)	n how to fulfill these te, are available for See Note 1) 0 0 0	
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2 · · · · · · · · · · · · · · · · · · ·	(See General requirements, each core area	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (See Mathematics Core Area (See Note 1) Science Core Area (See Note 1) Writing Core Area (See Note 1)	n how to fulfill these te, are available for <i>See Note 1)</i> 0 0 0 0	
	(See General requirements. each core area CHOICE 2: GI	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (S Mathematics Core Area (See Note 1) Science Core Area (See Note 1) Writing Core Area (See Note 1) Specializations (Choose one subchoice)	n how to fulfill these te, are available for See Note 1) 0 0 0	
	(See General requirements, each core area CHOICE 2: GI Subchoice 24	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (S Mathematics Core Area (See Note 1) Science Core Area (See Note 1) Writing Core Area (See Note 1) Specializations (Choose one subchoice)	n how to fulfill these te, are available for See Note 1) 0 0 0 12 Credits	
	(See General requirements, each core area CHOICE 2: GI Subchoice 2A GRET 203	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (S Mathematics Core Area (See Note 1) Science Core Area (See Note 1) Writing Core Area (See Note 1) Specializations (Choose one subchoice) Beginning MicroStation	n how to fulfill these te, are available for See Note 1) 0 0 0 12 Credits 3	
	(See General requirements. each core area CHOICE 2: GI Subchoice 2A GRET 203 GRET 204	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Gommunication Core Area (See Note 1) Global Perspectives and Diversity Core Area (S Mathematics Core Area (See Note 1) Science Core Area (See Note 1) Writing Core Area (See Note 1) Specializations (Choose one subchoice) Beginning MicroStation MicroStation Graphic Environ	n how to fulfill these te, are available for See Note 1) 0 0 0 12 Credits 3 3	
	(See General requirements. each core are: CHOICE 2: GI Subchoice 2A GRET 203 GRET 204 GRET 213	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (See Mathematics Core Area (See Note 1) Science Core Area (See Note 1) Writing Core Area (See Note 1) S Specializations (Choose one subchoice) Beginning MicroStation MicroStation Graphic Environ Advanced MicroStation	n how to fulfill these te, are available for <i>See Note 1)</i> 0 0 0 12 Credits 3 3 3 3	
	(See General requirements. each core area CHOICE 2: GI Subchoice 2A GRET 203 GRET 204	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Gommunication Core Area (See Note 1) Global Perspectives and Diversity Core Area (S Mathematics Core Area (See Note 1) Science Core Area (See Note 1) Writing Core Area (See Note 1) Specializations (Choose one subchoice) Beginning MicroStation MicroStation Graphic Environ	n how to fulfill these te, are available for See Note 1) 0 0 0 12 Credits 3 3	
	(See General requirements. each core area choice 2: Gi Subchoice 24 GRET 203 GRET 204 GRET 213 GRET 266	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (See Mathematics Core Area (See Note 1) Science Core Area (See Note 1) Writing Core Area (See Note 1) Specializations (Choose one subchoice) Beginning MicroStation MicroStation Graphic Environ Advanced MicroStation Project Design in GIS	n how to fulfill these te, are available for <i>See Note 1)</i> 0 0 0 12 Credits 3 3 3 3	
	(See General requirements. each core area CHOICE 2: GI Subchoice 2A GRET 203 GRET 204 GRET 213 GRET 266 Subchoice 2E	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (See Mathematics Core Area (See Note 1) Science Core Area (See Note 1) Writing Core Area (See Note 1) Specializations (Choose one subchoice) Beginning MicroStation MicroStation Graphic Environ Advanced MicroStation Project Design in GIS	n how to fulfill these te, are available for See Note 1) 0 0 12 Credits 3 3 3 3 3	
	(See General requirements. each core area choice 2: Gi Subchoice 2A GRET 203 GRET 204 GRET 213 GRET 266 Subchoice 2E GRET 253	Education Core Requirements for information on Core area proficiency exams, where appropriat a) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (See Mathematics Core Area (See Note 1) Science Core Area (See Note 1) Writing Core Area (See Note 1) Specializations (Choose one subchoice) Beginning MicroStation MicroStation Graphic Environ Advanced MicroStation Project Design in GIS Basics of ARC/View	n how to fulfill these te, are available for <i>See Note 1)</i> 0 12 Credits 3 3 3 3 3 3	
	(See General requirements. each core area Subchoice 2A GRET 203 GRET 204 GRET 213 GRET 256 Subchoice 2E GRET 253 GRET 255	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (S Mathematics Core Area (See Note 1) Science Core Area (See Note 1) Writing Core Area (See Note 1) Specializations (Choose one subchoice) Beginning MicroStation MicroStation Graphic Environ Advanced MicroStation Project Design in GIS Basics of ARC/View Beginning ARC/Info	n how to fulfill these te, are available for <i>See Note 1)</i> 0 0 12 Credits 3 3 3 3 3 3 3 3 3 3	
	(See General requirements. each core area Subchoice 24 GRET 203 GRET 204 GRET 213 GRET 266 Subchoice 2E GRET 253 GRET 255 GRET 258	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (See Mathematics Core Area (See Note 1) Science Core Area (See Note 1) Writing Core Area (See Note 1) S Specializations (Choose one subchoice) Beginning MicroStation MicroStation Graphic Environ Advanced MicroStation Project Design in GIS Basics of ARC/View Beginning ARC/Info ARC/View Extensions G.I.S.	n how to fulfill these te, are available for See Note 1) 0 0 12 Credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
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	(See General requirements. each core area Subchoice 24 GRET 203 GRET 204 GRET 213 GRET 266 Subchoice 2E GRET 253 GRET 255 GRET 258	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (See Mathematics Core Area (See Note 1) Science Core Area (See Note 1) Writing Core Area (See Note 1) S Specializations (Choose one subchoice) Beginning MicroStation MicroStation Graphic Environ Advanced MicroStation Project Design in GIS Basics of ARC/View Beginning ARC/Info ARC/View Extensions G.I.S.	n how to fulfill these te, are available for See Note 1) 0 0 12 Credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
	(See General requirements. each core area Subchoice 24 GRET 203 GRET 204 GRET 213 GRET 266 Subchoice 2E GRET 253 GRET 255 GRET 258	Education Core Requirements for information on Core area proficiency exams, where appropriat a.) Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (See Mathematics Core Area (See Note 1) Science Core Area (See Note 1) Writing Core Area (See Note 1) S Specializations (Choose one subchoice) Beginning MicroStation MicroStation Graphic Environ Advanced MicroStation Project Design in GIS Basics of ARC/View Beginning ARC/Info ARC/View Extensions G.I.S.	n how to fulfill these te, are available for See Note 1) 0 0 12 Credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	

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CHOICE 3:	Additional Related Courses	9 Credits
GRET 211	Geomedia-Internet GIS	3
GRET 248	GIS/GPS Field Systems	3
GRET 256	Advanced ARC/Info	. 3
LAND 181	Landscape Restoration/Manage	3
LAND 242	Ecological Land Planning	3
LAND 283	Beginning LANDCADD	. 3
		11
	1 ATE DE AL 16.1 TO MARK 1	·

MINIMUM TOTAL

NOTES:

1. Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	u	10	IV	
GRET 205	GEOL 230	GRET 221	GRET 223	
GRET 220	GRET 210	GRET 243	GRET 265	
GRET 240	GRET 241	LAND 150	WRIT 124	
LAND 180	MGMT 234	SPCH 110	Lim Ch.	
MATH 119	Lim,Ch,	Lim.Ch.	Lim.Ch.	
Lim.Ch.	Lim.Ch.	Lim,Ch,		

GEOGRAPHIC INFORMATION SYSTEMS CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0834 (Effective Fall 2003 - Summer 2008)

This certificate program will emphasize development of components for GIS and project design based on application areas. The certificate allows beginners to become familiar with basic principles and those with some application background to become computer proficient in GIS. Certificate courses can all be applied to the associate degree.

REQUIREME	NTS	TOTAL: 33 CREDITS
CODE	TITLE	CREDIT HOURS
GRET 205	Principles Geographic Info Sys	3
GRET 210	Global Positioning Systems	3
GRET 240	Cartography in GIS	3
GRET 241	Remote Sens/AirPhoto Interpret	- 3
GRET 243	ORACLE/Geographic Info Sys	3
GRET 253	Basics of ARC/View	. 3
GRET 255	Beginning ARC/Info	3
GRET 256	Advanced ARC/Info	. 3
GRET 258	ARC/View Extensions G.I.S.	3
GRET 266	Project Design in GIS	. 3
LAND 282	Computer Draft/Dsgn Land Arch	

33

MINIMUM TOTAL

SUGGESTED COURSE SEQUENCE

ł	11	Ħ	-
GRET 205	GRET 240	GRET 243	· .
GRET 210	GRET 241	GRET 256	
GRET 253	GRET 255	GRET 266	
LAND 282	GRET 258		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY POR A DEGREE OF CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

HEALTH CAREERS

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ACUTE CARE NURSE ASSIS/ORDERLY CERTIFICATE OF COMPLETION

Curriculum Code: 1019 (Effective Fall 2003 - Summer 2004)

This certificate curriculum will prepare an individual for employment as a nursing assistant/orderly in a hospital or other acute care delivery setting. Students will learn the knowledge and skills needed in order to provide safe basic patient care.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Nursing Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

REQUIREME	INTS	· · ·	TOTAL: 6 CREDITS
CODE	TITLE	- 14	CREDIT HOURS
CHSE 101	Acute Care Nurse Assis/Orderly	·. ·	6
			· · ·

MINIMUM TOTAL

NOTES:

 A minimum grade of 2.5 is required in this course for successful completion of this certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses.

CHSE 101

BASIC EMERGENCY MED SERVICES

Curriculum Code: 0269 (Effective Fall 2003 - Summer 2008)

This certificate program prepares an individual as a Basic Emergency Medical Technician (EMT). Basic EMTs perform immediate basic emergency care in medical and traumatic emergencies. Basic EMTs staff ambulances and are employed in hospitals. State licensing is required. Basic EMT courses are approved by the Michigan Department of Consumer and Industry Services. An EMT Academy option is available to students.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Health and Human Service Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

REQUIREME	INTS		TOTAL	31 CREE	NTS
CODE	TITLE			CAEDIT HO	DURS
BIOL 201	Human Anatomy		·	1.41	4
BIOL 202	Human Physiology		· · ·		4
CHSE 117	Health Law and Ethics				2
EMTA 101	Basic EMT I				. 4
EMTA 102	Basic EMT II		e .	:	2
EMTA 103	Basic EMT III	- 1			4
EMTA 104	Basic EMT IV	÷	1	ł	2
EMTA 105	Ambulance Driving		·		1
EMTA 112	Basic EMT Clinical				2
EMTA 114	Rescue/Extrication/Danger Situ				· 3
WRIT 124	Technical Writing				. 3
8	MINIMUM TOTAL		1		31

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

Option 1 - EMT Academy

This option allows students to complete all Basic EMT courses in their first semester. Academy courses are offered in the morning during fall semester and again during spring semester. Students must complete EMTA 101 and EMTA 102 with a 3.0 minimum grade to continue in the sequence.

1	H	141		
EMTA 101	BIOL 201	BIOL 202		1.1.1
EMTA 102	EMTA 105	CHSE 117		· · ·
EMTA 103	EMTA 114		1	
EMTA 104	WRIT 124			1 A
EMTA 112	116			

Option 2

This option allows students to take all Basic EMT courses in the evening and takes two semesters to complete. The evening sequence begins only in the fall. Students must complete EMTA 101 and EMTA 102 with a 3.0 minimum grade to continue in the sequence.

II (FALL)	ili (Spang)	
EMTA 101	BIOL 202	
EMTA 102	EMTA 103	
EMTA 105	EMTA 104	
EMTA 114	EMTA 112	
	EMTA 101 EMTA 102 EMTA 105	EMTA 101 BIOL 202 EMTA 102 EMTA 103 EMTA 105 EMTA 104

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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BASIC EMERGENCY MEDICAL TECH CERTIFICATE OF COMPLETION

Curriculum Code: 1018 (Effective Fall 2003 - Summer 2008)

Basic Emergency Medical Technicians are members of the health care team in the pre-hospital emergency care setting. EMT personnel staff ambulances and are also employed in hospitals, industry, and other public service agencies. They are expected to respond rapidly and effectively to many forms of trauma and medical emergencies and work in close contact with emergency physicians. The job is often fast-paced and always challenging. State licensing is required. Basic EMT courses are approved by the Michigan Department of Consumer and Industry Services. An EMT Academy option is available to students.

PREREQUISITES

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Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION .

Contact the Health and Human Service Careers Department Office, Gannon Vocational Technical Center, Room 1750, telephone number (517) 483-1410.

REQUIREMENTS		TOTAL: 14 CRE	TOTAL: 14 CREDITS		
CODE	TITLE	CREDIT	HOURS		
EMTA 101	Basic EMT I		. 4		
EMTA 102	Basic EMT II		2		
EMTA 103	Basic EMT III		4		
EMTA 104	Basic EMT IV	•	2		
EMTA 112	Basic EMT Clinical	•	2		
· · ·	MINIMUM TOTAL	- *	14		

NOTES:

- 1. Attendance is required at all course sessions to be eligible for the National Registry Exam process.
- To be eligible to receive the Basic Emergency Medical Technician Certificate of Completion, all courses in this curriculum must be completed with a 3.0 arade or better.
- BIOL 201 and BIOL 202 are recommended for students planning to pursue the Emergency Medical Services Certificate of Achievement and/or Associate Degree as well as the Paramedic Certificate of Achievement.

SUGGESTED COURSE SEQUENCE

Option 1 - EMT Academy

This option allows students to complete all courses in one semester and is offered in the morning during fall semester and again during spring semester. Students must complete EMTA 101 and EMTA 102 with a 3.0 minimum grade to continue in the sequence.

EMTA 101 - First 8 weeks of semester EMTA 102 - First 8 weeks of semester EMTA 103 - Second 8 weeks of semester EMTA 104 - Second 8 weeks of semester

EMTA 112 - Second 8 weeks of semester

Option 2

This option allows students to take all courses in the evening. This sequence takes two semesters to complete and begins only in the fall. Students must complete EMTA 101 and EMTA 102 with a 3.0 minimum grade to continue in the sequence.

I (FALL)	II (SPRING)	· ·		
EMTA 101	EMTA 103	·4.	1 - A	
EMTA 102	EMTA 104			
	EMTA 112			•

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DENTAL HYGIENIST ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0279 (Effective Fall 2003 - Summer 2005)

Dental hygienists are licensed preventive oral health care professionals. They provide educational, clinical, and therapeutic services to patients in dental offices, schools, hospitals, long-term care facilities, and other public health programs. Clinical skills include performing patient assessments; taking health histories; examining head, neck; and oral tissues for disease; checking blood pressures; exposing and processing dental x-ray pictures; applying decay-preventing agents to the teeth; polishing fillings; scaling and root planing teeth; and polishing teeth. Upon graduation from this program which is accredited by the Commission on Dental Accreditation of the American Dental Association (CODA), students are eligible to take the written and clinical licensing exams. **Not all courses in this program transfer to all colleges**. Students planning to transfer should see an academic advisor or courselor before enrolling in any course.

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. Many of the courses for this program are open only to students officially admitted to the Dental Hygienist Program.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2003/2004 academic year. For the most recent and complete information, interested students should contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254 or the Dental Hygienist Program, Room 007 A&S building, telephone number (517)483-1457 or (517) 483-1465.

REOUIREMENTS FOR ADMISSION TO THE DENTAL HYGIENIST PROGRAM For current information about admission requirements, students must contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254 or the Dental Hygienist Program (517)483-1457 or (517)483-1465.

REQUIREME	NTS (See Notes 1 and 2)	TOTAL: 70 CREDITS		
CODE	TITLE	CREDIT HOURS		
BIOL 201	Human Anatomy (See Note 3)	4		
BIOL 202	Human Physiology (See Note 3)			
BIOL 203	Microbiology (See Note 3)	3		
DENT 140	Oral Histology & Embryology	2		
DENT-142	PreClinical Dental Hygiene	Э		
DENT 144	PreClinical DH Practice	2		
DENT 146	Head, Neck & Oral Anatomy	4		
DENT 148	Dental Radiography			
DENT 152	Dental Hygiene	2		
DENT 154	Clinical Dental Hygiene I	2.5		
DENT 158	Pharmacology	. 3		
DENT 160	Oral Pathology	. 3		
DENT 174	Clinical Dental Hygiene II	; 1		
DENT 176	Dental Materials & Methods	3		
DENT 240	Anxiety & Pain Control Mgt	2		
DENT 242	Dental Hygiene III	. 2		
DENT 244	Clinical Dental Hygiene III	3.5		
DENT 246	Principles of Periodontics	. 3		
DENT 248	Dental Public Health & Educ	3		
DENT 252	Dental Hygiene IV	2		
DENT 254	Clinical Dental Hygiene IV	3		
DENT 256	Community Oral Health	2		
PFHW 123	Human Nutrition	. 3		
SOCL 120	Introduction to Sociology	. 4.		
SPCH 120	Dynamics of Communication	. 3		

LIMITED CHOICE REQUIREMENTS TOTAL: 3-8 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas	3-4 Credits
(See General Education Core Requirements for information on how	v to fulfill these
requirements. Core area proficiency exams, where appropriate, and	re available for
each core area.)	0

CHOICE 2:	Chemistry (See Note 7)	0-4 0	Credits
	Global Perspectives and Diversity Core Area (Se Mathematics Core Area (See Note 5) Science Core Area (See Note 4) Writing Core Area (See Note 6)	ie Note 4)	0 0 3-4
	Communication Core Area (See Note 4)	Mata di	6 0

MINIMUM TOTAL

NOTES:

- For students accepted into this program, current Basic Cardiac Life Support Certification (Infant, Child, and Adult) is required throughout this program, (EMSB 102 or American Red Cross "Provider C".)
- Students accepted into this program must complete a physical examination and be current in all immunizations required by the Dental Hygiene Program, including Hepatitis B.
- Although not required for the associate degree, it is strongly recommended that BIOL 121 be taken prior to BIOL 201, 202, and 203. It is also recommended that Choice 2 - Chemistry be completed prior to BIOL 201, 202, and 203.
- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Students completing Phase I requirements for admission to the Dental Hygienist Program have fulfilled the requirements for this Core area.
- WRIT 121 is the minimum writing requirement. It may be replaced by ENGL 122, ENGL 132, WRIT 122, WRIT 124, WRIT 127, WRIT 131, or WRIT 132.
- 7. By the start of Fall Semester 2004, students must demonstrate successful completion of one of the two following options within the past seven years to remain in the program: (1) Complete two semesters of high school chemistry with a grade of 2.0 or higher, or (2) Complete any of the following with a grade of 2.0 or higher. OHEM 125, CHEM 130, CHEM 151, or a higher numbered CHEM course with approval from a Dental Hygiene program advisor. CHEM 120 is recommended.
- 8. All courses must be completed with a minimum grade of 2.0 to graduate.

SUGGESTED COURSE SEQUENCE

Courses listed in semesters I, II, and III below must be completed prior to admission to the Dental Hygienist Program as part of the requirements for admission, with the exception of the Limited Choice 2 Chemistry requirement (see Note 7). The Mathematics Core Area requirement must also be completed for admission and may be waived by successfully passing a proficiency exam. Once admitted to the program, students begin semester IV courses during fall semester.

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1	11	18	
Lim.Ch.1	BIOL 201	BIOL 202	
Lim.Ch.2	SOCL 120	BIOL 203	
Core Math Cou	Jrse SPCH 120		· · · · · · · · · · · · · · · · · · ·
(or proficiency)			
IV (FALL)	V (SPRING)	VI (SUMMER)	VII (FALL)
DENT 140	DENT 152	DENT 174	DENT 240
DENT 142	DENT 154	DENT 176	DENT 242
DENT 144	DENT 158		DENT 244
DENT 146	DENT 160		DENT 246
DENT 148	PFHW 123		DEINT 248
		26	
VIII (SPRING)			·
DENT 252			
DENT 254		1	1. A.
DENT 256			
	•		

STUDENTS ARE RESPONSIBLE FOR COMPLETES, ALL IS OUR DIMENTED AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STATUS TO A DEGREE OF CENTRE STATES STATED ARE CARECOLD TO APPLY ONE SEMESTER THEY INTEND TO THE SEMESTER THEY INTEND TO GRADUATE.

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HEALTH CAREERS

DIAGNOSTIC MEDICAL SONOGRAPHY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0790 (Effective Summer 2003 - Summer 2005)

A Diagnostic Medical Sonographer provides patient services in a variety of medical settings using medical ultrasound under the supervision of a physician. Sonographers assist the physician in gathering sonographic data necessary to diagnose a variety of conditions and diseases. Sonographers obtain, review, and integrate patient history and supporting clinical data to facilitate optimum diagnestic results. They perform appropriate procedures and record anatomical, pathological, and/or physiological data as well as sonographic data and other pertinent observations made during the procedure for interpretation by a physician. They provide patient education related to medical ultrasound and promote principles of good health.

The D.M.S. curriculum is an integrated six semester program that incorporates didactic and clinical training designed to prepare the student for employment in the lield of diagnostic medical sonography. The program is aligned with the standards and guidelines of the Joint Review Commission on Diagnostic Medical Sonography and the Commission on Accreditation of Allied Health Education Programs (JRCDMS-CAAHEP.) Graduates of the program are prepared for examination by the American Registry of Diagnostic Medical Sonographers. The associate degree option is for students with no previous background in an allied health field as well as for allied health professionals who have completed the certificate of achievement and who wish to complete additional course work toward this degree.

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. Many of the courses for this program are open only to students officially admitted to the Diagnostic Medical Sonography Program.

PREREQUISITES

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Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2003/2004 academic year. For the most recent and complete information, interested students should contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREMENTS FOR ADMISSION TO THE DIAGNOSTIC MEDICAL SONOG-RAPHY PROGRAM

For current information about admission requirements, students must contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREM	ENTS	TOTAL: 58.5 CREDITS
CODE	titLe	UMEDIT MOONA
BIOL 201	Human Anatomy	4
BIOL 202	Human Physiology	
CHSE 119	Medical Terminology for DMS	2.5
IDMS.200	Sonographic Introduction (See Note 1)	2
IDMS 201	General Sphography I: Abdomen	. 4
IDMS 202	OB/GYN Sonography 1	4
IDMS 234	Sonographic Physics	
IDMS 245	Sonographic Instrumentation	- 2
IDMS 265	General Sonography II	4
IDMS 266	OB/GYN Sonography II	4
IDMS 280	Clinical Experience	· . · 7
IDMS 281	Clinical Experience II	• 7
IDMS 282	Clinical Experience III	8
PHYS 200	Applied Physics (See Note 2)	4

TOTAL: 9-11 CREDITS

LIMITED CHOICE REQUIREMENTS Complete the indicated number of credits from each CHOICE listed below.

9-11 Credits CHOICE 1: General Education Core Areas (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Writing Core Area	3-4
Science Core Area (See Note 4) Writing Core Area	0 3-4
Mathematics Core Area (See Note 3)	ں _{ہو} ا
Communication Core Area Global Perspectives and Diversity Core Area	3-4

- NOTE:
- 1. IDMS 200 may be waived by a D.M.S. program advisor for students with an allied health credential.
- 2. Students with prior physics education should consult with a D.M.S. program advisor before enrolling in this course.
- Students completing Phase I requirements for admission to the Diagnostic Medical Sonography program have fulfilled the requirements for this Core area.
- Students completing REQUIREMENTS have fulfilled the requirements for this Δ Core area.
- SUGGESTED COURSE SEQUENCE

It is recommended, but not required, that students complete their General Education Core courses in Semesters I & II prior to admission to the Diagnostic Medical Sonography program, BIOL 201, BIOL 202, and PHYS 200 must be completed prior to admission to the D.M.S. Program as part of the Phase I requirements for admission. MATH 112 is also required for admission to the program and may be waived by successfully passing a proficiency exam. IDMS courses are offered once a year in the following sequence. Students are admitted to the program in the spring and will be assigned to begin Semester III in the summer semester.

1		IH (SUMMER)	<u>_</u>
BIOL 201	BIOL 202	IDMS 200	
MATH 112 (or	PHYS 200	CHSE 119	
Proficiency)	Lim.Ch.		
Lim.Ch.			· · · · · · · · · · · · · · · · · · ·
Lim.Ch.		4	·
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IV (FALL)	V (SPRING)	VI (SUMMER)	
IDMS 201	10110 045		
	IDMS 245	IDMS 282	
IDMS 201	IDMS 245 IDMS 265	IDMS 282	
	1	IDMS 282	
IDMS 202	IDMS 265	IDM5 282	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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DIAGNOSTIC MEDICAL SONOGRAPHY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0263 (Effective Fall 2003 - Summer 2004)

The certificate option of the D.M.S. program prepares students for examination by the American Registry of Diagnostic Medical Sonographers and is aligned with the standards and guidelines of the Joint Review Commission on Diagnostic Medical Sonography and the Commission on Accreditation of Allied Health Education Programs (JRCDMS-CAAHEP.) It is an option only for graduates of an accredited alied health associate degree program including Radiologic Technology, Registered Nursing, Respiratory Therapy, Occupational Therapy, or Physical Therapy. All other students must follow the Associate in Applied Science Degree curriculum for Diagnostic Medical Sonography and should consult with a D.M.S. program advisor.

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the College: Mariy of the courses for this program are open only to students officially admitted to the Diagnostic Medical Sonography Program.

DREAFOUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2003/2004 academic year. For the most recent and complete information, interested students should contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREMENTS FOR ADMISSION TO THE DIAGNOSTIC MEDICAL SONOG-RAPHY PROGRAM

For current information about admission requirements, students must contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREME		TOTAL: 46 C	DIT-HOURS
CODE	TITLE		. 4
IDMS 201	General Sonography I: Abdomen		4
IDMS 202	OB/GYN Sonography I		2
10MS 234	Sonographic Physics		2
IDMS 245	Sonographic Instrumentation		4
IDMS 265	General Sonography II		. 4
IDMS 266	OB/GYN Sonography II	1	
IDMS 280	Clinical Experience		-7
IDMS 281	Clinical Experience II	· · · ·	
IDMS 282	Clinical Experience III	1	8
PHYS 200	Applied Physics (See Note 1)		4
	MINIMUM TOTAL		46

NOTE:

PHYS 200 may be waived by a D.M.S. program advisor for students with prior physics education.

SUGGESTED COURSE SEQUENCE

Semester I must be completed prior to admission to the D.M.S. program as part of the Phase I requirements for admission. MATH 112 is also required for admission and may be waived by successfully passing a proficiency exam. Students are admitted to the Diagnostic Medical Sonography certificate program in the spring and will be assigned to begin IDMS courses in the fall. Courses are offered once a year in the following sequence.

	II (FALL)	H (SPAING)	 IV (SUMMER)
MATH 112 (or Proficiency) PHYS 200	IDMS 201 IDMS 202 IDMS 234 IDMS 280	IDMS 245 IDMS 265 IDMS 266 IDMS 281	IDMS 282

DIETARY MANAGER CERTIFICATE OF COMPLETION

Curriculum Code: 1026 (Effective Fall 2003 - Summer 2005)

This curriculum will prepare students for a career as a dietary manager. Topics include the role of the supervisor, quality assurance, nutritional principles, purchasing process, sanitation principles, governmental laws as they apply to food service, and other required content to become a dietary manager. This curriculum will also include knowledge of disease states, as well as laboratory data and nutritional assessment techniques as they relate to providing adequate nutritional care to patients. This program is approved by the Dietary Manager's Association. Completion of this program qualifies a student to take the Dietary Manager Association's exam for certification.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Nursing Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

	ITC	TOTAL: 16.5 CREDITS
REQUIREME	CIN .	CREDIT HOURS
CODE	TITLE	5
CHSE 201	Dietary Manager I (See Note 1)	6.5
CHSE 202	Dietary Manager II	. 0.5
	Advanced Dietary Therapy	.5
CHSE 205	Auvaliced Dietary (Tionap)	4
		16.5

MINIMUM TOTAL

Department approval is required to enroll in this course. Please contact the NOTES:

Nursing Careers Department. A minimum grade of 2.5 is required in all courses for successful complation of 2. this certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

	1	. HI	
CHSE 201	CHSE 202	CHSE 205	
UNDE ZUI	0=	$d = -\frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right)^2$	and the second second second second second second second second second second second second second second second
		1	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PROR TO THE SEMESTER THEY INTEND TO GRADUATE.

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HEALTH CAREERS

EMERGENCY MEDICAL SERVICES ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0276 (Effective Fall 2003 - Summer 2008)

This degree program extensively prepares the individual for a career in emergency medical services. Included in this curriculum are the Basic EMT and Paramedic Certificate Programs as well as general education requirements. Basic EMT courses are approved by the Michigan Department of Consumer and Industry Services. The Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs in conjunction with the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Health and Human Service Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

REQUIREME	NTS (See Note 1)	5	TOTAL: 61 CREDITS
CODE	TITLE	•	CREDIT HOURS
BIOL 201	Human Anatomy (See Note 2)		. 4
BIOL 202	Human Physiology (See Note 2)		4
EMTA 101	Basic EMT I	•	4
EMTA 102	Basic EMT II		2
EMTA 103	Basic EMT III		. 4
EMTA 104	Basic EMT IV	1	. 2
EMTA 112	Basic EMT Clinical		2
PARA 221	Paramedic Medical Trauma I	· · · ·	5
PARA 222	Paramedic Medical Trauma II		. 5
PARA 231	Paramedic Cardiology I		3
PARA 232	Paramedic Cardiology II		
PARA 241	Paramedic Pharmacology I		3
PARA 242	Paramedic Pharmacology II		3
PARA 251	Paramedic Skills.1		2
PARA 252	Paramedic Skills II		. 2
PARA 261	Paramedic Clinical I		. 3
PARA 262	Paramedic Clinical II		4
PARA 263	Paramedic Internship		3
WRIT 124	Technical Writing		3

LIMITED CHOICE REQUIREMENTS TOTAL: 13-17 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 9-11 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area	1.	Э
	Global Perspectives and Diversity Core Area		3-4
	Mathematics Core Area		3-4
	Science Core Area (See Note 3)		0
	Writing Core Area (See Note 3)		0
CHOICE 2:	EMS Choices (See Note 4)	4-6 C	redits
CHSE 117	Health Law & Ethics		2
EMTA 105	Ambulance Driving		1 1
EMTA 114	Rescue/Extrication/Danger Situ		3
EMTA 222	EMS Instructor Coordinator		6
	MINIMUM TOTAL	1.1.1	74

NOTES:

- This curriculum includes PARA 221 through PARA 263 which are the Paramedic Certificate of Achievement courses. The Paramedic Certificate Program is a selective admission program with admission requirements beyond those required for admission to the college. PARA 221 through PARA 263 are open only to students officially admitted to the program. Students should consult with an Emergency Medical Services program advisor regarding this segment of the program before beginning this curriculum.
- BIOL 145 may be substituted for BIOL 201 and BIOL 202 for Fall 2003 admitted students only. Beginning with Fall 2004, BIOL 201 and BIOL 202 will be required for all students.
- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- 4. Students who have not already completed Basic EMT and Paramedic certificate programs must select from CHSE 117, EMTA 105, and EMTA 114 to satisfy Choice 2. Students who have already completed Basic EMT and Paramedic certificate programs may elect EMTA 222 to satisfy Choice 2.
- To graduate from this program, a minimum grade of 3.0 is required in all CHSE, EMTA, and PARA courses. A minimum grade of 2.0 is required in all other courses.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time or have prerequisites to fulfill) or who have already completed a Basic Emergency Medical Services course should contact the Health and Human. Service Careers Department for academic advising.

Option 1 - EMT Academy

This option allows students to complete all Basic EMT courses in one semester as listed below in Semester II. The academy is offered in the morning during fall semester and again during spring semester. (Semesters II and III can be exchanged.)

(SURBAER)	II (FALL)	11 (SPRING)	IV (FALL)	
BIOL 201	EMTA 101	BIOL 202	PARA 221	
WRIT 124	EMTA 102	Lim Ch.	PARA 231	
Lim.Ch.	EMTA 103	Lim.Ch.	PARA 241	
Lim.Ch.	EMTA 104	Lim.Ch.	PARA 251	· ·
	EMTA 112		PARA 261	
	Lim.Ch.		· · ·	
V (Špring)	VI (SUMMER)			
PARA 222	PARA 263			
PARA 232				
PARA 242			5 S	1 A.
PARA 252				
PARA 262		· ·		
	1. Sec. 1. Sec		1	
Option 2				

This option allows students to take all Basic EMT courses in the evening as listed below in Semesters II and III. This option begins only in the fall.

			•	
I (SUMMER)	II (FALL)	III (SPRING)	IV (FALL)	
BIOL 201	BIOL 202	EMTA 103	PARA 221	
WRIT 124	EMTA 101	EMTA 104	PARA 231	
Lim.Ch.	EMTA 102	EMTÁ 112	PARA 241	
Lim.Ch.	Lim.Ch.	Lim.Ch.	PARA 251	
	Lim.Ch.	Lim.Ch.	PARA 261	
for the second second				
V (SPRING)	VI (SUMMER)	-	а. -	
PARA 222	PARA 263			
PARA 232				
PARA 242				
PARA 252		·	and the second second second second second second second second second second second second second second second	
PARA 262				

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL RECORREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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HEALTH UNIT CLERK/COORDINATOR CERTIFICATE OF COMPLETION

Curriculum Code: 1014 (Effective Fall 2003 - Summer 2004)

This certificate curriculum prepares individuals for entry-level positions as health unit clerks and will provide a basic knowledge of word building, use, pronunciation, and spelling of medical terms. It will also introduce the student to basic health care unit coordinator skills such as communication, computer skills, assertiveness, ohart forms, admissions, transfers, discharges, death, and dying, pharmacology, laboratory test, transcribing physician orders, and job application skills.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Nursing Careers Department, Gannon Vocational-Technical Building, Room 1750, telephone number (517) 483-1410.

REQUIREM	IENTS	тот	AL: 9 CRE	DITS
CODE	TITLE	1 - I	CREDIT I	10URS
CHSE 120	Medical Terminology			. 4
CHSE 132	Health Unit Coordinator		· ·	5
1.1	and the second se	1		1.1
	MINIMUM TOTAL			9
	· · · ·			
-	Health Unit Coordinator			

NOTES:

 A minimum grade of 2.5 is required in all courses for successful completion of this certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below should contact an academic advisor or counselor for help with adjustments.

1	H		
CHSE 120	CHSE 132	÷	

HEALTHCARE CENTRAL SERV TECH CERTIFICATE OF COMPLETION

Curriculum Code: 1017 (Effective Fall 2003 - Summer 2004)

This certificate curriculum prepares individuals to function competently in the central service department of a healthcare facility. Duties include, but are not limited to, processing of patient care equipment, supplies and instruments for use in all departments. Includes principles and practices of decontamination, cleaning, disinfection, sterilization, and distribution of medical/surgical supplies.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Nursing Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

REQUIREME	INTS		TOTAL: 5 CI	REDITS
CODE	TITLE .	· · ·	. · CAED	IT HOURS
CHSE 145	Healthcare Central Serv Tech			5
-	MINIMUM TOTAL			5

NOTES:

1. A minimum grade of 2.5 is required in CHSE 145 for successful completion of this certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses.

1 CHSE 145

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE CALLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER THEY INTEND TO THE SEMESTER THEY INTEND TO GRADUATE.

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LONG-TERM CARE NURSE AIDE CERTIFICATE OF COMPLETION

Curriculum Code: 1025 (Effective Fall 2003 - Summer 2004)

This certificate curriculum will prepare an individual to be a nurse aide in a longterm care facility or home health care agency. This state-approved course will provide specific knowledge and skills required for a nurse aide to safely function in a long-term care setting. Upon successful completion of this course, the student is qualified to take the State Competency Evaluation Nurse Aide Examination to become a Certified Nursing Assistant (CNA).

PREREQUISITES

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Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Nursing Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

REQUIREN	ENTS	TOTAL: 4 CREDITS
CODÉ	TITLE .	CREDIT HOURS
CHSE 108	Long-term Care Nurse Aide	. 4
	MINIMUM TOTAL	. 4

NOTES:

 A minimum grade of 2.5 is required in CHSE 108 for successful completion of this certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses.

CHSE 108

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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MASSAGE THERAPY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0837 (Effective Fall 2003 - Summer 2008)

This program prepares an individual in the field of soft tissue massage. Massage therapists may be employed in private practice or in a variety of health care settings, spas, lodging, and exercise facilities. This Certificate of Achievement is not affiliated with any national certification organization; however, the Massage Therapy Program is approved through the National Certification Board for Therapeutic Massage and Bodywork (NCBTMB). Successful completion of this program prepares an individual for national certification testing through the NCBTMB.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Health and Human Service Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

REOUIREMENTS		TOTAL: 29 CREDITS
CODE	TITLE	CREDIT HOURS
BIOL 145	Introductory Anat & Physiology	4
MASG 270	Massage Therapy-Beginning	. 2
MASG 271	Massage Therapy-Intermediate	2
MASG 275	Touch for Health	1.
MASG 277	Polarity Therapy I	, 2
MASG 279	Business Applications/Masg	2
MASG 282	Clinical/Rehab Massage Tech I	4
MASG 283	Clinical/Rehab Massage Tech II	4
MASG 288	Sports Massage Techniques	2
MASG 290	Massage Lab Practicum (See Note 1)	1
PFHW 163	Healthy Lifestyles	2
PFHW 181	Stress Management	1

LIMITED CHOICE REQUIREMENTS TOTAL: 2-3 CREDITS Complete the indicated number of credits from <u>each</u> CHOICE listed below.

CHOICE 1: CHSE 118 MASG 278 MASG 285 PFHW 105	Herbology in Health Careers Polarity Therapy II Maternal/Infant Massage Med Alternatives/Hith & Wins	2-3 Credits 3 2 3 2
PFHW 133 PFHW 161	Therapeutic Touch and Yoga Self-Awareness: Key to Winess MINIMUM TOTAL	3 2 31

NOTES:

- The Massage Lab Practicum (MASG 290) consists of 32 hours of supervised massage work. Students must enroll in MASG 290 three semesters, completing a minimum of 32 supervised lab hours in each semester of enrollment for a total of 96 hours.
- 2. All courses must be completed with a 2.5 grade or better to receive the Certificate of Achievement.
- All massage courses must be completed within five years of enrollment in the first massage course.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	lí	¥I	IV	
BÍOL 145	MASG 271	MASG 277	MASG 279	
MASG 270	MASG 275	MASG 282	MASG 283	
	MASG 290	MASG 290	MASG 288	
`	PFHW 163	PFHW 161	MASG 290	
	Lim,Ch.1			

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED, THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PROGR TO THE SEMESTER THEY INTEND TO GRADULATE.

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MEDICAL INSURANCE BILLING CERTIFICATE OF COMPLETION

Curriculum Code: 1013 (Effective Fall 2003 - Summer 2008)

This curriculum will provide a basic knowledge of word building, use, pronunciation, and spelling of medical terms. It will also introduce the student to insurance billing, diagnostic and procedure coding for physician billing, and comprehensive billing directions for commercial insurances and worker's compensation. Students will also learn to record charges/payments/information, schedule appointments, ICD-9 and CPT coding, produce claim forms and patient statements, submit claims electronically, and build office databases.

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

Contact the Nursing Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

REOUIREME	NTS TITLE	TOTAL	CREDIT HOUR	
CHSE 120 CHSE 123 CHSE 123 CHSE 124 CHSE 125	Medical Terminology (See Note 1) Medical Insurance Billing I Medical Insurance Billing II Computers in Medical Office			4 3 3 1
·	MINIMUM TOTAL		1	11

1. CHSE 120 and CHSE 123 may be taken concurrently with program advisor

- 2. A minimum grade of 2.5 is required in all courses for successful completion of
- 3. Successful completion of CHSE 120, CHSE 123, and CHSE 124 may be this certificate. applied toward the requirements of the Medical Administrative Assistant Associate in Business Degree (curriculum code 0185).

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transterred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

i	11	81	·	
CHSE 120	CHSE 123	CHSE 124 CHSE 125		•

MULTI-SKILL PATIENT CARE TECH CERTIFICATE OF COMPLETION

Curriculum Code: 0768 (Effective Fall 2003 - Summer 2008)

Students may enter this program from several health-care disciplines or with no health-care experience. Graduates are prepared to perform a variety of duties related to basic patient care at a level of trained, unlicensed personnel and are employed in the hospital setting. Clinical components will be provided in cooperation with various medical facilities.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment, and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Nursing Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone (517) 483-1410.

		•	TOTAL:	15 Cr	edits
REQUIREME			(CREDIT H	IOURS
CODE	TITLE				6
CHSE 101	Acute Care Nurse Assis/Orderly				1
CHSE 116	EKG for Health Care Providers		1.1	1	2
CHSE 117	Health Law and Ethics			11	4
CHSE 120	Medical Terminology				2
CHSE 143	Phlebotomy Technician				
	MINIMUM TOTAL		·.		15

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	. li
CHSE 101 CHSE 117 CHSE 120	CHSE 116 CHSE 143

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE. LANSING COMMUNITY COLLEGE CATALOG 2003-2005 E 127

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HEALTH CAREERS

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NURSE AIDE: ACUTE & LONG-TERM CERTIFICATE OF COMPLETION

Curriculum Code: 1027 (Effective Fall 2003 - Summer 2004)

This certificate curriculum will prepare an individual for employment as a nurse assistant in an acute care hospital, a home health care clinic, or a long-term care facility. Upon successful completion of this course the student is qualified to take the State Competency Evaluation Nurse Aide Examination to become a Certified Nursing Assistant (CNA).

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Nursing Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

REQUIREMEN	ITS .		TOTAL	: 8 CR	EDITS	
CODE	TITLE			CREDIT	HOURS	
CHSE 110	Nurse Aide: Acute & Long-Term				.: 8	
•	in the second second second second second second second second second second second second second second second	N.	•	1.11	17.	
	MINIMUM TOTAL		1		. 8	

NOTES:

1. A minimum grade of 2.5 is required in CHSE 110 for successful completion of this certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses.

CHSE 110

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAP'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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NURSING. LPN OPTION CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0235 (Effective Fall 2003 - Fall 2004)

The Practical Nursing Program at Lansing Community College is approved by the Michigan Board of Nursing and implements the career ladder concept. There are specific prerequisites required for entry into the program. Building on these prerequisites, a student completing the first year receives a Certificate of Achievement and is eligible to take a national examination for Licensed Practical Nurse (LPN).

The Licensed Practical Nurse (LPN) Program prepares an individual to, with supervision from the Registered Nurse, implement a plan of care for clients in a variety of health care settings. The education and scope of practice of the LPN is determined by state law. Successful completion of the National Council Licensing Examination-Practical Nurse is required.

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. Many of the courses for this program are open only to students officially admitted to the Nursing Program.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2003/2004 academic year. For the most recent and complete information, interested students should contact the Admissions Office, Room 2200, Gannon Vocational-Technical Center, telephone (517) 483-1254.

REQUIREMENTS FOR ADMISSION TO THE NURSING PROGRAM, LPN AND RN OPTIONS

For current information about admission requirements, students must contact the Admissions Office, Room 2200, Gannon Vocational-Technical Center, telephone (517) 483-1254.

REOUIREME	ENTS (See Note 1) TO	DTAL: 4	4 CRE	DITS
CODE	TITLE		CREDIT H	OURS
BIOL 201	Human Anatomy			4
BIOL 202	Human Physiology			· 4
NURS 150	Fundamentals in Nursing Care (See Note 2)			. 9
NURS 160	Acute Nursing Care		5	6
NURS 165	Maternity Nursing Care			5
NURS 200	Pharmacology (See Note 2)		•	3
PEHW 163	Healthy Lifestyles			2
PSYC 200	Introduction to Psychology			4
PSYC 205	Human Growth and Development	-		3
WRIT 121	Composition I (See Note 3)		1	4

NOTES:

O WHEN

 Current Basic Life Support Certification (BLS) is required throughout the program (EMSB 102 or American Red Cross "Provider C.")

MINIMUM TOTAL

- NURS 200 may be taken up to two years prior to admission to the Nursing Program or concurrently with NURS 150.
- WRIT 121 is the minimum writing requirement. It may be replaced by WRIT 122, WRIT 131, or WRIT 132.
- All courses in this curriculum must be completed with a grade of 2.5 or better to earn the certificate of achievement with the exception of MATH 112 which must be completed with a 2.0 or better.

SUGGESTED COURSE SEQUENCE

Courses listed in Semester I below must be completed prior to admission to the Nursing Program as part of the Phase I requirements for admission. MATH 112 - Intermediate Algebra is required for admission and may be waived by successfully passing a proficiency exam. Although students are accepted to the program in June or July, they will be assigned to begin Semester II in either fall or spring semester. A student may not begin a new semester until she or he has successfully completed all of the courses, with the aforementioned grades, listed in a previous sequenced semester. Please note, some courses may be completed before the designated semester, typically non-nursing courses. NURS 200 is the only. NURS-prefix course that is offered summer semester.

I	<u>.</u> ·II	ан ^с	
BIQL 201	BIOL 202	NURS 160	
MATH 112 (or	NURS 150	NURS 165	
Proficiency)	NURS 200	PSYC 205	
PFHW 163			·
PSYC 200		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
WRIT 121			

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY. INTEND TO GRADUATE.

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NURSING, RN OPTION ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0222 (Effective Fall 2003 - Fall 2005)

The Nursing Program at Lansing Community College is nationally accredited by the National League for Nursing Accrediting Commission (NLNAC) and is approved by the Michigan Board of Nursing. It implements the career ladder concept. There are specific prerequisites required for entry into the program. Building on these prerequisites, a student completing the first year receives a certificate of achievement and is eligible to take a national examination for Licensed Practical Nurse (LPN). A student successfully completing the second year will receive an associate degree in applied science and is eligible to take the national examination for Registered Nurse (RN). A current LPN or licensed paramedic may gain entry into the second year of the associate degree RN program as an advanced standing student.

The Registered Nurse (RN) Program prepares the individual to care for clients of all ages in a variety of health care settings. As an essential member of the health care team, the RN is responsible for developing, implementing and evaluating a plan of care for clients. The RN is required to assist clients in achieving their health goals through effective communication, decision making, problem-solving, management and technological skills. Registered nurses work in hospitals, clinics, offices, nursing homes, and home health care settings, in addition to schools, research facilities, and community agencies. The education and scope of practice of the RN is determined by state law. The student must successfully complete this program and the National Council Licensing Examination-Registered Nurse (NCLEX-RN).

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. Many of the courses for this program are open only to students officially admitted to the Nursing Program.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2003/2004 academic year. For the most recent and complete information, interested students should contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREMENTS FOR ADMISSION TO THE NURSING PROGRAM, LPN AND RN OPTIONS

For current information about admission requirements, students must contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREMENTS (See Note 1)		•	TOTAL: 48 CREDI	TS	
CODE	TITLE		CREDIT HO	JŖS	
BIOL 201	Human Anatomy	/1000 100/10 10/1 10/10 f 10		4	
BIOL 202	Human Physiology			4	
BIOL 203	Microbiology (See Note 2)			Э	
NURS 200	Pharmacology (See Note 3)		•	Э	
NURS 260	Mental Health Nursing Care			5	
NURS 265	Pediatric Nursing Care.			5	
NURS 280	Advanced Chronic Nursing Care			5	
NURS 285	Advanced Acute Nursing Care			5	
NURS 290	Leadership in Nursing Care			1	
PFHW 163	Healthy Lifestyles			2	
PSYC 200	Introduction to Psychology	· · .		4	
PSYC 205	Human Growth and Development			3	
WRIT 121	Composition I (See Note 4)	1		4	

LIMITED CHOICE REQUIREMENTS TOTAL: 26-27 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 6-7 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area			. 3
Global Perspectives and Diversity Core Area			. 3-4
Mathematics Core Area (See Note 5)	A		0
Science Core Area (See Note 6)			0
Writing Core Area (See Note 6)		1	0

CHOICE 2: Nursing Program Areas (Choose one subchoice) 20 Credits (Nursing students will select either Subchoice 2A or 2B to satisfy the first year requirements of the Nursing, RN Option Associate in Applied Science Degree.) Subchoice 2A: Traditional Sequence

NURS 150	Fundamentals of Nursing (See No	ite 3)	9
NURS 160	Acute Nursing Care		`6
NURS 165	Maternity Nursing Care	•	5

Subchoice 2B: Advanced Standing Sequence

JRS 210	LPN or Paramedic License (See Note 7) LPN/Paramedic to RN Transition		
	MINIMUM TOTAL		74

NOTES:

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- Current Basic Cardiac Support Certification (BLS) is required throughout the program (EMSB 102 or American Red Cross "Provider C.")
- Although not required for the associate degree, BIOL 204 is strongly recommended to be taken concurrently with BIOL 203. It will be required for nurses who continue on to a four-year university.
- NURS 200 may be taken up to two years prior to admission into the program or concurrently with NURS 150.
- WRIT 121 is the minimum writing requirement. It may be replaced by WRIT 122, WRIT 131, or WRIT 132.
- 5. Students meeting Phase I admission requirements for the Nursing Program have met the Math Core requirement for this curriculum.
- 6. Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area.
- A current and unrestricted LPN or Paramedic license and a minimum of one year work experience is required for this subchoice. Students should contact the Nursing Careers Department at (517) 483-1410 for information.
- 8. All courses in this curriculum must be completed with a grade of 2.5 or better to graduate with the exception of (1) MATH 112, (2) the Communication Core Area course, and (3) the Global Perspectives and Diversity Core Area course, all three of which must be completed with a grade of 2.0 or better.

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SUGGESTED COURSE SEQUENCE Subchoice 2A: Traditional Sequence

Courses listed in Semester I below must be completed prior to admission to the Nursing Program as part of the Phase I requirements for admission. MATH 112 -Intermediate Algebra is required for admission and may be waived by successfully passing a proficiency exam. Although students are accepted to the program in June or July, they will be assigned to begin Semester II in either fall or spring semester. A student may not begin a new semester until she or he has successfully completed all of the courses listed in the previous sequenced semester with the grade requirements in Note 8 above. Please note that some courses may be completed before the designated semester, typically non-nursing courses. NURS 200 is the only NURS-prefix course that is offered summer semester.

1	31	lii.	ŧ٧	
BIOL 201	BIOL 202	NURS 160	BIOL 203	
MATH 112 (or	NURS 150	NURS 165	NURS 260	
Proficiency)	NURS 200	PSYC 205	NURS 265	
PFHW 163				-
PSYC 200				
WRIT 121	· .			
v				
NURS 280				· · ·
NURS 285				·.
NURS 290				

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Subchoice 2B: Advanced Standing Sequence

Courses listed in Semesters I and II below must be completed prior to admission to the Nursing Program as part of the Phase I requirements for admission. MATH 112 - Intermediate Algebra is required for admission and may be waived by successfully passing a proficiency exam. Although students are accepted to the program in June or July, they will be assigned to begin Semester III in the fall semester. A student may not begin a new semester until she or he has successfully completed all of the courses listed in the previous sequenced semester with the grade requirements in Note 8 above.

1	3	18	lV .
BIOL 201	BIOL 202	NURS 210	BIOL 203
MATH 112 (or	NURS 200	No.	NURS 260
Proficiency)	PSYC 205		NURS 265
PFHW 163		е 	
PSYC 200			· · · · · · · · · · · · · · · · · · ·
WRIT 121			1
v			
NURS 280	:		
NURS 285			-
NURS 290		· · ·	· · · ·
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STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADULATE.

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PARAMEDIC CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0272 (Effective Fall 2003 - Summer 2004)

This certificate program prepares the Basic EMT in advanced techniques of administering care in life-threatening conditions. Paramedics are employed by advanced life support ambulances and in emergency departments and critical care units of hospitals. State licensing is required. The Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs in conjunction with the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions.

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. Many of the courses for this program are open only to students officially admitted to the Paramedic Program.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2003/2004 academic year. For the most recent and complete information, interested students should contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREMENTS FOR ADMISSION TO THE PARAMEDIC PROGRAM

For current information about admission requirements, students must contact the Admissions Office, Gannon Vocational Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREME	NTS	TOTAL: 44 CRE	DITS
CODE	TITLE	CREDIT H	IOURS
BIOL 201	Human Anatomy (See Note 1)		4
BIOL 202	Human Physiology (See Note 1)		4
PARA 221	Paramedic Medical Trauma I		5
PARA 222	Paramedic Medical Trauma II		5
PARA 231	Paramedic Cardiology I		3
PARA 232	Paramedic Cardiology II		3
PARA 241	Paramedic Pharmacology I		Э
PARA 242	Paramedic Pharmacology II	· · · · · · · · · · · · · · · · · · ·	3
PARA 251	Paramedic Skills I		2
PARA 252	Paramedic Skills II	1	2
PARA 261	Paramedic Clinical I		3 -
PARA 262	Paramedic Clinical II		4
PARA 263	Paramedic Internship		3
•	MINIMUM TOTAL	х Г.	44

NOTE:

 BIOL 145 may be substituted for BIOL 201 and BIOL 202 for Fall 2003 admitted students only Beginning with Fall 2004, BIOL 201 and BIOL 202 will be required for all students.

 Students must complete each required PARA course with a minimum 3.0 grade to earn a Certificate of Achievement. BIOL 201 and BIOL 202 must be completed with a minimum 2.0 grade.

SUGGESTED COURSE SEQUENCE

Courses listed in Semesters I and II below must be completed prior to admission to the Paramedic program as part of the Phase I requirements for admission. PARA courses begin only in the fall and are offered once a year in the following sequence. Students are admitted to the program in the summer and will be assigned to begin Semester III in the fall semester. A student may not begin a new semester until she or he has successfully completed all of the courses listed in a previous sequenced semester.

1	1	III (FALL)	IV (SPRING)	•
BIOL 201	BIOL 202	PARA 221	PARA 222	
	· , ·	PARA 231	PARA 232	
		PARA 241	PARA 242	
	÷	PARA 251	PARA 252	
	×	PARA 261	PARA 262	

V (SUMMER) PARA 263

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DECHEE ON COMPLETING ALL REQUIREMENTS AS STATED. THE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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PHARMACY TECHNICIAN CERTIFICATE OF COMPLETION

Curriculum Code: 1024 (Effective Fall 2003 - Summer 2004)

This certificate curriculum is designed to introduce students to the skills necessary for a pharmacy technician position in a hospital or retail pharmacy. Students will be prepared to function with knowledge and accuracy in dispensing and control of drugs in either setting. Students are prepared to take the Pharmacy Technician State Certification Exam.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Nursing Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

REQUIREMENTS		TOTAL: 4 CREDIT	
CODE	TITLE	CREDIT HOURS	
CHSE 235	Pharmacy Technician (See Note 1)	4	
	MINIMUM TOTAL	4	

NOTES:

- 1. Completion of MATH 050 with a 2.0 minimum or Math Level 4 is required to enroll in this course.
- 2. A minimum grade of 2.5 is required in CHSE 235 for successful completion of this certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses.

CHSE 235

PHLEBOTOMY TECHNICIAN CERTIFICATE OF COMPLETION

Curriculum Code: 1010 (Effective Fall 2003 - Summer 2004)

This certificate curriculum is designed to prepare a person to function as a phlebotomy technician. It will provide the knowledge and skill necessary to safely and skillfully obtain a blood specimen from a patient. A phlebotomist may work in a variety of settings such as hospitals, outpatient labs, physicians' offices, or clinics; or may travel to different locations such as convalescent hospitals.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequlsite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Nursing Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

REQUIREMEN	กร	.*	 ÷	TOTAL: 2 C	REDITS
CODE	TITLE			CRED	IT HOURS
CHSE 143	Phlebotomy	/ Technician			2

MINIMUM TOTAL		

NOTES:

1. A minimum grade of 2.5 is required in CHSE 143 for successful completion of this certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses.

CHSE 143

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL OCCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PROR TO THE SEMESTER THEY INTEND TO GRADUATE.

RADIOLOGIC TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE

Curriculum Code: 0196 (Effective Fall 2003 - Summer 2005)

Radiologic technologists, also called radiographers, operate X-ray equipment under the direction of a physician, taking radiographs of internal parts of the body. Most often radiologic technologists are employed in hospitals, clinics and physician offices. Graduates of the program will be eligible for examination by the American Registry of Radiologic Technologists (ARRT). Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course. This program is accredited by the Joint Review Committee on Education in Radiologic Technology.

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. Many of the courses for this program are open only to students officially admitted to the Radiologic Technology Program.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2003/2004 academic year. For the most recent and complete information, interested students should contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREMENTS FOR ADMISSION TO THE RADIOLOGIC TECHNOLOGY PROGRAM

For current information about admission requirements, students must contact the Admissions Office, Gannon Vocationel-Technical Center, Room 2200, telephone number (517) 483-1254

REQUIREME	NTS	TOTAL: 61 CREDITS
CODE	TITLE	CREDIT HOURS
BIOL 201	Human Anatomy	4
BIOL 202	Human Physiology	. 4
CHSE 117	Health Law and Ethics	2
IRXT 100	Intro to Imaging/Patient Care	4
IRXT 111	Radiographic Positioning I	. 5.
IRXT 112	Radiographic Positioning II	5
IRXT 114	Cross-Sectional Anatomy	Э
IRXT 121	Radiographic Exposure I	3
IRXT 122	Radiographic Exposure II	3
IRXT 131	Radiologic Physics	. 3
IRXT 132	Radiobiology and Protection	2
IRXT 200	Intro/Radiologic Pathology	. 2
IRXT 202	Clinical Practice I	4
IRXT 204	Clinical Practice II-S	.5
IRXT 214	Comprehensive Experience I	6
IRXT-215	Comprehensive Experience II	6
	OICE REQUIREMENTS	TOTAL: 9-11 CREDITS
Complete the		
(See Genera	General Education Core Areas I Education Core Requirements for info Core area proficiency exams, where	
each core ar	ea.;	

Communication Core Area Global Perspectives and Diversity Core Area 3-4 Mathematics Core Area (See Note 1) Science Core Area (See Note 2) Writing Core Area 3-4

MINIMUM TOTAL

NOTES:

- Students completing Phase I requirements for admission to the Radiologic Technology Program have fulfilled the requirements for this Core area.
- Students completing REQUIREMENTS have fulfilled the requirements for this 2. Core area.

SUGGESTED COURSE SEQUENCE

BIOL 201 must be completed prior to admission to the Radiologic Technology Program as part of the Phase I requirements for admission, MATH 112 is also required for admission and may be waived by successfully passing the MATH 112 proficiency exam. Beginning with Fall 2004, BIOL 201, BIOL 202, and MATH 112 or proficiency must all be completed prior to admission. The program admits students in the fall semester only. Students who for any reason are unable to follow the course sequence suggested below (for example, those who have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments. Although not a requirement, it is strongly recommended that students complete Limited Choice Requirements before entry into the program.

i - 1	11 (FALL)	III (SPRING)	IV (SLIMMER)
BIOL 201	BIOL 202	CHSE 117	IRXT 204
MATH 112 (or	IRXT 100	IRXT 112	Lim.Ch.
proficiency)	IBXT 111	IRXT 122	
	IRXT 121	IRXT 202	
		Lim.Ch.	
V (FALL)	VI (SPRING)		· · · · · · · · · · · · · · · · · · ·
IRXT 114	IRXT 132		
IRXT 131	IRXT 200		
IRXT 214	IRXT 215		
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STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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SURGICAL TECHNOLOGY **ASSOCIATE IN APPLIED SCIENCE DEGREE**

Curriculum Code: 1021 (Effective Fall 2003 - Summer 2005)

A surgical technologist assists the surgeon in the operating room as a member of the surgical team. Some of the duties of the surgical technologist include preparing the operating room for the surgical procedure; preparing all sterile areas and instruments for use; assisting with sterile draping, gowning and gloving; and handing sterile instruments to the surgical assistant or surgeon. The surgical technologist may work in a hospital operating room, a surgeon's private office, a surgical outpatient clinic, and possibly in an emergency room or obstetrical delivery room. The surgical technologist may become certified through a national exam offered by the Association of Surgical Technologists. This program is accredited by the Accreditation Review Committee on Education in Surgical Technology (ARC-ST) and the Commission on Accreditation of Allied Health Education Programs (CAA-HEP),

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. Many of the courses for this program are open only to students officially admitted to the Surgical Technology program.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prereguisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

The admission and/or graduation requirements for this program may change each academic year. Students wishing to pursue the Certificate of Achievement in Surgical Technology may select that curriculum option and will not need to meet CORE general education requirements included in the associate degree curriculum. The program requirements below apply only to those students who have been admitted to the program for the 2003/2004 academic year. For the most recent and complete information, interested students should contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254,

REQUIREMENTS FOR ADMISSION TO THE SURGICAL TECHNOLOGY PRO-GRAM

For current information about admission requirements, students must contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREME	NTS (See Note 1)	TOTAL: 50 CREDITS
CODE	TITLE	CREDIT HOURS
BIOL 201	Human Anatomy (See Note 2)	. 4
BIOL 202	Human Physiology (See Note 2)	4
CHSE 117	Health Law and Ethics (See Note 2)	2
CHSE 120	Medical Terminology (See Note 2)	4
MGMT-234	Diversity in the Workplace	3
SURG 100	Fundamental Surgical Tech	- 3
SURG 101	The Surgical Patient	2
SURG 103	Surgical Asepsis (See Note 3)	2
SURG 104	Operative Procedures	6
SURG 121	Applied Surg Techniques I	2
SURG 122	Applied Surg Techniques II	4
SURG 123	Applied Surg Techniques III	8
SURG 124	Applied Surg Techniques IV	
WRIT 121	Composition I (See Note 4)	4

LIMITED CHOICE REQUIREMENTS TOTAL: 15-19 CREDITS Complete the indicated number of credits from each CHOICE listed below

CHOICE 1: General Education Core Areas 6-7 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area	3
	Global Perspectives and Diversity Core Area (See Note 5)	0
	Mathematics Core Area	3-4
• •	Science Core Area (See Note 5)	. 0.
	Writing Core Area (See Note 5)	, O

CHOICE 2:	Surgical Technology Supportive Courses	9-12 Credits
CHEM 120	Gen Organic & Biological Chem	4
CHEM 135	Chemistry in Society	. 4
CHSE 114	Introduction to Pathology	2
CHSE 115	Pharmacology-Allied Health	. 2
CHSE 145	Healthcare Central Serv Tech	- 5
MGMT 231	Team Development	· 3
MGMT 249	Dealing with Difficult People	$(1, 1, \dots, 1)$
MGMT 271 -	Managing/Resolving Conflict	e a ar e ^l int
MGMT 272	Success Through Assertiveness	1
PHIL 151	Intro: Logic & Critical Think	4
PHIL 152	Introduction to Ethics	4
PSYC 175	Psych of Death:Prep for Living	. 3
PSYC 200	Introduction to Psychology	. 4

HEALTH CAREERS

65

MINIMUM TOTAL

NOTES:

- 1. Current Basic Cardiac Life Support Certification (BCLS) is required throughout the program (EMSB 102 or American Red Cross "Provider C".) It is highly recommended that students be familiar with computer technology. It is also recommended that students enroll in CABS 103 Internet Basics for Non-Majors.
- This course must be completed prior to admission to the Surgical Technology 2 program as part of the Phase I requirements for admission.
- З. It is highly recommended that students complete SURG 103 prior to admission to the Surgical Technology program. SURG 103 will be required for admission beginning with the Fall 2004 curriculum.
- WRIT 121 is the minimum writing requirement. It may be replaced by WRIT 4 122, WRIT 131, or WRIT 132,
- 5. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- All REQUIREMENTS must be completed with a minimum 2.5 grade or better with the exception of MGMT 234 and WRIT 121 which must be completed with a minimum 2.0 grade.
- 7. All LIMITED CHOICE REQUIREMENTS must be completed with a minimum 2.0 grade.

SUGGESTED COURSE SEQUENCE

BIOL 201, BIOL 202, CHSE 117, and CHSE 120 must be completed prior to admission to the Surgical Technology program as part of the Phase I requirements for admission. It is highly recommended that students also complete SURG 103 prior to admission for Fall 2003. (Beginning Fall 2004, this will be a requirement.) Students should see course descriptions to find out when departments plan to offer pourses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

t.,	H	III (FALL)	IV (SPRING)
BIOL, 201.	BIOL 202	SURG 100	SURG 104
CHSE 117	SURG 103	SURG 101	SURG 123
CHSE 120	Lim.Ch.	SURG 121	SURG 124
	Lim.Ch.	SURG 122	Lim.Ch.

V (SUMMER) MGMT 234

WRIT 121 Lim.Ch. Lim Ch

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY DEFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONTUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRICE TO. THE SEMESTER THEY INTEND TO GRADUATE

HEALTH CAREERS

2003-2005 Catalog Lansing Community College

SURGICAL TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0216 (Effective Fall 2003 - Summer 2004)

A surgical technologist assists the surgeon in the operating room as a member of the surgical team. Some of the duties of the surgical technologist include preparing the operating room for the surgical procedure, preparing all sterile areas and instruments for use, assisting with sterile draping, gowning and gloving, and handing sterile instruments to the surgical assistant or surgeon. The surgical technologist asymptotic deprecipation of surgical assistant or surgeon's private office, a surgical outpatient clinic, and possibly in an emergency room or obstetrical delivery room. The surgical technologist may become certified through a national exam offered by the Association of Surgical Technologists. An associate degree in Surgical Technology is also available for career advancement opportunities. This program is accredited by the Accreditation Review Committee on Education in Surgical Technology (ARC-ST) and the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. Many of the courses for this program are open only to students officially admitted to the Surgical Technology Program.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2003/2004 academic year. For the most recent and complete information, interested students should contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREMENTS FOR ADMISSION TO THE SURGICAL TECHNOLOGY PRO-GRAM

For current information about admission requirements, students must contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREMEN	TOTAL: 43 CREDITS		
CODE	TITLE	*	CREDIT HOURS
BIOL 201	Human Anatomy (See Note 2)		.4
BIOL 202	Human Physiology (See Note 2)		4
CHSE 117	Health Law and Ethics (See Note 2)		2
CHSE 120	Medical Terminology (See Note 2)		4
SURG 100	Fundamental Surgical Tech		3
SURG 101	The Surgical Patient		2
SURG 103	Surgical Asepsis (See Note 3)		. 2
SURG-104	Operative Procedures		. 6
SURG 121	Applied Surg Techniques I		2
SURG 122	Applied Surg Techniques II		- 4
SURG 123	Applied Surg Techniques III		8
SURG 124	Applied Surg Techniques IV		, 2
9	MINIMUM TOTAL		43

NOTES:

- Current Basic Cardiac Life Support Certification (BCLS) is required throughout the program (EMSB 102 or American Red Cross "Provider C".) It is highly recommended that students be familiar with computer technology. It is also recommended that students enroll in CABS 103 Internet Basics for Non-Majors.
- This course must be completed prior to admission to the Surgical Technology program as part of the Phase I requirements for admission.
- It is highly recommended that students complete SURG 103 prior to admission to the Surgical Technology program. SURG 103 will be required for admission beginning with the Fall 2004 curriculum.
- 4. Students must complete all required courses with a minimum 2.5 grade or better.

SUGGESTED COURSE SEQUENCE

BIOL 201, BIOL 202, CHSE 117, and CHSE 120 must be completed prior to admission to the Surgical Technology program as part of the Phase I requirements for admission. It is highly recommended that students also complete SURG 103 prior to admission for Fall 2003. (Beginning Fall 2004, this will be a requirement.) Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1 * 1		II .	HI (FALL)	IV (SPRING)	
BIOL 201		BIOL 202	SURG 100	SURG 104	
CHSE 117	2	SURG 103	SURG 101	SURG 123	
CHSE 120		· · ·	SURG 121	SURG 124	
			SURG 122		÷

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS ARE RESPONSIBLE FOR COMPLETION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS ARE RESPONSIBLE FOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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HEAT & AIR COND/BUILDING MAINT ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0836 (Effective Fall 2003 - Summer 2008)

Students in this program may select either the Heating, Air Conditioning and Refrigeration specialty (HVAC/R) or the Building Maintenance specialty. HVAC/R technicians work on systems that control temperature, humidity, and air quality of enclosed spaces. They are required to design, install, service, and maintain the various types of equipment used to control human comfort, preservation of food products, critical medical supplies, and computer and mechanical processes in residential, commercial, industrial, and institutional environments. Building maintenance technicians must have most of these same skills in addition to being able to maintain the aesthetic and structural integrity of buildings. They may also be responsible for maintenance and upkeep of mechanical, plumbing, and electrical equipment, as well as grounds-keeping. They should be versatile enough to do routine painting, drywall, plastering, woodworking, pool maintenance, as well as some custodial work. Both of the above technicians must have a strong mechanical aptitude, be self-motivated, willing to accept challenges, and have a structured approach to problem solving. They should also have good communication skills, the ability to work well with others, and understand all aspects of the construction trade. Employment opportunities vary with each specialty,

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Construction and Maintenance Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 59 CREDITS		
CODE	TITLE	CREDIT H	HOURS	
BLDT 121	Residential Framing (See Note 1)	· ·	4 ·	
HVAC 100	Fundamentals of HVAC		Э	
HVAC 105	Sheet Metal Fabrication/Instal		. 2	
HVAC 110	Applied Electricity I		2	
HVAC 111	Applied Electricity II	1 - 1 - 1	2	
HVAC 120	Heating I	1	4	
HVAC 130	Air Conditioning I		4	
HVAC 211	Schematics	1 () () () () () () () () () (3	
HVAC 220	Heating II		4	
HVAC 221	Introduction to Hydronics		3	
HVAC 230	Air Conditioning II		4	
HVAC 240	Refrigeration I		4	
HVAC 241	Refrigeration II		4	
MATH 119	Investigations with Math		3	
OADM 275	Cultural Differences in Business		3	
PHYS 120	The Art of Physics		4	
SPCH 110	Oral Communication in the Workplace		3	
WRIT 124	Technical Writing		3	
100 N	-			

LIMITED CHOICE REQUIREMENTS TOTAL: 12-13 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 0 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

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CHOICE 2:		12-13 C	redits	
Subchoice 2	A: HVAC/R Technician			
BLDT 103	Structural Blueprint Reading			4
HVAC 201	Mechanical Code			4
HVAC 231	Heat Pump			3
HVAC 250	Pneumatic Control			З
HVAC 251	Fund of Direct Digital Control			.3
			1	
Subchoice 2	B: Building Maintenance Technician			
BLDT 101	Basic Woodworking (See Note 2)			2
BLDT 126	Interior Carpentry			4
BLDT 132	General Home Maintenance		1	2
ELTE 112	Basic Wiring Installation (See Note 3)			2
HORT 105	Pest/Problem Ornamental Plants			3
LAND 133	Home Landscape Maintenance			3
-	· · ·			

MINIMUM TOTAL

NOTES:

- Students who have experience in woodworking may be able to take an individual project lab course (BLDR 110 or BLDR 112) in place of BLDT 101.
- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Students who have taken HVAC 110 Applied Electricity I will be able to waive the prerequisite to ELTE 112 by contacting an advisor in the Construction and Maintenance Technologies Department for approval.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

	<u>,</u> µ	14	IV	
BLDT 121	HVAC 111	HVAC 220	HVAC 221	
HVAC 100	HVAC_120	HVAC 230	HVAC 241	
HVAC 105	HVAC 130	HVAC 240	PHYS 120	
HVAC 110	HVAC 211	OADM 275	Lim.Ch.2	
WRIT 124	MATH 119	SPCH 110	Lim.Ch.2	
Lim.Ch.2	Lim.Ch.2	Lim.Ch.2		

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HEATING & AIR CONDITION AND BIR SPACE ON CONTRACT OF CONTRACTON OF CONTRACT OF

HEAT & AIR COND/BUILDING MAINT CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0832 (Effective Fall 2003 - Summer 2008)

Students in this program may select either the Heating, Air Conditioning and Refrigeration specialty (HVAC/R) or the Building Maintenance specialty. Students selecting the HVAC/R option will receive instruction on how to install, service, and maintain heating, air conditioning, and refrigeration systems, including sheet metal and electrical, to prepare for entry-level positions. Students selecting the building maintenance option will learn through practical hands-on courses that will provide them with the necessary technical knowledge and skills needed for an entry-level position in the maintenance of residential and commercial buildings.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Construction and Maintenance Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREMEN	ITS	TOTAL:	24 CREDITS
CODE	TITLE		CREDIT HOURS
HVAC 100	Fundamentals of HVAC		3
HVAC 105	Sheet Metal Fabrication/Instal		2
HVAC 110	Applied Electricity I	1	. 2
HVAC 111	Applied Electricity II		2
HVAC 120	Heating I		4
HVAC 130	Air Conditioning I		4
HVAC 211	Schematics		3
HVAC 220	Heating II		4
	ICE REQUIREMENTS indicated number of credits from each C		-16 CREDITS below.
CHOICE 1:	HVAC Specialty (Choose one subchold	:e)	12-16 Credits
Subchoice 1A	\: HVAC/R Technician		
HVAC 201	Mechanical Code	9 - P	4
HVAC 230	Air Conditioning II		4
HVAC 240	Refrigeration I		4
HVAC 241	Refrigeration II		4
Subchoice 18	3: Building Maintenance Technician		
BLDT 101	Basic Woodworking (See Note 1)	•	2
BLDT 121	Residential Framing		.4
BLDT 126	Interior Carpentry		. 4
BLDT 132	General Home Maintenance		2
	MINIMUM TOTAL	5 A.	36

NOTE:

 Students who have experience in woodworking may be able to take an individual project lab course (BLDR 110 or BLDR 112) in place of BLDT 101.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

Subchoice 1A: HVAC/R Technician

- I		, #G · ·	14	
HVAC 100	HVAC 111	HVAC 201	HVAC 241	
HVAC 105	HVAC 120	HVAC 220		
HVAC 110	HVAC 130	HVAC 230		
	HVAC 211	HVAC 240		1. I.

Subchoice 1B: Building Maintenance Technician

1	1	- 1 W	IV
HVAC 100	HVAC 111	BLDT 101	BLDT 126
HVAC 105	HVAC 120	BLDT 121	BLDT 132
HVAC 110	HVAC 130	HVAC 220	
1. A.	HVAC 211		

STREEMTS ARE RESPONSIBLE FOR COMPLETING ALL REQURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER THICK IT HE SEMESTER THEY INTEND TO GRADUATE.

HEAVY EQUIPMENT OPERATOR CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 1028 (Effective Fall 2003 - Summer 2008)

A heavy equipment operator is responsible for the safe and efficient operation of a variety of equipment used at construction and road building sites. To be successful the operator should be able to operate all types of equipment. He/she must be able to inspect and operate the equipment in a manner that ensures compliance with applicable safety regulations. Additionally the operator must be able to read surveyor stakes, perform minor repairs, complete math calculations and reports, and be sufficiently knowledgeable about soil types to ensure that completed work will meet intended expectations. An operator must have good eyehand coordination and must be able to work with a minimum of supervision. Attention to detail and a sense of responsibility are required.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Transportation Technologies Department located at the LCC Aviation Center, 3428 W. Hangar Drive, Lansing, MI 48906, telephone number (517) 267-5880.

REQUIREMENTS		TOTAL: 35 CREDITS
CODE	THLE	CREDIT HOURS
EMSA 100	First Aid and CPR	2
GRET 221	Landforms/Soil Systems in GIS	. 3
HEOT 100	Equipment Introduction	. 5
HEOT 110	Part 10 MIOSHA	1
HEOT 120	Backhoe Operator	3
HEOT 121	Excavator Operator	3
HEOT 122	Wheel Loader Operator	2
HEOT 123	Forklift Operator	. 1
HEOT 130	Motor Grader Operator	5
HEOT 131	Bulldozer Operator	3
HEOT 132	Trenching and Gradework	3.
WELD 100	Combination Welding	. 4
•	MINIMUM TOTAL	35

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	lt .	111	
EMSA 100	HEOT 120	GRET 221	
HEOT 100	HEOT 121	HEOT 130	
HEOT 110	HEOT 122	HEOT 131	
WELD 100	HEOT 123	HEOT 132	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

- College

HEAVY EQUIPMENT REPAIR TECH ASSOCIATE IN APPLIED SCIENCE

Curriculum Code: 1055 (Effective Fall 2003 - Summer 2008)

A heavy equipment repair technician is responsible for the efficient, timely, and proper repair on a variety of heavy-duty construction and road equipment. The technician must be knowledgeable in repair of several systems used in heavy equipment including diesel engines, fuel systems, powertrain, electronics, and hydraulics. The technician must be able to diagnose problems, plan repairs including required labor and parts, and then complete the repair. Repairs must be completed with consideration to safety, MIOSHA, and environmental gluidelines. A repair technician must be able to work with a minimum of supervision as repairs may be made off site. Attention to detail and a sense of responsibility are required.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Transportation Technologies Department located at the LCC Aviation Center, 3428 W. Hangar Drive, Lansing, MI 48906, telephone number (517) 267-5880.

REQUIREME	INTS (See Note 1)	τοτα	L: 48 CRE	DITS
CODE	TITLE		CREDIT	HOURS
AUTO 100	Auto Service I			3
AUTO, 160	Auto Heat & Air Conditioning	1		-3
HEOT 100	Equipment Introduction			5
HERT 100	Heavy Equipment Rebuild			6
HERT 101	Heavy Equipment Electronics			5
HERT 102	Equipment Hydraulics			6
HERT 1.03	Diesel Fuel System			4
HERT 104	Equipment Powertrain			5
HERT 105	Equipment Service Writing		1.5	4
WELD 100	Combination Welding	÷		4
WRIT 124	Technical Writing			- 3
		TOTAL	16-20 CRI	EDITS
	e indicated number of credits from ea	•		

CHOICE 1: General Education Core Areas 13-16 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area	3
	Global Perspectives and Diversity Core Area	3-4
	Mathematics Core Area	. 3-4
	Science Core Area	4-5
	Writing Core Area (See Note 2)	0
CHOICE 2:		3-4 Credits
HERT 210	Heavy Equip Internship	3
MGMT 150	Managing Customer Relations	. 3

NOTES:

WELD 101

1. Students must obtain department approval from the Transportation Technologies Department prior to registering for HERT and HEOT courses.

Advanced ARC Welding

MINIMUM TOTAL

 Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area. SUGGESTED COURSE SEQUENCE

This program is presented in a lockstep format. It is therefore essential that, prospective students consult with a Transportation Technologies Department advisor to plan their course sequence so that they may complete their education and training in a timely manner.

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HEOT 100 WRIT 124	WELD 100	HERT 105			
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AUTO 160				Sec. Social	
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Curriculum Code: 1041 (Effective Fall 2003 - Summer 2008)

A heavy equipment repair technician is responsible for the efficient, timely, and proper repair on a variety of heavy duty construction and road equipment. The technician must be knowledgeable in the repair of several systems used in heavy equipment. The technician must be able to diagnose problems, plan repairs including required labor and parts, and then complete the repair with consideration to safety, MIOSHA, and environmental factors. A repair technician must be able to work with a minimum of supervision and attention to detail.

REQUIREMENTS (See Note 1)		1977 - C	TOTAL: 42 CREDITS
CODE	TITLE	1 - 181 -	CREDIT HOURS
AUTO 100	Auto Service I	the second second	а.
HEOT 100	Equipment Introduction	- 1	5
HERT 100	Heavy Engine Rebuild		6
HERT 101	Heavy Equipment Electronics	1967	5
HERT 102	Equipment Hydraulics	-	- 6 C
HERT 103	Diesel Fuel System		4
HERT 104	Equipment Powertrain		5
HERT 105	Equipment Service Writing	an she ar	4
WELD 100	Combination Welding		4
		1.1.1.1.1.1	
· · ·	MINIMUM TOTAL		42
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NOTE: 1. Students must obtain department approval from the Transportation Technologies Department prior to registering for HERT and HEOT courses.

SUGGESTED COURSE SEQUENCE

	Iŧ	iii	<u>الا</u>	
AUTO 100 HEOT 100	HERT 100 HERT 101 WELD 100	HERT 102 HERT 104 HERT 105	HERT 103	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INSTATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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HOTEL-MOTEL/FOOD MANAGEMENT ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0711 (Effective Fall 2003 - Summer 2008)

A hotel-motel or food service manager directs and coordinates operations such as housekeeping, food service, accounting, and guest room services in facilities. Graduates of this program are prepared to work in hotels, motels, and other lodging facilities in a variety of environments. A food management specialist serves the public's need for meals away from home through their particular establishments food and service. Expansions of chains and franchises have opened opportunities for advancement. Graduates of this program are prepared to work in restaurants, clubs, resorts, institutional food service, and similar establishments. Not all courses an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREMEN	ITS	1	TOTAL: 43 CREDITS
CODE .	TITLE .	-	CREDIT HOURS
ACCG 101	Accounting Info for Managem	ent	3
CABS 110	Intro to Microsoft Office		. 3
HMFS 101	Intro Hospitality/Tourism		3
HMFS 110	Sanitation and Safety		· ′ 3
HMFS 131	Food and Beverage Manager	nent	• 4
HMES 134	Nutrition and Healthy Eating		. 3
HMFS 190	Internship		. 3.
HMFS 204	Hospitality HR Management		. 3
HMFS 205	Hospitality Management		3
HMFS 215	Hospitality Sales/Marketing	1 N N.	3
HMFS 232	Food and Labor Cost Control	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	. 3
MGMT 150	Managing Customer Relation	s 110	3.
SPCH 110	Oral Communic in the Workp	lace	. 3
WRIT 127	Business Writing	(1,0,0,1,0,0,1)	· 3
	we also a fille		
LIMITED CHC	ICE REQUIREMENTS	T	OTAL: 28-33 CREDITS
Complete the	indicated number of credits fro	m <u>each</u> CHO	ICE listed below.
CHOICE 1:	General Education Core An	eas	10-13 Credits
(See General	Education Core Requirements	for informatic	in on how to fulfill these
	Core area proficiency exams,		
regunernerne.	core area prenereney exame,	more appro	printed, and predicipite for

each core area.)	
Communication Core Area (See Note 1)	0
Global Perspectives and Diversity Core Area	3-4
Mathematics Core Area	3-4
Science Core Area	4-5
Writing Core Area (See Note 1)	Q

HOSPITALITY

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CHOICE 2:	Specialization (Choose one subch	oice)	18-20 Cr	edits
Subchoice 2	A: Hotel-Motel Management Special	list		
.HMFS 203	Hospitality Law			. 3
HMFS 206	Rooms Division Management		A	3
HMFS 229	Convention/Meeting Management	· · · · ·		3
HMFS 240	Current Topics in Hospitality			3
MGMT 228	Organizational Behavior			3
MGMT 239	Time and Stress Management		N	з
	1			
Subchoice 2	B: Food Management Specialist			
HMFS 132	Food Production	· · · · ·		4
HMFS 135	Hospitality Purchasing			3
HMFS 170	Menu Management and Design			з
HMFS 203	Hospitality Law			з
HMFS 254	Mixology	· ·		4
MGMT 228	Organizational Behavior			63
and the second				
Subchoice 2	C: Culinary Arts Specialist			<i>i</i> .
HMFS 132	Food Production			4
HMFS 135	Hospitality Purchasing			З
HMFS 137	Catering Management			4
HMFS 170	Menu Management and Design			-3
HMFS 275	Bakery Products	`.		2
HMFS 280	Food Decorating Garnishes			З
	MINIMUM TOTAL			71

NOTE:

- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- The Gourmet series courses (HMFS 260-HMFS 274) may be used as a substitution option for Subchoices 2A, 2B, or 2C with the approval of the academic team leader.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

ł	B	11	۱۷	
CABS 110	ACCG 101	HMFS 134	HMFS 232	
HMFS 101	HMFS 131	HMFS 190	Lim.Ch.	
HMFS 110	HMFS 204	HMFS 205	Lim.Ch.	
SPCH 110	MGMT 150	HMFS 215	Lim.Ch.	
Lim.Ch.	WRIT 127	Lim.Ch.	Lim.Ch.	
Lim.Gh.	Lim.Ch.	Lim.Ch.		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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ADDICTIONS CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0239 (Effective Fall 2003 - Summer 2008)

Work in substance abuse requires individuals with specialized knowledge and skills. The Certificate of Achievement is designed for individuals wanting an education with a focus on skills and knowledge related to prevention and treatment of substance abuse. A supervised two-semester practicum within a substance abuse agency is required. The curriculum is aligned with the standards set forth by the National Organization for Human Service Education and the Council for Standards in Human Service Education. The course work meets the educational component for certification as a Certified Addictions Counselor Level-I (CAC-I) of the Michigan Certification Board for Addiction Professionals (MCBAP), www.mcbap.org.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Health and Human Service Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

REQUIREMEN	NTS	TOTAL: 33 CREDITS
CODE	TITLE	CREDIT HOURS
HUSE 100	Introduction to Human Services	· 3
HUSE 101	Personal Dimensions/Human Serv	2
HUSE 112	Understanding/Substance Abuse	. 3
HUSE 240	Substance Abuse: Spec Pop/Adol	3
HUSE 242	Chemically Dependent Family	. 3
HUSE 245	Addiction: Preven/Treatment	. 4
HUSE 282	Human Services Practicum I (See Note 1)	4
HUSE 284	Human Services Practicum II	4
SOWK 203	Social Work Interviewing	3
WRIT 121	Composition I	. 4
	MINIMUM TOTAL	33

NOTES:

- There is an application process and guidelines for admission into the practicum component. Students should meet with a program advisor to develop a plan to meet all practicum prerequisites. Applications are due by April 1 for admission to Fall practicum. Application packets with current requirements are available beginning in January from the Health and Human Service Careers Department, Gannon Vocational-Technical: Center, Room 1750. Contact the program advisor for further information.
- All required HUSE and SOWK courses must be completed with a minimum 2.5 grade or better.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or courselor for help with adjustments.

I	B -	III	ŧV ;	
HUSE 100	HUSE 240	HUSE 282	HUSE 284	
HUSE 101	HUSE 242			
HUSE 112	SOWK 203	1	÷	
HUSE 245	WRIT 121			

ADDICTIONS MCBAP CERT PREP

Curriculum Code: 1015 (Effective Fall 2003 - Summer 2008)

Work in substance abuse requires individuals with specialized knowledge and skills. The certificate of completion is designed for professionals with formal education/training and who wish to pursue a career as an addiction counselor. This curriculum meets the educational ethics component for certification as a Certified Addictions Counselor Level-I (CAC-I) of the Michigan Certification Board for Addiction Professionals (MCBAP), www.mcbap.org.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Health and Human Service Careers Department, Gannon Vocational-, Technical Center, Room 1750, telephone number (517) 483-1410.

REQUIREME	ENTS	TOTAL: 13 CREDITS
CODE	TITLE	CREDIT HOURS
HUSE 112	Understanding/Substance Abuse	
HUSE 240	Substance Abuse: Spec Pop/Adol	
HUSE 242	Chemically Dependent Family	3
HUSE 245	Addiction: Preven/Treatment	4
	MINIMUM TOTAL	13

NOTES:

- Students should meet with a program advisor prior to beginning this curriculum.
- 2. All required HUSE courses must be completed with a 2.5 minimum grade or better.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	IF .	1	·.	5	1.1	
HUSE 112 HUSE 245	HUSE 240 HUSE 242				-	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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www.lcc.edu

GERONTOLOGY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0152 (Effective Fall 2003 - Summer 2008)

The certificate program consists of courses in aging and human services. It is designed for persons who wish to obtain knowledge and skills to work with senior adults. The curriculum is aligned with the standards set forth by the National Organization for Human Service Education and the Council for Standards in Human Service Education. Two semesters of field placement are included. It takes four semesters to complete this certificate, not including summers.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Health and Human Service Careers Department, Gannon Vocational-Technical Center, Boom 1750, telephone number (517) 483-1410.

REQUIREME	NTS	TOTAL: 29	CREDITS
CODE	TITLE	CR	EDIT HOURS
GERO 100	Introduction to Human Aging		. 3
GERO 101	Programs/Services for Aging		3
GERO 203	Physical/Mental Health Aging		3
HUSE 100	Introduction to Human Services		3
HUSE 101	Personal Dimensions/Human Serv		2
HUSE 282	Human Services Practicum I (See Note 1)		4
HUSE 284	Human Services Practicum II		4
SOWK 203	Social Work Interviewing	1. A 1.	3
WRIT 121	Composition I		4

LIMITED CHOICE REQUIREMENTS TOTAL: 3 CREDITS Complete the indicated number of credits from <u>each</u> CHOICE listed below.

CHOICE 1: Professional Related Courses (See Note 2) 3 Credits MINIMUM TOTAL 32

NOTES:

- There is an application process and guidelines for admission into field placement/practicum. Students should meet with a program advisor to assist in developing a plan to meet field placement prerequisites. Field placement applications are due by April 1 for admission to Fall field placement. Application packets with current requirements are available beginning in January from the Health and Human Services Department, Gannon Vocational-Technical Center, Room 1750. Contact a program advisor for further information.
- Students may choose from any GERO-prefix courses numbered GERO 128-199. A maximum of 3 credits of GERO 191-Seminar: Special Subjects may be used to satisfy this requirement.
- All required GERO, HUSE, and SOWK courses must be completed with a minimum 2.5 grade or better for this certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	н , :	8	ĮV .
GERO 100	GERO 203	HUSE 282	HUSE 284
GERO 101	SOWK 203	Lim. Ch.	÷
HUSE 100	WRIT 121		
HUSE 101			· · ·

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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HUMAN SERVICES CAREERS903-2005 Catalog Lansing Community

College

HUMAN SERVICES ASSOCIATE IN APPLIED SCIENCE

Curriculum Code: 0915 (Effective Fail 2003 - Summer 2008)

The trained Human Services employee assists professional staff in social service and human services agencies. Students may choose from four areas of specialization. 1) The Addiction Specialization is designed to meet the educational component for certification as a Certified Addiction Counselor Level-I (CAC-I) of the Michigan Certification Board for Addiction Professionals (MCBAP), www. mcbap.org. Individuals are prepared for entry level work in substance abuse agencies with focus on prevention or treatment. 2) Family Specialization focuses on various family situations, and prepares individuals to work in a wide range of family and youth agencies. 3) In the Gerontology Specialization the process of aging is studied, and prepares individuals for work in many capacities with older adults and their families. 4) The Social Work Transfer Option provides students with a concentrated education in human services. A supervised consecutive two-semester practicum within the area of specialization provides work-site experience. The curriculum is aligned with the standards set forth by the National Organization for Human Service Education and the Council for Standards in Human Service Education. Some transfer opportunities exist, however not all courses in this program transfer to all colleges. Students planning to transfer should see a program advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Otferings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Health and Human Service Careers Department, Gannon Vocational-Technical Center, Room 1750, telephone number (517) 483-1410.

REQUIREME	INTS	TOTAL: 41 CREDITS
CODE	TITLE	CREDIT HOURS
BIOL 145	Introductory Anat & Physiology	4
GERO 100	Introduction to Human Aging	3
HUSE 100	Introduction to Human Services	3
HUSE 101	Personal Dimensions/Human Serv	2
HUSE 112	Understanding/Substance Abuse	3
HUSE 282	Human Services Practicum I (See Note	1) 4
HUSE 284	Human Services Practicum II	· · 4
PSYC 200	Introduction to Psychology	4
SOCL 120	Introduction to Sociology	4
SOWK 203	Social Work Interviewing	. 3
SPCH 120	Dynamics of Communication	3
WRIT 121	Composition I	. 4
	OICE REQUIREMENTS indicated number of credits from each CH	TOTAL: 24-26 CREDITS

CHOICE 1: General Education Core Areas 3-4 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

12	Communication Core Area (See Note 2)	0
	Global Perspectives and Diversity Core Area (See Note 2)	0
	Mathematics Core Area (See Note 3)	3-4
	Science Core Area (See Note 2)	0
	Writing Core Area (See Note 2)	0
CHOICE 2:	Humanities (See Note 4) 80	Credits
CHOICE 3:	English Composition 4 (Credits
ENGL 122	Writing: Literature and Ideas	4
WRIT 122	Composition II	4

CHOICE 4:	Specialization (Choose one subcharce)		9-10 Credits
Subchoice 4	A: Addictions		
HUSE 240	Substance Abuse: Spec Pop/Adol		. 3
HUSE 242	Chemically Dependent Family		. 3
HUSE 245	Addiction: Preven/Treatment		. 4
	·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Subchoice 4	B: Family (See Note 5)	· · ·	
SOCL 254	Marriage and Family	·	· 3
SOCL 260	Race and Ethnicity	·.	3.
Subchoice 4	C: Gerontology (See Note 6)		
.GERO 101	Programs/Services for Aging		3
GERO 203	Physical/Mental Health Aging		3
	· · · · · · · · · · · · · · · · · · ·		
Subchoice 4	D: Social Work Transfer		
POLS 120	American Political System		· 4
SOWK 101	Introduction to Social Work		3
SOWK 205	Social Welfare		3
			· · ·

MINIMUM TOTAL

NOTES

- Students need to meet with the Program Advisor to assist in planning their class schedules and site placement for practicum. Practicum application packets are available from the Health and Human Service Career's Department, Gannon Vocational-Technical Center, Room 1750, beginning in January. Applications are due by April 1 for admission into fall practicum.
- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Students may choose from the Math Core courses. MATH 112 is recommended for students planning to transfer.
- See the MACRAO Transfer Agreement in the Transfer Information section for appropriate humanities courses.
- 5. An additional 3 credits from Human Services (HUSE) are required. Students must consult with the Program Advisor for department approved courses.
- An additional 3 credits from Gerontology (GERO) are required. Students must consult with the Program Advisor for department approved courses. Up to three credits of GERO 191 seminar course(s) are acceptable.
- 7. All HUSE, GERO, and SOWK courses used toward this degree must be completed with a minimum 2.5 grade or higher.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or courselor for help with adjustments.

	 11		IV	
GERO 100	SOWK 203	BIOL 145	HUSE 284	
HUSE 100	WRIT 121	HUSE 282	PSYC 200	
HUSE 101	Lim.Ch.1	SPCH 120	Lim.Ch.2	
HUSE 112	Lim.Ch.2	Lim.Ch.3	Lim.Ch:4	
SOCL 120	Lim.Ch.4	Lim.Ch.4	<i>a</i> .	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCLMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

www.lcc.edu

CNC PROGRAMMING ASSOCIATE IN APPLIED SCIENCE DEGREI

Curriculum Code: 0266 (Effective Fall 2003 - Summer 2008)

Computer numerical control programmers are responsible for writing programs that are used to control automated manufacturing systems and equipment. The programmer is primarily concerned with taking engineering specifications and developing procedures and programmed instructions to manufacture requested components. The CNC programmer must be knowledgeable in many areas such as computer systems, CAD, CAM, manufacturing processes, machine tools and metallurgy. Strong math, communication and problem-solving skills are needed in order to manage the large and diverse amount of information that must be brought together in order to successfully write programs. Because of their many skills, CNC programmers are employed in all industries, including aerospace, textile, agriculture, electronics, and manufacturing.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Manufacturing and Land Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 64 CREDITS	
CODE	TITLE	CREDIT N	OURS
CADD 101	Mechanical Drafting/Basic CAD		4
CADD 131	AutoCAD Basic 2-D		4
CADD 242	Unigraphics Basic		4
CNCP 110	Foundations of CNC Programming	• · · · ·	- 4
CNCP 130	Machine Controls and Setup		4
MACH 105	Machine Tool Survey		3
MACH 110	Machine Tool Technology I	· · ·	4
MACH 111	Machine Tool Technology II		4
MACH 120	Effect Use Machinery Handbook	· ·	4
MACH 135	Metallurgy and Heat Treat		.4
MACH 140	Tooling Theory and Practices	2 · · · · ·	4
MATH 114	Technical Math I		4
MATH 115	Technical Math II		4
MGMT 234	Diversity in the Workplace	100 B	3
PHYS 120	The Art of Physics		4
SPCH 110	Oral Communication in the Workplace	1. Sec. 1. Sec. 1.	- 3
WRIT 124	Technical Writing		3
		TOTAL: 7-8 CRE	DITS
Complete the	indicated number of credits from each CH		

CHOICE 1:		Credits
	Education Core Requirements for information on how to fulfi	
requirements.	Core area proficiency exams, where appropriate, are available	able for
each core are	a.)	
	Communication Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area (See Note 1)) 0
. · · · · ·	Mathematics Core Area (See Note 1)	0
	Science Core Area (See Note 1)	0
	Writing Core Area (See Note 1)	0
CHOICE 21	Draffing 3-4	Credits

CHOICE 2:	Drafting	3-4 Greans
CADD 104	Descriptive Geometry	. 4
CADD 110	Industrial Blueprint Reading	З
CNCP 101	PC Applications for Technology	3
MFGM 250	Manufacturing Internship	3
CHOICE 3:	Computer-Aided Manufacturing	4 Credits
CNCP 200	Unigraphics NC	4
CNCP 210	Mastercam	4

MINIMUM TOTAL

NOTE:

- 1. Students completing REOUIREMENTS have fulfilled the requirements for this
 - Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	,	111 -	ŧ٧	
CADD 101	CADD 131	CADD 242	SPCH 110	
MACH 105	CNCP 110	CNCP 130	WRIT-124	
MACH 120	MACH 110	MACH 135	Lim.Ch.	
MATH 114	MACH 111	MACH 140	Lim.Ch.	1.1
MGMT 234	MATH 115	PHYS 120		
			1	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE, THAT IS INITIATED WHEN'S STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER THEY INTEND TO THE SEMESTER THEY INTEND TO GRADUATE.

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INDUSTRIAL TECHNOLC **ASSOCIATE IN APPLIED SCIENCE**

Curriculum Code: 0110 (Effective Fall 2003 - Summer 2008)

Industrial technology is the study of a variety of technologies used in today's industry. Physical and mental skills are required including mechanical skills, problem-solving abilities, and dexterity. Employment opportunities are with industries that have a variety of work processes and/or trades.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Manufacturing and Land Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 55 CREDIT	S	
	CODE	ŢITLE	CREDIT HOUR	₹S
	CADD 110	Industrial Blueprint Reading		З
	CNCP 110	Foundations of CNC Programming	1	4
	EMSA 100	First Aid and CPR		Ż
	HVAC 1:10	Applied Electricity I	4 A.	2
	MACH 100	Manufacturing Processes		4
	MACH 105	Machine Tool Survey	1. A 1. A 1. A 1. A 1. A 1. A 1. A 1. A	З
	MACH 120	Effect Use Machinery Handbook	1	4
	MACH 135	Metallurgy and Heat Treat	N 1	4
	MATH 114	Technical Math I		4
	MATH 115	Technical Math II		4
	MFGM 101	Industrial Hydraulics	1.1.1	4
	MGMT 234	Diversity in the Workplace		З
	PHYS 120	The Art of Physics		4
	SPCH 110	Oral Communication in the Workplace		3
	WELD 100	Combination Welding	3	4
	WRIT 124	Technical Writing		З

LIMITED CHOICE REQUIREMENTS TOTAL: 7-8 CREDITS Complete the indicated number of credits from each CHOICE listed below.

(See General	General Education Core Areas Education Core Requirements for information on how to Core area proficiency exams, where appropriate, are a.)	
	Communication Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area (See No	(te 1) 0
100 C	Mathematics Core Area (See Note 1)	· 0
· · ·	Science Core Area (See Note 1)	· 0
	Writing Core Area (See Note 1)	· ′ 0
CHOICE 2:	Technical Related	7-8 Credits
CADD 101	Mechanical Dratting/Basic CAD	4
CADD 131	AutoCAD Basic 2-D	4
CNCP 101	PC Applications for Technology	.3
MACH 140	Tooling Theory and Practices	4
MACH 210	Prin Electric Discharge Mach	4
· · ·	MINIMUM TOTAL	62

NOTE:

Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

¥	μ	. 19	IV	
HVAC 1	10 CADD	110 MACH	1 135 C	NCP 110
MACH 1	IOO MACH	105 MFGN	VI101 E	MSA 100
MATH 1	14 MACH	120 PHYS	3 120 👘 M	IGMT 234
WELD 1	MATH	115 SPCF	1110 Li	im.Ch.
	WRIT	24 Lim.C	h.	•
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NDUSTRIAL TECHNOLOG CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0150 (Effective Fall 2003 - Summer 2008)

This certificate provides students with a basic understanding of a variety of technologies to enhance the theory skills they already possess.

REQUIREMENTS		TOTAL: 21 CREDITS	
CODE	TITLE	CREDIT HOURS	
CADD 110	Industrial Blueprint Reading	3	
EMSA 100	First Aid and CPR	2	
MACH 100	Manufacturing Processes	. 4	
MACH 120	Effect Use Machinery Handbook	4	
MACH 135	Metallurgy and Heat Treat	4	
MATH 114	Technical Math I	4	
LIMITED CH	OICE REQUIREMENTS	TOTAL: 12 CREDITS	
Complete the	indicated number of credits from each C	HOICE listed below.	
CHOICE 1:	Related Technology	12 Credits	
CNCP 101	PC Applications for Technology	3	
MACH 105	Machine Tool Survey	3	
MFGM 101	Industrial Hydraulics	. 4	
MFGM 110	Machine Maintenance I	. 4	
PHYS 200	Applied Physics	4	
WRIT 124	Technical Writing	3	
· .	MINIMUM TOTAL	33	
SUGGESTEI	COURSE SEQUENCE		
ł	u	· · · · · · · · · · · · · · · · · · ·	
CADD 110	EMSA 100	1	

ţ	ţ1		 	
CADD 110	EMSA 100			
MACH 100	MACH 120	1.5.5		
MATH 114	MACH 135			
Lim.Ch.	Lim.Ch.			
Lim.Ch.	Lim.Ch.			

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL RECURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE ON CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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MACHINE MAINTENANCE ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0173 (Effective Fall 2003 - Summer 2008)

Machine maintenance technicians are involved with the repair, maintenance, and installation of industrial equipment. They repair the machinery of industry, solving mechanical problems. The skills necessary for this type of work are many and varied: critical thinking, problem solving, mechanics, math and physics are but a few. Maintenance téchnicians also need to know how to diagnose hydraulic problems, perform preventive maintenance procedures, and be able to work well with others. They may have different titles, but the work is the same.

PREREQUISITES

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Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Manufacturing and Land Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREMEN	NTS	TOTAL: 63 CREDITS
CODE	TITLE	CREDIT HOURS
CADD 110	Industrial Blueprint Reading	3
EMSA 100	First Aid and CPR	2
MACH 105	Machine Tool Survey	. 3
MACH 110	Machine Tool Technology I	4
MACH 111	Machine Tool Technology II	4
MACH 120	Effect Use Machinery Handbook	4
MACH 135	Metallurgy and Heat Treat	4
MATH 114	Technical Math I	. 4
MATH 115	Technical Math II	. 4
MFGM 101	Industrial Hydraulics	4
MFGM 110	Machine Maintenance I	. 4
MFGM 111	Machine Maintenance II	4
MFGM 120	Industrial Presses	4
MFGM 125	Rigging	2
MGMT 234	Diversity in the Workplace	
PHYS 120	The Art of Physics	4
SPCH 110	Oral Communication in the Workplace	. 3
WBIT 124	Technical Writing	- 3
VVDHI 124	recinical whiting	
Complete the CHOICE 1:	DICE REQUIREMENTS indicated number of credits from each C General Education Core Areas	0 Credits
(See General	Education Core Requirements for information	ation on how to fulfill these
requirements.	Core area proficiency exams, where ap	propriate, are available for
each core are	a.)	
	Communication Core Area (See Note 1	
	Global Perspectives and Diversity Core	
	Mathematics Core Area (See Note 1)	0
· · ·	Science Core Area (See Note 1)	0
	Writing Core Area (See Note 1)	· 0
	4 · · · · ·	
CHOICE 2:	Electrical Technology	2-3 Credits
ELTE 110	Practical Electricity	3
HVAC 110	Applied Electricity I	. 2
•	$e^{-\lambda t}$	
CHOICE 3	Technical Related	3-4 Credits
MACH 100	Manufacturing Processes	4
MACH 140	Tooling Theory and Practices	4
MFGM 102	Industrial Pneumatics	3
WELD 100	Combination Welding	4
e de la deserva		
÷	MINIMUM TOTAL	- 68

NOTE:

 Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DECIREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

I	ŧ	ľ.	IV	
MACH 105	MACH 110	CADD-110	MFGM 111	
MATH 114	MACH 120	EMSA 100	MFGM 120	
MFGM 101	MATH 115	MACH 111	MFGM 125	
WBIT 124	MFGM 110	MACH 135	MGMT 234	
Lim.Ch.2	SPCH 110	Lim.Ch.3	PHYS 120	

College

MACHINE REPAIR CERTIFICATE OF ACHIEVEMEN

Curriculum Code: 0147 (Effective Fall 2003 - Summer 2008)

This program provides technical knowledge and skills in the adjustment, maintenance, part replacement, and repair of tools, equipment and machines. It prepares an individual for an entry-level position.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequlsite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Manufacturing and Land Technologies Department; Gannon Vocational Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 30 CREDITS
CODE	TITLE	CREDIT HOURS
CADD 110	Industrial Blueprint Reading	3
EMSA 100	First Aid and CPR	2
MACH 105	Machine Tool Survey	3
MATH 114	Technical Math I	
MFGM 101	Industrial Hydraulics	4
MFGM 110	Machine Maintenance I	4
MFGM 111	Machine Maintenance II	4
MFGM 125	Rigging	2
WELD 100	Combination Welding	4
	MINIMUM TOTAL	30

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

£:,	I			
CADD 110	EMSA 100	 	 	
MACH 105	MEGM 101			1
MATH 114	MFGM 111			
MFGM 110	WELD 100			
MFGM 125	•			

MILLWAIGHT CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0154 (Effective Fall 2003 - Summer 2008)

A millwright installs, maintains and cares for mechanical equipment in a plant, factory or mill. This program prepares an individual for an entry-level position.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Manufacturing and Land Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREME	INTS	TOTA	L: 31 CRED	ITS
CODE	TITLE,		CREDIT HO	URS -
BLDT 103	Structural Blueprint Reading			4
EMSA 100	First Aid and CPR			2
MACH 105	Machine Tool Survey			3
MACH 135	Metallurgy and Heat Treat			4
MATH 114	Technical Math I	\$		4
MFGM 101	Industrial Hydraulics			4
MFGM 110	Machine Maintenance I			4
MFGM 111	Machine Maintenance II	. ,		4
MFGM 125	Rigging		× .	2

LIMITED CHOICE REQUIREMENTS

TOTAL: 3-4 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	Building Related	3-4 Credits
BLDT 100	Introduction to Construction	3
BLDT 121	Residential Framing	4
CIVL 120	Surveying	4
		· **

MINIMUM TOTAL

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example; those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

t.	R.	朝		
EMSA 100	BLDT 103	MFGM 111	-	
MACH 105	MACH 135	Lim.Ch.		1
MATH 114	MEGM 110		-	
MFGM 101	MFGM 125			

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MACHINIST TOOLMAKER ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0199 (Effective Fall 2003 - Summer 2008)

A machinist toolmaker is involved with the manufacture of machined components relating to various kinds of industry. There are no limits to the variety of projects a machinist toolmaker may be involved with: making prototypes, tools for production, engineering changes on parts, etc. This work involves critical thinking, decision making, math skills, and working cooperatively with others. Machinist toolmakers are capable of operating all the various machine tools in a machine shop. They also must be able to interpret mechanical drawings, calculate mathematical data, and work with others to solve the various problems related to projects going on in the shop at any given time. A machinist toolmaker may be employed in any manufacturing facility.

PREREQUISITES

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Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Manufacturing and Land Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 68 CREDITS		
CODE	TITLE	CREDIT HOURS		
CADD 110	Industrial Blueprint Reading	. 3		
CNCP 101	PC Applications for Technology	- 3		
CNCP.110	Foundations of CNC Programming	4		
EMSA 100	First Aid and CPR	2		
MACH 105	Machine Tool Survey	-3		
MACH 110	Machine Tool Technology I	, 4		
MACH 111	Machine Tool Technology It	4		
MACH 112	Machine Tool Technology III	4		
MACH 120	Effect Use Machinery Handbook	. 4		
MACH 130	Die Construction	- 4		
MACH 135	Metallurgy and Heat Treat	4		
MACH 140	Tooling Theory and Practices	- 4		
MACH 210	Prin Electric Discharge Mach	. 4		
MATH 114	Technical Math I	. 4		
MATH 115	Technical Math II	. 4		
MGMT 234	Diversity in the Workplace	3		
PHYS 120	The Art of Physics	4		
SPCH 110	Oral Communication in the Workplace	3		
WRIT 124	Technical Writing	· 3		

LIMITED CHOICE REQUIREMENTS TOTAL: 0 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 0 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	MINIMUM TOTAL		68
	Writing Core Area (See Note 1)		0
· · ·	Science Core Area (See Note 1)	~	0.
	Mathematics Core Area (See Note 1)		Û
	Global Perspectives and Diversity Core Area (See Note 1)		0
	Communication Core Area (See Note 1)		0

NOTE:

 Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

	1. Sec. 1. Sec		
I	u .	<u> </u>	īv
EMSA 100	CADD 110	CNCP 101	CNCP 110
MACH 105	MACH 110	MACH 111	MACH 112
MACH 120	MACH 135	MACH 140	MACH 130
MATH 114	MATH 115	MGMT 234	MACH 210
SPCH 110	WRIT 124	PHYS 120	1.2

TOOL AND DIE MAKER CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0141 (Effective Fall 2003 - Summer 2008)

This program provides technical knowledge and skills to operate machine tools used in the forming of metal components, as well as the fabrication of special tools, dies, jigs, and fixtures used in cutting, working and finishing metal components. It prepares an individual for an entry-level position.

REQUIREME	NTS	TOTAL: 36 CREDITS
CÓDE	TITLE	CREDIT HOURS
CADD 110	Industrial Blueprint Reading	- 3
EMSA 100	First Aid and CPR	2
MACH 105	Machine Tool Survey	3
MACH 110	Machine Tool Technology	4
MACH 111	Machine Tool Technology II	4
MACH 112	Machine Tool Technology III	. 4
MACH 120	Effect Use Machinery Handbook	4 4
MACH 135	Metallurgy and Heat Treat	4
MACH 140	Tooling Theory and Practices	. 4
MATH 114	Technical Math 1	4
	MINIMUM TOTAL	36

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

I	H · · · ·	101	
CADD 110	EMSA 100	MACH 112	
MACH 105	MACH 110	MACH 140	
MACH 120	MACH 111		
MATH 114	MACH 135	· .	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE CNLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

ELDING TECHNOLOG ASSOCIATE IN APPLIED SCIENCE ਸਤਜ਼ਾਤ

Curriculum Code: 0186 (Effective Fall 2003 - Summer 2008)

Welding is many processes of fusion, adhesion and cutting to fabricate or repair products used in manufacturing, research and application. A welding technician could also qualify for welding inspection where welding codes are applied. A welder is a skilled craftsperson with a basic knowledge of metals, applied mathematics, blueprint reading, good eyesight, self-discipline and a respect for safety A welder also needs to work well with his/her hands and have good manual coordination. Many hours of practice and proper training in the basics of MIG, TIG, shielded metal arc, brazing and oxy-fuel cutting and plasma cutting are necessary. Welders can be found in tool and die industries, auto makers, construction, oil refineries, pipelines and pressure vessels, aircraft industries and many more metal-related industries.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Manufacturing and Land Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 52 CREDITS
CODE	TITLE	CREDIT HOURS
EMSA 100	First Ald and CPR	. 2
MACH 105	Machine Tool Survey	
MACH 135	Metallurgy and Heat Treat	· · · 4· ·
MATH 114	Technical Math I	4
MATH 115	Technical Math II	. 4
MEGM 125	Rigging	2
MGMT 234	Diversity in the Workplace	· `3
PHYS 120	The Art of Physics	4
SPCH 110	Oral Communication in the Workplace	3.
WELD 100	Combination Welding	4
WELD 101	Advanced ARC Welding	4
WELD 110	Gas Metal ARC Welding	- 4
WELD 111	Gas Tungsten ARC Welding	4
WELD 120	Struct Fabrication/Inspec	4
WELD 125	Struct Blueprint Reading Weld	. 2
WELD 201	Tool and Die Welding	• 4
WELD 205	Pipe Welding	4
WRIT 124	Technical Writing	3

LIMITED CHOICE REQUIREMENTS TOTAL: 7-9 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 0 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area (See Note 1)	0
	Mathematics Core Area (See Note 1)	0
	Science Core Area (See Note 1)	0
	Writing Core Area (See Note 1)	0
OICE 2:	Technical Related 7-9 Cre	dits
FE 110	Practical Electricity	- 3
CH 100	Manufacturing Progesses	4

	MINIMUM TOTAL		69
		1	· ·
WELD 250	Welding Internship		3
MFGM,102	Industrial Pneumatics		3
MACH 100	Manufacturing Processes		4

NOTE:

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> Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

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1	H.	16	IV	
MACH 105	MACH 135	SPCH 110	EMSA 100	
MATH 114	MATH 115	WELD 111	MGMT 234	
MFGM 125	WELD 101	WELD 120	PHYS 120	
WELD 100	WELD 110	WELD 125	WELD 201	
WRIT 124	Lim.Gh.	Lim.Ch.	WELD 205	
-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

ELDING TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0156 (Effective Fall 2003 - Summer 2008)

Students receive hands-on instruction in the basics of MIG, TIG, shielded metal arc, brazing and oxy-fuel cutting, and plasma cutting to prepare them for entry level positions.

REQUIREMENTS		TOTAL: 30 CRI	EDITS
CODE	TITLE	CREDIT	HOURS
EMSA 100	First Aid and CPR		-2
MACH 135	Metallurgy and Heat Treat		4
MFGM 125	Rigging		2
WELD 100	Cembination Welding	•	4
WELD 101	Advanced ARC Welding	· ·	- 4
WELD 110	Gas Metal ARC Welding		4
WELD 111	Gas Tungsten ARC Welding	100 B	4
WELD 120	Struct Fabrication/Inspec	· ·	4
WELD 125	Struct Blueprint Reading Weld		2
	MINIMUM TOTAL		30

MINIMUM TOTAL

SUGGESTED COURSE SEQUENCE

1 · · · ·	1)	<u>\$1</u>	
EMSA 100	MACH 135	WELD_111	
MFGM 125	WELD 101	WELD 120	
WELD 100	WELD 110	WELD 125	12
	1		

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INTERIOR DESIGN TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0267 (Effective Fall 2003 - Summer 2008)

Graduates of the Interior Design Technology program work with professional interior designers to plan and create the overall design for interior spaces. They may be employed as estimators, retail sales persons, space planners, computer-aided drafting, and design technicians, lighting, and color consultants, or kitchen/bath designers. Depending on their specialty, interior design graduates work in retail or wholesale showrooms, design firms, building construction management offices, hospitality chains, interior furnishings manufacturers, or facilities departments. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Construction and Maintenance Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREMENTS			TOTAL	: 41 CREI	DITS	
	CODE	TITLE			CREONT H	OURS 1
	ARCH 100	Intro to Architecture Drawing				3
	ARCH 121	Visual Communication I			. •	3
	INTR 110	Applied Design/Color Theory				3
	INTR 170	Interior Design Principles				4
	INTR 190	Interior/Materials/Equipment				4
	INTR 201	Cultural Diversity In Housing				3
	INTR 256	Interior Professional Practice				. 3
	INTR 263	Internship				2
	INTR 270	Interior Design Portfolio				2
ĺ	MATH 117	Math for Business	• •	• •		4
	PHYS 120	The Art of Physics		1. A.		4
	SPCH 130	Fundamentals of Public Speaking				Э,
	WRIT 124	Technical Writing				3
			1		1.1	

LIMITED CHOICE REQUIREMENTS TOTAL: 23-25 CREDITS Complete the indicated number of credits from <u>each</u> CHOICE listed below.

 CHOICE 1:
 General Education Core Areas
 0 Credits

 (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)
 Communication Core Area (See Note 1)

 Communication Core Area (See Note 1)
 0

		0
	Global Perspectives and Diversity Core Area (See Note 2	2) 0
	Mathematics Core Area (See Note 1)	0
÷	Science Core Area (See Note 1)	0
	Writing Core Area (See Note 1)	0 ·
CHOICE 2:	Specialty (Choose one subchoice) 14	Credits
Subchoice 2	A: Commercial Interiors	
ARCH 201	Commercial Design	4
ARCH 231	Architectural AutoCAD I	4
INTR 275	Interior Design Commercial	6
Subchoice 2	B: Kitchen and Bath	
ARCH 101	Residential Detailing	4
INTR 151	Computer-Aided Kitchen Design	- 4
INTR 265	Interior Design Residential	6
CHOICE 3:	Discipline Related History	Credits
HUMS 211	History of Art I	• 4
HUMS 212,	History of Art It	4

CHOICE 4:	Cultural History		3 Credits
INTR 230	World Decorative Arts		3
INTR 231	Period Interiors	1 () () () () () () () () () (· 3
INTH 232	Twentieth Century Interiors		. 3
CHOICE 5:	Interior Design Related	1	2-4 Credits
ARCH 102	Residential Drawing		4
ARCH 122	Visual Communication II	14 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -	. 3
ARCH 126	Architectural Model Building		- 2
ARCH 181	Barrier-Free Design		3
ARCH 202	Commercial Drawing		4
ARCH 213	Facilities Design	1	. 3
ARCH 232	Architectural AutoCAD II		• / 4
ARCH 273	Environmental Systems		4
ARCH 283	Materials of Construction		4
BLDT 281	MI Residential & Bldg Codes		3
CABS 110	Intro to Microsoft Office	÷	<u>,</u> 3
INTR 185	Introduction to Textiles		- 3

MINIMUM TOTAL

NOTES:

- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Students must complete one course from CHOICE 3 to fulfill the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	Ħ	III ·	IA
ARCH 100	ARCH 121	INTR 256	INTR 263
INTR 110	INTR 190	PHYS 120	INTR 270
INTR 170	INTR 201	SPCH 130	Lim.Ch.2
WRIT 124	MATH 117	Lim.Ch.2	Lim.Ch.4
	Lim.Ch.2	Lim.Ch.3	Lim.Ch.5

INTERIOR DESIGN

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KITCHEN/BATH DESIGN SPECIALIST CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0926 (Effective Fall 2003 - Summer 2008)

This certificate of achievement is designed for students who seek education and the acquisition of new skills for occupational advancement or change. This certificate program provides immediate opportunity for employment in the Kitchen and Bath Industry in design and/or sales and may lead to credentialing by the National Kitchen and Bath Association (NKBA). These courses may also apply to the Interior Design Technology, Associate in Applied Science Degree.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Construction and Maintenance Technologies Department, Gannoh Vocation-Technical Center, Room 1380, telephone numbér (517) 483-1336.

REQUIREMENTS		TOTAL: 35 CR	EDITS
CODE	TITLE	CREDIT	HOURS
ARCH 100	Intro to Architecture Drawing		3
ARCH 101	Residential Detailing		4
ARCH 121	Visual Communication I	3	з
INTR 100	Interior Design Fundamentals		3
INTR 110	Applied Design/Color Theory		. 3
INTR 151	Computer-Aided Kitchen Design		4
INTR 170	Interior Design Principles	•	4
INTR 190	Interior/Materials/Equipment		4
INTR 263	Internship	1.0	2
INTR 265	Interior Design Residential		6
	OICE REQUIREMENTS	TOTAL: 3 CR HOICE listed below	
CHOICE 1: S	peech/Marketing Area	3 C	redits
MKTG 120	Sales	1	3
SPCH 110	Oral Communic in the Workplace		З
SPCH 120	Dynamics of Communication		З

MINIMUM TOTAL

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to tulfill) should contact an academic advisor or counselor for help with adjustments.

(E)	18	11	•	
ARCH 100	ARCH 101	INTR 263		
ARCH 121	INTR 151	INTR 265		
INTR 100	-INTR 170	Lim.Ch.1	÷	
INTR 110	INTR 190			

INTERIOR DESIGN MERCHANDISING CERTIFICATE OF COMPLETION

Curriculum Code: 0927 (Effective Fall 2003 - Summer 2008)

The Interior Design Merchandising Certificate of Completion provides students with knowledge and skills needed for entry-level employment as interior design assistants or for sales positions in merchandising interior design products. Most of these courses may apply to the Interior Design, Kitchen/Bath Specialist. Certificate of Achievement and the Interior Design Technology, Associate in Applied Science Degree.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Construction and Maintenance Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREME	ENTS	TOTAL: 23 CREDITS
CODE	TITLE	CREDIT HOURS
ARCH 100	Intro to Architecture Drawing	3
CNCP 101	PC Applications for Technology	. 3
INTR 100	Interior Design Fundamentals	3
INTR 110	Applied Design/Color Theory	<u> </u>
INTR 170	Interior Design Principles	- 4
INTR 185	Introduction to Textiles	.3
INTR 190	Interior/Materials/Equipment	4
LIMITED CH	OICE REQUIREMENTS	TOTAL: 6 CREDITS
Complete the	e indicated number of credits from each	CHOICE listed below.
CHOICE 1:	Cultural History	3 Credits
INTR 201	Cultural Diversity in Housing	3
INTR 230	World Decorative Arts	3
INTR 231	Period Interiors	3.
INTR 232	Twentieth Century Interiors	3
CHOICE 2:1	Speech/Marketing Area	3

MKTG 120 Sales SPCH 130 Fundamentals of Public Speaking

MINIMUM TOTAL

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

I	H, , ,			
ARCH 100	INTR 170		·.	
CNCP 101	INTR 185			
INTR 100	INTR 190			
INTR 110	Lim.Ch.2			
Lim.Ch.1				

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HORTICULTURE ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0189 (Effective Fall 2003 - Summer 2008)

A professional horticulturist deals with plant materials, their growth, development, propagation, marketing, and use. The horticulturist works with environmental conditions and pest problems of ornamental plants and their management. The two major specialty areas are landscape horticulture and floriculture. A background in plant maintenance, knowledge of growing environments and structures, as well as retail and marketing skills, is vital. Horticulturists are emoloyed by florists, greenhouses and garden centers, nurseries, retail sales outlets, landscape contractors, design and construction firms, and lawn care companies. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Manufacturing and Land Technologies Department, Gannon Vocational-Technical Center, Room 1380, telephone number (517) 483-1336.

REQUIREME	NTS	TOTAL: 50 CREDITS
CODE	TITLE	CREDIT HOURS
BIOL 120	Environmental Science	4
HORT 102	Intro Ornamental Horticulture	3
HORT 105	Pest/Problem Ornamental Plants	. 3
HORT 230	Plant Propagation/Nursery Op	4
HORT 235	Greenhouse Structures/Environ	3
LAND 100	Intro to Landscape Drafting	3
LAND 130	Interior Landscaping	. 3
LAND 140	Evergreen and Deciduous Trees	3
LAND 141	Flowering Trees, Shrubs, Vines	. 3
LAND 142	Perennial/Annual Flower Plants	3
LAND 163	Designing Ornamental Gardens	. 3
Land 282	Computer Draft/Dsgn Land Arch	3
MATH 119	Investigations with Math	. 3
MGMT 234	Diversity in the Workplace	- 3
SPCH 110	Oral Communication in the Workplace	. 3
WRIT 124	Technical Writing	3
CHOICE 1: (See <i>General</i> requirements.	Indicated number of credits from each CHON General Education Core Areas Education Core Requirements for information Core area proficiency exams, where approp	0 Credits on how to fulfill these
each core are	,	
,	Communication Core Area (See Note 1)	, O, `
	Global Perspectives and Diversity Core Are	
	Mathematics Core Area (See Note 1)	0
	Science Core Area (See Note 1)	0
	Writing Core Area (See Note 1)	· 0
CHOICE 2:	Specialization (Choose one subchoice)	21-22 Credits
HORT 107	A: Floriculture	. 3
	Beginning Floral Design	3
HORT 109	Contemporary Floral Design	3
HORT 110	Wedding Floral Design	
HORT 143	Cut Flower, Foliage, Pot Plant Greenhouse Ornamentals	
HORT 236		
HORT 237	Bedding Plant Production	3
HORT 238	Garden Center/Nursery Sales	

LANDSCAPE CAREERS

Subchoice 2	B: Landscape Horticulture	
LAND 150	Principles of Landscape Arch	3
LAND 152	Landscape Graphics Comm-Begin	3
LAND 160	Planting Design I	3
LAND 180	Landscape Ecology	3
LAND 225	Landscape Cost Estimation	3
LAND 232 .	Professional Res. Land Design	- 3
LAND 233	Grounds Management	3

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NOTES:

1. Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

MINIMUM TOTAL

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

Subchoice 2A: Floriculture Option

Ľ	1	40	ŧγ .
HORT 102	HORT 105	BIOL 120	HORT 230
HORT 107	HORT 109	HORT 110	HORT 238
HORT 143	HORT 236	HORT 237	LAND 163
HORT 235	LAND 141	LAND 130	LAND 282
LAND 100	MATH 119	LAND 142	SPCH 110
LAND 140	WRIT 124	MGMT 234	· · · · ·

Subchoice 2B: Landscape Horticulture Option

1	11	u	ŧ¥	
HORT, 102	HORT 230	BIOL 120	LAND 130	
HORT 235	LAND 141	HORT 105	LAND 163	
LAND 100	ŁAND 150	LAND 142	 LAND 180 	
LAND 140	LAND 282	LAND 152	LAND 225	
WRIT 124	MATH 119	LAND 160	LAND ₆ 233	
	MGMT 234	LAND 232	SPCH 110	
		•		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STARIES IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INFINITED WHEN - STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER THEY INTEND TO GRADUATE.

LANDSCAPE ARCHITECTURE ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0203 (Effective Fall 2003 - Summer 2008)

Landscape architects, designers, and planners deal with the ecological design and management of the land. Landscape architects and designers coordinate the analysis, planning, layout, design, and management of the exterior and interior tandscape. Landscape architects and designers are employed by design and engineering firms, parks and recreation offices, landscape contractors, design and build firms, nurseries and garden centers, arboreta and botanic gardens, and grounds management firms. A supporting background in computer design graphics and G.I.S. is helpful. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREOUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Manufacuting and Land Technologies Department, Gannon Vocational-Technical Canter, Room 1380, telephone number (517) 483-1336.

REOU	IREMEN	TS		TOTAL	: 72 CR	EDITS
CODE		TITLE			CREDIT	HOURS
BIOL	120	Environmental Science	1.1			4
LAND	100	Intro to Landscape Drafting (See Note	1)			. 3
LAND	140	Evergreen and Deciduous Trees				з
LAND	141	Flowering Trees, Shrubs, Vines				3
LAND	150	Principles of Landscape Arch	2			З.,
, LAND	152	Landscape Graphics Comm-Begin			1	3
LAND	153	Landscape Graphics Comm-Adv				Ġ
LAND	160	Planting Design 1				. 3
LAND	161	Planting Design II				3
LAND	164	Site Design				3
LANÐ	170	Site Grading 1				3
LAND	171	Site Grading II				З
LAND	172	Site Layout				3
LAND	225	Landscape Cost Estimation				з
LAND	232	Professional Res. Land Design				3
LAND	250	Landscape Construction Methods				Э
LAND	252	Landscape Construction Details				. Э
LAND	276	Landscape Documents and Spec				2
LAND	282	Computer Draft/Dsgn Land Arch				3
LAND	283	Beginning LANDCADD				3
MATH	119	Investigations with Math				3
MGM		Diversity in the Workplace				3
SPOH		Oral Communication in the Workplace	1			3
WRIT		Technical Writing		1		з
	· ·					

LIMITED CHOICE REQUIREMENTS TOTAL: 0 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 0 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area (See Note 2)	0
Global Perspectives and Diversity Core Area (See Note 2)	0
 Mathematics Core Area (See Note 2)	0
Science Core Area (See Note 2)	0
Writing Core Area (See Note 2)	0
MINIMUM TOTAL	72

NOTES:

- If students have prior experience in drafting, they should see an academic advisor in the Technology Careers Department to see if LAND 100 can be waived.
- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	ł	40 	IV .
LAND 100	BIOL 120	LAND 161	LAND 171
LAND 140	LAND 141	LAND 170	LAND 172
LAND 150	LAND 153	LAND 232	LAND 225
LAND 152	LAND 160	LAND 250	LAND 252
MATH 119	LAND 164	LAND 283	LAND 276
WRIT 124	LAND 282	MGMT 234	SPCH 110
	2		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY DNE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO ORADUATE.

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College

LEGAL ASSISTANT ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0101 (Effective Fall 2003 - Summer 2008)

Legal assistants, also known as paralegals, assist lawyers by performing many of the same tasks, except for those considered to be the practice of law. To helplawyers prepare cases for trial, they may investigate the facts; perform legal research to identify relevant laws, legal articles, judicial decisions and other documents/materials related to the case; and prepare written reports after organizing and analyzing all the information. Other duties may include drafting briefs and pleadings; obtaining affidavits, assisting the lawyer during trial, and organizing and maintaining document and correspondence files. Some legal assistants may help with completing forms, tax returns, and drafting contracts. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course. This program is approved by the American Bar Association (ABA).

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREME	NTS	TOTAL: 3	5 CREDITS
CODE	TITLE		REDIT HOURS
LEGL 115	Legal Assistant Career/Ethics		. 3
LEGL 120	Legal Research I	· · · ·	· 3
LEGL 121	Legal Writing I		. 3
LEGL 160	Critical Thinking in Law	·	· 3
LEGL 210	Litigation Procedures		4
LEGL 211	Tort Law		2
LEGL 215 ·	Busn Law I, Basic Principles	•	3
LEGL 225	Legal Research and Writing II		З.,
LEGL 228	Computer Appl for the Law Ofc		. 3
WRIT 121	Composition I	· · ·	. 4
WRIT 122	Composition II		4

LIMITED CHOICE REQUIREMENTS TOTAL: 28-31 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	General Education Core Areas	13-16 Credits
(See General	Education Core Requirements for information on	how to fulfill these
requirements.	Core area proficiency exams, where appropriate	, are available for
each core are	a.)	
	Communication Core Area	3
	Global Perspectives and Diversity Core Area	° 3-4
1	Mathematics Core Area	3-4
	Science Core Area	4-5
	Writing Core Area (See Note 1)	0
CHOICE 2:	Business Law	3 Credits
LEGL 216-	Busn Law II, Commercial Law	· · 3
LEGL 217	Busn Law III, Busn Organiza	3
LEGL 220	Internat Legal Issues/Organiza	. 3
CHOICE 3:	Computer Related	3 Credits
CABS 119	Microsoft Word	. 3
CABS 219	Advanced Microsoft Word	3
OADM 206	Legal Vocabulary/Transcription	Ë
	· · · · · · · · · · · · · · · · · · ·	

LEGAL ASSISTANT

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	CHOICE 4:	General Law	1.	<u>.</u>	9.0	Credits
	LEGL 218	Litigation Specialities		· · ·		3
	LEGL 221	Real Estate Transaction				3
	LEGL 222	Probate Law and Procedure				3
	LEGL 223	Domestic Relations	:			3
	LEGL 224	Administrative Law	1.1			.3
	LEGL 226	Legal Interview/Investigation				· 3
	LEGL 227	Bankruptcy and Collections		·		3
	LEGL 229	Immigration Law				3
	LEGL 280	Legal Assistant Internship				. 3
•	· · · ·	· · · · ·				
	1	MINIMUM TOTAL			5 N	63

NOTE:

 Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1.	R	M	īV
LEGL 115	LEGL 120	LEGL 121	LEGL 225
LEGL 160	LEGL 211	LEGL 210	LEGL 228
LEGL 215	WRIT 122	Lim.Ch.1	Lim.Ch.4
WRIT 121	Lim.Ch.1	Lim,Ch.2	Lim.Ch.4
Lim.Ch.1	Lim.Ch.1	Lim.Ch.4	1
1.1.1	Lim Ch.3		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL RECURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

College

LEGAL ASSISTANT POST-BACHELOR CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0744 (Effective Fall 2003 - Summer 2008)

The legal assistant career is an excellent choice for students possessing a bachelor's degree, especially students with strong analytical and writing skills. These students may select the following certificate curriculum which requires only legal assistant courses. This curriculum is approved by the American Bar Association (ABA).

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room-210, telephone number (517) 483-1522.

REQUIREM	ENTS	TOTAL: 2	CREDITS	
CODE	TITLE	с	REDIT HOURS	
LEGL 115	Legal Assistant Career/Ethics		3	
LEGL 120	Legal Research I (See Note 1)	· .	3	
LEGL 121	Legal Writing I (See Note 1)	3	3	
LEGL 210	Litigation Procedures (See Note 1)	ŝ	4	
LEGL 211	Tort Law		2	
LEGL 215	Busn Law I, Basic Principles		. 3	
LEGL 225	Legal Research and Writing II		· ` 3	
LIMITED CHOICE REQUIREMENTS TOTAL: 12 CREDITS Complete the indicated number of credits from each CHOICE listed below.				

CHOICE 1:	Business Law	3 Credits
LEGL 216	Busn Law II, Commercial Law	3
LEGL 217	Busn Law III, Busn Organiza	. 3
LEGL 220	Internat Legal Issues/Organiza	3
	the second second second second second second second second second second second second second second second se	
CHOICE 2:	General Law	9 Credits
LEGL 218	Litigation Specialties	З
LEGL 221	Real Estate Transaction	3
LEGL 222	Probate Law and Procedure	3
LEGL 223	Domestic Relations	3
LEGL 224	Administrative Law	. 3 .
LEGL 226	Legal Interview/Investigation	3 .
LEGL 227	Bankruptcy and Collections	3
LEGL 228	Computer Appl for the Law Ofc	. 3
LEGL 280	Legal Assistant Internship	. 3
	MINIMUM TOTAL	33

NOTES:

 Students in this curriculum will be granted a prerequisite override to take these courses concurrently with LEGL 115. Contact the Business Careers Department, telephone number (517) 483-1522 prior to registration.

 Students following this curriculum must have proof of a bachelor's degree entered on their official Lansing Community College transcript before a certificate of achievement may be granted. Students who do not possess a bachelor's degree should follow the Legal Assistant, Associate in Business Degree curriculum #0101.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS ARE RESPONSIBLE FOR A DESTER THEY INTEND TO BRADULATE.

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SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1 -	H	
LEGL 115::	LEGL 211	
LEGL 120	LEGL 225	
LEGL 121	Lim.Ch.	
LEGL 210	Lim.Ch.	1
LEGL 215	Lim.Ch.	
	Lim,Ch,	

ADVANCED MANAGEMENT **CERTIFICATE OF ACHIEVEMENT**

Curriculum Code: 0280 (Effective Fall 2003 - Summer 2008)

This is an advanced certificate program that may be taken after obtaining an associate or bachelors degree in order to enhance an individual's employment and advancement opportunities. Courses in this certificate may be used as the third year in the Northwood University Bachelor of Business Administration degree. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prereq-. uisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522 or the Advanced Management Coordinator at (517) 483-1544.

REQUIREMENTS		TOTAL: 21 CREDITS
CODE .	TITLE.	CREDIT HOURS
MGMT 304	Organizational Development	3
MGMT 329.	Adv Mgmt Communication Skills	. 3
MGMT 332	Ethics: Assumpt for the Future	3
MGMT 335	Managerial Statistics	3
MGMT 337	Human Resource Mgrnt Skills	. 3
MGMT 338	Current Topics in Management	··· 3
MGMT 348	Strategic Management/Policy (See Note 1,	

LIMITED CHOICE REQUIREMENTS (See Note 2) TOTAL: 9-10 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: MGMT 223 MGMT 225 MGMT 300	Management Developing Supervisory Skills Principles of Management Leading for Possibility	3 Credits 3 3 3
CHOICE 2: ACCG 271	Finance Principles of Finance	3 Credits 3
MGMT 346	Managerial Finance	. 3
CHOICE 3:	Business Related (See Note 3)	3-4 Credits
ACCG 210	Principles of Accounting I	4
ACCG 211	Principles of Accounting II	4
BUSN 201	International Business	3
ECON 201	Principles of Economics-Micro	·
ECON 202	Principles of Economics-Macro	. 3
LEGL 215	Bush Law I, Basic Principles	3
MGMT 101	Management Special Topics (See Note 4)	1
MGMT 345	Context and Transformation	3
MKTG 200	Principles of Marketing	ġ
MKTG 235	Marketing Internship	3
		30

NOTES:

1. It is recommended that MGMT 348 be taken near the end of this Certificate program.

2. Students should confer with a Business Department program advisor to assure that selection of Limited Choice courses will best fit their career plans, or to talk about alternative "Limited Choice" courses.

3. Students may also choose a maximum of 2 credits total from the T.I.M.E. Series (course codes MGMT 240-MGMT 279) and/or a maximum of 2 credits from CABS-prefix courses of 110 or above.

MGMT 101 may be taken up to three times for a maximum of 3 Credits toward this degree.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	· · · · · · · · · · · · · · · · · · ·			 7
MGMT 304	MGMT 332		1	
MGMT 329	MGMT 337	1 .		
MGMT 335	MGMT-348			
MGMT 338	Lim.Ch.			f.
Lim.Ch.	Lim.Ch.			
1. State 1.				

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

HUMAN RESOURCE MANAGEMENT ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0712 (Effective Fall 2003 - Summer 2008)

Human resource managers serve as a link between management and employees. They help management make effective use of employees' skills, and help employees find satisfaction in their jobs and working conditions. Graduates of this program are involved with recording and evaluating information, such as job experience, education, skills, qualifications, and job performance; providing information about policies, job duties, working conditions, wages, opportunities for promotion, and employee benefits; maintaining job files on employees; administering various employee benefits; collecting and analyzing labor market data; and employee selection and training. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building; Room 210, telephone number (517) 483-1522.

	TOTAL: 42 CR	REQUIREMENTS	
HOURS	CREDIT	TITLE	CODE
з		Introduction to Business	BUSN 118
3		Employment Law for Managers	LABR 204
3		Creative Thinking for Business	MGMT 200
3	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Developing Supervisory Skills	MGMT 223
3		Human Resource Management	MGMT 224
. 3		Principles of Management	MGMT 225
З		Training/Development for Bush	MGMT 227
. Э		Organizational Behavior	MGMT 228
3	·	Compensation Management	MGMT 229
З	· · · ·	Team Development	MGMT 231
З		Diversity in the Workplace	MGMT 234
. З		Managing/Continual Improvement	MGMT 237
. 3	•	Oral Communic in the Workplace	SPCH 110
3		Business Writing	WRIT 127

LIMITED CHOICE REQUIREMENTS

TOTAL: 19-24 CREDITS Complete the indicated number of credits from each CHOICE listed below.

7-9 Credits CHOICE 1: General Education Core Areas (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area (See Note 1)	Q
Global Perspectives and Diversity Core Area (See Note 1)	0
Mathematics Core Area	3-4
Science Core Area	4-5
. Writing Core Area (See Note 1)	0

CHOICE 2:	Specialty Related (See Notes 2 and 5)	9-11 Credits
LABR 200	Intro to Labor Relations	3
LABR 201	Labor Negotiation/Contract Adm	3
LABR 203	Labor Law	× 3
LEGL 215	Busn Law I, Basic Principles	3
MGMT 101	Management Special Topics (See Note 3)	1
MGMT 150	Managing Customer Relations	. 3
MGMT 239	Time and Stress Management	3
MGMT 280	Management Internship	. 3
MGMT 235	Independent Study/Management	1-3
MGMT 300	Leading for Possibility	: 3
MGMT 304	Organizational Development	3
MGMT 329	Adv Mgmt Communication Skills	. 3
MGMT 337	Human Resource Mgmt Skills	3
MGMT 345	Context and Transformation	3
MKTG 119	Mktg/Manage Your Profess Image	3
MKTG 229	Public Relations	2
CHOICE 3:	Computer Related (See Note 4)	3-4 Credits

Computer Related (See Note 4) CHOICE 3:

MINIMUM TOTAL

61

NOTES:

- 1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Students may also choose a maximum of 2 credits total from the T.I.M.E. 2. Series (course codes MGMT 240 through MGMT 279).
- MGMT 101 maybe taken up to three times for a maximum of 3 credits toward 3 this dearee.
- Choose CABS-prefix courses of 110 or above and/or CISB-prefix courses 4 above 100.
- Students should confer with a Business Department program advisor to 5. assure that selection of Limited Choice courses will best fit their career plans or to talk about alternative "Limited Choice" courses.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example) those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	11 .	#11	IV
BUSN 118	MGMT 224	LABR 204	MGMT 227
MGMT 223	MGMT 228	MGMT 200	MGMT 229
MGMT 234	SPCH 110	MGMT 225	MGMT 237
Lim.Ch.	WRIT 127	MGMT 231	Lim,Ch.
Lim.Ch.	Lim.Ch.	Lim.Ch.	Lim.Ch
	Lim.Ch.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,

ABOR RELATIONS CERTIFICATE OF COMPLETION

Curriculum Code: 0256 (Effective Fall 2003 - Summer 2008)

Certificate holders may improve their opportunities for advancement in this or a related area. Additional education enhances the individual's employment opportunities.

REQUIREMENTS		TOTAL: 12 CREI			EDIT	DITS
CODE	TITLE	÷	-	CREDI	I HOUF	ìS
LABR 200	Intro to Labor Relations					3
LABR 201	Labor Negotiation/Contract Adm					З
LABR 203	Labor Law				e	3
LABR 204	Employment Law for Managers					3
N. 1	MINIMUM TOTAL				. 1	12
SUGGESTE	D COURSE SEQUENCE	·				

1	£I	· · · ·		
LABR 200	LABR 201	•	· · ·	
LABR 204	LABR 203			

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEOREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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MANAGEMENT ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0245 (Effective Fall 2003 - Summer 2008)

A manager plans, organizes, delegates, and controls entire projects from start to finish. The role cuts across all areas of business and organizational life and has as its central purpose the increase of resources: personnel, money, machines, and materials. Managers supply the encouragement, coordination, and leadership to achieve company goals. Graduates of this program may qualify for entry-level positions. Addition of a technical or business specialty increases one's employability. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

2

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREMENTS		TOTAL: 45 CREDITS
CODE	TITLE	CREDIT HOURS
BUSN 118	Introduction to Business	3
BUSN 201	International Business	. 3.
LABR 200	Intro to Labor Relations	3.
LABR 204	Employment Law for Managers	3
MGMT 200	Creative Thinking for Business	· · · · 3
MGMT 223	Developing Supervisory Skills	3
MGMT 224	Human Resource Management	3
MGMT 225	Principles of Management	3
MGMT 228	Organizational Behavior	3
MGMT 231	Team Development	3
MGMT 234	Diversity in the Workplace	3
MGMT 237	Managing/Continual Improvement	. 3
MKTG 200	Principles of Marketing	3
SPCH 110	Oral Communic in the Workplace	3
WRIT 127	Business Writing	. 3 1
	OICE REQUIREMENTS	TOTAL: 16-20 CREDITS
CHOICE 1:	General Education Core Areas	7-9 Credits

(See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area (See Note 1)	· 0
	Global Perspectives and Diversity Core Area (See Note 1)	0
	Mathematics Core Area	3-4
1	Science Core Area	4-5
1	Writing Core Area (See Note 1)	0

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CHOICE 2:	Management Related (See Note	2 and 3)	9-11	Credits
ACCG 210	Principles of Accounting I			4
ACCG 211	Principles of Accounting II			. 4
BUSN 295	Small Business Management			3
ECON 201	Principles of Economics-Micro			3
ECON 202	Principles of Economics-Macro		1.1	З
LEGL 215	Bush Law I, Basic Principles			· .3
MGMT 101	Management Special Topics (See	Note 4)	1.0	1
MGMT 150	Managing Customer Relations	· .	1	. Э
MGMT 227	Training/Development for Busn			· . 3
MGMT 235	Independent Study/Management			1-3
MGMT 239	Time and Stress Management			3
MGMT 280	Management Internship	2		3
MGMT 300	Leading for Possibility	di la companya di seconda di s		3
MGMT 345	Context and Transformation			3
MGMT 346	Managerial Finance	·		з
MKTG 119	Mktg/Manage Your Profess Image			з
MKTG 202	Managerial Marketing	·		- 3
MKTG 229	Public Relations			2
				-

MINIMUM TOTAL

NOTES:

- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Students may also choose a maximum of 2 credits total from the T.I.M.E. Series (course codes MGMT 240 through MGMT 279) and/or a maximum of 2 credits of CABS-prefix courses of 110 or above.
- Students should confer with a Business Department program advisor to assure that selection of Limited Choice courses will best fit their career plans or to talk about alternative Limited Choice courses.
- MGMT 101 may be taken up to three times for a maximum of 3 credits toward this degree.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

<u>I</u>	li ·	18	١٧
BUSN 118	BUSN 201	MGMT 225	LABR 204
LABR 200	MGMT 223	MGMT 228	MGMT 200
MGMT 234	MGMT 224	MKTG 200	MGMT 237
Lim.Ch	MGMT 231	SPCH 110	Lim.Ch.
Lim.Ch.	WRIT 127	Lim.Ch.	Lim.Ch.

Students are responsible for completing all requirements as stated. The only official documentation of program completion status is an audit conducted by the Registraat's Office that is instated when students apply for a degree or certificate. Students are expected to apply one semester prior to the semester they intend to graduate.

MANAGEMENT

MANAGEMENT CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0249 (Effective Fall 2003 - Summer 2008)

Certificate holders may improve their opportunities for advancement in this or a related area. The Certificate of Achievement is often useful in conjunction with another degree in professions such as health careers or computers. Additional education enhances an individual's employment opportunities. Courses in this certificate may also be applied directly toward an Associate Degree in Management.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREME	NTS		TOTAL: 24	CRED	TS
CODE	TITLE		. CF	REDIT HO	JRS
BUSN 118	Introduction to Business				З
LABR 204	Employment Law for Managers				3
MGMT 150	Managing Customer Relations				3
MGMT 200	Creative Thinking for Business		1.1	1.	з
MGMT 224	Human Resource Management				. З
MGMT 228	Organizational Behavior				з
MGMT 231	Team Development			6	з
MGMT 234	Diversity in the Workplace		· · · /	an an an an an an an an an an an an an a	3
	DICE REQUIREMENTS Indicated number of credits from eac	h CHC	TOTAL: 6 DICE listed be		TS
CHOICE 1:	Communication Skills			3 Crec	lits
SPCH 110	Oral Communic in the Workplace				З
WRIT 127	Business Writing				3

		5 A			
CHOICE 2:	Management			3 Cr	edits
MGMT 223	Developing Supervisory Skills				3
MGMT 225	Principles of Management		4		3
MGMT 300	Leading for Possibility				<u>,</u> З
					: .
1	MINIMUM TOTAL				30

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

BUSN 118 LABR 204 MGMT 150 MGMT 200	<u> </u>	۰ ا			
MGMT 150 MGMT 200	BUSN 118	LABR 204	:		
	MGMT 150	MGMT 200			
MGMT 224 MGMT 228	MGMT 224	MGMT 228			an Anna an
MGMT 234 MGMT 231	MGMT 234	MGMT 231			· ·
Lim.Ch. Lim.Ch.	Lim.Ch.	Lim.Ch.		· ·	

MANAGING FORWARD CERTIFICATE OF COMPLETION

Curriculum Code: 1053 (Effective Fall 2003 - Summer 2008)

As each new generation of managers encounters a world changed, it must adapt and flex, push and explore. This curriculum seeks a new and re-newing thinking and alternative approaches to managing/leading organizations. It is designed to serve a variety of constituents. Among those may be practitioners of Quality principles; those who yearn for additional or fresh ways of thinking; or those desiring to add a short but powerful certificate to their credentials. Courses in this curriculum may be used in many other Business curriculums.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREME	NTS (See Note 1)	то	TAL: 13 CREDITS
CODE	TITLE		CREDIT HOURS
MGMT 101	Management Special Topics (See Note	2)	. 1
MGMT 235	Independent Study/Management (See)	Note 3)	. 1
MGMT 300	Managerial Leadership	·. ·	3
MGMT 332	Managerial Ethics		. 3
MGMT 345	Context and Transformation		3

MINIMUM TOTAL 13

NOTES:

- 1. Students wishing to follow this curriculum are urged to contact a Management Program advisor early in their course work.
- Students will take MGMT 101 three times for a total of 3 credits, choosing three different topics of specific interest. MGMT 101 will be offered several times a year with different topics. See the printed schedule book or the Course Offerings section of the LCC web site at lcc.edu for specific offerings each semester.
- Independent Study is the capstone course in this curriculum. Students will take MGMT 235 last and must see a Management Program advisor to develop assessment of outcomes strategy.

SUGGESTED COURSE SEQUENCE

Courses may be taken in any order with the exception of MGMT 235 which is a capstone course and must be taken last.

Students are responsible for completing all requirements as stated. The only official documentation of program completion status is an audit conducted by the Registrar's Office that is initiated when students apply for a degree or certificate. Students are expected to apply one semester prior to the semester they intend to graduate.

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TOTAL: 8-10 CREDITS

Curriculum Code: 0903 (Effective Fall 2003 - Summer 2008)

This program consists of practical hands-on courses that provide students with the basic business knowledge and skills necessary to start a small business.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREME	NTS	TOTAL: 7 CREDITS
GODE	TITLE	CREDIT HOURS
BUSN 191	Independent Study/Business (See Note 1)	1-3
BUSN 295	Small Business Management	. 3
MKTG 200	Principles of Marketing	3
	· · · · · · · · · · · · · · · · · · ·	

LIMITED CHOICE REQUIREMENTS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	Accounting	3 Credits
ACCG 100	Practical Accounting Non-Major	3
ACCG 101	Accounting Info for Management	3
CHOICE 2:	Management Related (See Note 2)	3-4 Credits
MGMT-223	Developing Supervisory Skills	. 3
MGMT 244	Supervisory Management	. 2
MGMT 254	How to Write a Business Plan	2
CHOICE 3:	Computer Related	2-3 Credits
-CABS 110	Intro to Microsoft Office	`Э
CABS 103	Internet Basics for Non-Majors	. 2
CABS 126	Excel	. 3
MKTG 210	Marketing on the Internet	3
		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
	MINIMUM TOTAL	15

NOTES:

 It is recommended that BUSN 191 be taken during the last semester of this certificate program. This capstone experience will result in a completed business blan.

 Students may also choose up to 4 credits from the T.I.M.E. Series (MGMT 240 through MGMT 279) to fulfill this requirement.

SUGGESTED COURSE SEQUENCE

Students should contact the Small Business Management Program Advisor as soon as possible to plan this program. Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact the advisor for help with adjustments.

ł	·	 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
BUSN 295	BUSN 191	·	
Lim.Ch.1	MKTG 200		· .
Lim.Ch.2	Lim.Ch.2	1.6	• •
	Lim.Ch.3		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY DHE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

FIELD SALES AND MARKETING ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0190 (Effective Fall 2003 - Summer 2008)

Sales/marketing specialists, or sales representatives, sell products to wholesalers, retailers, or consumers, usually on a commission basis. They call on customers, demonstrate products, point out salable features, answer questions, and forward orders. Some sales representatives sell services, rather than products. Graduates of this program are prepared to work in a variety of manufacturing, wholesaling, and retailing environments, as well as in the service sector of our economy. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREME	INTS	TOTAL: 44 CREDITS
CODE	TITLE	CREDIT HOUR
BUSN 118	Introduction to Business	1 (
LEGL 215	Busn Law I, Basic Principles	
MGMT 150	Managing Customer Relations	
VIGMT 200	Creative Thinking for Business	
MGMT 234	Diversity in the Workplace	
/KTG 100	 Current Issues in Business 	
/KTG 119	Mktg/Manage Your Profess Image	
AKTG 120 .	Sales	
/KTG 200	Principles of Marketing	· · · · · · · · · · · · · · · · · · ·
/KTG 202	Managerial Marketing	. :
4KTG 210	Marketing on the Internet	
1KTG 221	Consumer Behavior	
4KTG 235	Marketing Internship	:
SPCH 110	Oral Communic in the Workplace	
VRIT 127	Business Writing	- et al. (1997)
IMITED CH	OICE REQUIREMENTS	TOTAL: 16-19 CREDITS
	indicated number of credits from each (
ind ind	Andreased Indition of Greaks wern balling	
HOICE 1:	General Education Core Areas	7-9 Credits
	I Education Core Requirements for inform . Core area proficiency exams, where a ea.)	
	Communication Core Area (See Note	1) (
	Global Perspectives and Diversity Core	e Area (See Note 1)
	Mathematics Core Area	. 3-4
	Science Core Area	4-5
· · ·	Writing Core Area (See Note 1)	(
HOICE 2:	Computer Related	2-3 Credits
ABS 103	Internet Basics for Non-Majors	
ABS 110	Intro to Microsoft Office	
HOICE 3:	Sales/Marketing Related (See Note 2)	
CCG-210	Principles of Accounting 1	· 4
CCG 211	Principles of Accounting II	4
USN 201	International Business	
USN 295	Small Business Management	
ABS 110	Intro to Microsoft Office	
CON 201	Principles of Economics-Micro	3
CON 202	Principles of Economics-Macro	
IGMT 150	Managing Customer Relations	N 1997
IGMT 225	Principles of Management	
IGMT 228	Organizational Behavior	
IGMT 239	Time and Stress Management	
IKTG 101	Marketing Special Topics (See Note 3)	
KTG 131	Merchandising	
IKTG 140	Introduction to Advertising	3
KTG 204	Marketing Research	
1		

NOTES:

- Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area.
- Students may also choose up to 4 credits of T.I.M.E. Series courses (MGMT 240 through MGMT 279). Students should confer with a Business Department program advisor to assure that selection of Limited Choice courses will best fit their career plans.
- 3. MKTG 101 may be taken up to three times for a maximum of 3 credits toward this degree.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	. 11	111	IV ·	
BUSN 118	MGMT 150	LEGL 215	MGMT 200	
MKTG 100	MGMT 234	MKTG 120	MKTG 202	
SPCH 110	MKTG 119	MKTG 210	MKTG 235	
WRIT 127	MKTG 200	MKTG 221	Lim.Ch.	
Lim.Ch.	Lim.Ch.	Lim.Ch.	Lim.Ch.	
· · ·				

SALES SPECIALIST CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0242 (Effective Fall 2003 - Summer 2008)

Students in this curriculum begin to learn sales skills to enhance their performance on the job. Selling is more than getting a customer to buy a product. It is a system that involves understanding and meeting needs, educating on possibilities, and developing lasting relationships. A sales specialist may wish to go on to earn the Field Sales and Marketing Associate Degree.

			1.1.1	
REQUIREMEN	ITS	т	DTAL: 18 C	REDITS
CODE	TITLE		CRE	OIT HOURS
BUSN 118	Introduction to Business	,		. 3
MGMT 150	Managing Customer Relations		1010	· 3
MKTG 119	Mktg/Manage Your Profess Image			3
MKTG 120	Sales	192		- 3
MKTG 200	Principles of Marketing			3
SPCH 110	Oral Communic in the Workplace			3
	ICE REQUIREMENTS ndicated number of credits from each		AL: 11-13 C Isted belo	
CHOICE 1:	Computer Related	÷ .	2-3	Credits
CABS 103	Internet Basics for Non-Majors	. (2
CABS 110	Intro to Microsoft Office		·,	, 3
CHOICE 2:	Marketing Related (See Note 1)	· .	10-11	Credits
	MINIMUM TOTAL	А.		30
requiremer	y course with a MKTG prefix not alreative ts. Students should confer with a Main career plans.			
SUGGESTED	COURSE SEQUENCE			

•				
BUSN 118	MGMT 150			
MKTG 119	MKTG 200			
MKTG 120	SPCH 110 .	•	}	
Lim.Ch.	Lim.Ch.			
Lim.Ch.	Lim.Ch.	1. I.		•
				5 - C

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE, STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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Public Relations

Marketing Internship

MINIMUM TOTAL

MKTG 229

MKTG 235

MARKETING ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0204 (Effective Fall 2003 - Summer 2008)

Marketing is the set of activities that aims to satisfy the customer while making a profit. It is concerned with, determining need and meeting demand by making goods and services known, available, and affordable. Entry level personnel may require time in sales before internal promotion into marketing management positions. Graduates of this program are prepared to work in nearly every type of business and organization today. Traditional product marketing management is giving way to areas like nonprofit organization marketing, leading to a diverse job opportunity picture. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREBEQUISITES

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:e Э Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREME	NTS	TOTAL: 44 CREDITS
CODE	TITLE	CREDIT HOURS
BUSN 118	Introduction to Business	3
MGMT 234	Diversity in the Workplace	3
MKTG 100	Current Issues in Business	3
MKTG 119	Mktg/Manage Your Profess Image	3
MKTG 120	Sales	. 3
MKTG 130	Retailing	3
MKTG 140	Introduction to Advertising	3
MKTG 200	Principles of Marketing	. 3
MKTG 202	Managerial Marketing	3
MKTG 204	Marketing Research	3
MKTG 210	Marketing on the Internet	3
MKTG 229	Public Relations	2
MKTG 235	Marketing Internship	
SPCH 110	Oral Communic in the Workplace	3
WRIT 127	Business Writing	3
	Sources while	u. U.
	DICE REQUIREMENTS I indicated number of credits from each CHC	TOTAL: 16-18 CREDITS DICE listed below.
requirements. each core are	Communication Core Area (See Note 1) Global Perspectives and Diversity Core A Mathematics Core Area Science Core Area	· · · · 0
CHOICE 2:	Writing Core Area (See Note 1) Marketing Related (See Note 2)	0 9 Credits
ACCG 210	Principles of Accounting 1	4
3USN 201	International Business	3
8USN 254	Introduction to Investments	· 2
BUSN 295	Small Business Management	3
CABS 103	Internet Basics for Non-Majors	2
ABS 110	Intro to Microsoft Office	
CON 201	Principles of Economics-Micro	. 3
CON 202	Principles of Economics-Macro	
		3
EGL 215	Busn Law I, Basic Principles	3
IGMT 150	Managing Customer Relations	. 3
IGMT 200	Creative Thinking for Business	3
/GMT 223	Developing Supervisory Skills	3
4GMT 231	Team Development	3
IGMT 345	Context and Transformation	З
/KTG 101	Marketing Special Topics (See Note 3)	. 1
/IKTG 131	Merchandising	. 2
/KTG 210	Marketing on the Internet	3
/KTG 231	Independent Study in Marketing	1-3
	BAININALINA TOTAL	
	MINIMUM TOTAL	. 60

NOTES:

- Students completing REQUIREMENTS have fulfilled the requirements for this 1. Core area.
- Students may also choose up to 4 credits of T.I.M.E. Series courses (MGMT 2. 240 through MGMT 279). Students should confer with a Business Careers. program advisor to assure that selection of Limited Choice courses will best fit their career plans.
- 3. MKTG 101 may be taken up to three times for maximum of 3 credits toward this degree.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

11	Ш	ili .	עו	
BUSN 118	MGMT 234	MKTG 130	MKTG 202	
MKTG 100	MKTG 120	MKTG 140	MKTG 235	
MKTG 119	MKTG 200	MKTG 204	Lim.Ch.	
WRIT 127	MKTG 210	MKTG 229	Lim.Ch.	
Lim.Ch.	SPCH 110	Lim.Ch.	Lim.Ch.	

MARKETING **CERTIFICATE OF ACHIEVEMENT**

Curriculum Code: 0225 (Effective Fall 2003 - Summer 2008)

Certificate holders may improve their opportunities for advancement in this or a related area. Additional education enhances an individual's employment opportunities.

REQUIREME	INTS		TOTAL	.: 24 CREDITS
CODE	TITLE	,		CREDIT HOURS
BUSN 118	Introduction to Business			
MKTG 119	Mktg/Manage Your Profess Image			3
MKTG 120	Sales	1.2		· . 3
MKTG 130	Retailing			3
MKTG 200	Principles of Marketing	1		3
MKTG 202	Managerial Marketing		. t	. 3
SPCH 110	Oral Communic in the Workplace			3
WRIT.127	Business Writing	-	2	. 3
CHOICE 1:	indicated number of credits from eac Marketing Related (See Note 1)	-		6 Credits
	MINIMUM TOTAL			30
NOTE:			, Ì'	
1. Choose a requireme	iny course with a MKTG prefix not all ents.	ready i	used to i	meet certificate
·			•	

SUGGESTED COURSE SEQUENCE

1	lf
BUSN 118	MKTG 120
MKTG 119	MKTG 130
MKTG 200	MKTG 202
WRIT 127	SPCH 110
Lim.Ch.	Lim.Ch.

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MEDIA TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0184 (Effective Fail 2003 - Summer 2008)

Media Technology is an integrated program that prepares students for professional careers in audio, radio and television/video. Audio professionals work in audio production, audio post-production for video and sound reinforcement positions, as well as in a variety of audio-related jobs. Radio professionals work in radio production, programming, promotion, on-air/news/sports announcing, and station operations. Television/video professionals work in producing, directing, technical operations, videography, and videotape editing in broadcast and non-broadcast settings. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Visual Arts and Media Department, Academic and Office Facility, Room 208A, telephone number (517) 483-1574.

REQUIREME	NTS	TOTAL: 34 CREDITS
CODE	TITLE	CREDIT HOURS
MTEC 110	Intro Broadcast/Elec Media	4
MTEC 120	Audio Production I	4
MTEC 130	Radio Production I	4
MTEC 150	TV Production I	4
MTEC 240	Script/Copywriting for Media	. 3
MTEC 243 .	Ethics/Social Impact of Media	. 3
MTEC 285	Media Portfolio (See Note 1)	. 2
MTEC 296	Media Internship (See Note 2)	
SPCH 120	Dynamics of Communication	3
WRIT 121	Composition I	4
	DICE REQUIREMENTS	OTAL: 38-41 CREDITS ICE listed below.
	General Education Core Areas Education Core Requirements for informatio Core area proficiency exams, where appro- a.)	
a far a sea a	Communication Core Area (See Note 3)	. 0
	Global Perspectives and Diversity Core An	ea . 3-4
	Mathematics Core Area	3-4
1	Science Core Area	4-5
	Writing Core Area (See Note 3)	° 0
CHOICE 2: Subchoice 2	Media Specialty (Choose one subchoice) A: Audio/Radio	24 Credits
MTEC 121	Audio Recording I	4
MTEC 122	Sound Reinforcement	4
MTEC 220	Audio Production II	4 '
MTEC 221	Audio Recording II	. 4
MTEC 223	Sound Reinforcement Practicum (See Note	e 4) 2
MTEC 230	Radio Production II	4
MTEC 232	Radio Workshop (See Note 5)	2

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Subchoice 28: Video/Television

DBBCHOICE Z				
MTEC 152	Video Production Techniques			4
MTEC 153	Video Post-Production Technos			4
MTEC 250	TV Production II			4
MTEC 251	Advanced Field Production			4
MTEC 252	Lighting for Television/Video	·		3
MTEC 254	Electronic Presentat Graphics	· .		3
MTEC 255	Video Workshop (See Note 6)		. :	2
Subchoice 2	C: General Media Occupations (See Note 7)			
CHOICE 3:	Media-Related (See Note 8)	11	4 Cr	edits

MINIMUM TOTAL

NOTES:

- The Portfolio is a capstone course in this curriculum. All courses must be completed or taken concurrently with MTEC 285.
- Enrollment in MTEC 296 will be limited to Media Technology majors who have successfully completed 75% of their MTEC course work.
- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- MTEC 223 must be taken once toward the requirements of Subchoice 2A and may be repeated one additional time for a total of 4 credits toward this degree.
- MTEC 232 must be taken once toward the requirements of Subchoice 2A and may be taken one additional time for a total of 4 credits toward this degree.
- MTEC 255 must be taken once toward the requirements of Subchoice 2B and may be taken one additional time for a total of 4 credits toward this degree.
- Credits must be taken from Subchoices 2A, 2B, and/or departmentally approved MTEC electives or other departmentally approved electives.
 Students following Subchoice 2C must consult with a Media Technology Program Advisor regarding course selection.
- Students must select courses with the approval of a Media Program advisor. This Choice allows students to select from additional Media courses (MTEC prefix) or from other courses that will augment their Media training.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

¥.,	u'.	- III · ·	IV .
MTEC 110	WRIT 121	MTEC 240	MTEC 285
MTEC 120	Lim.Ch.	MTEC 243	MTEC 296
MTEC 130	Lim.Ch.	SPCH 120	Lim.Ch.
MTEC 150	Lim.Ch.	Lim.Ch.	Lim.Ch.
Lim.Ch.	Lim.Ch.	Lim.Ch.	Lim.Ch.
Lim.Ch.	Lim.Ch.	1	*

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MEDIA TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0967 (Effective Fall 2003 - Summer 2008)

This program consists of practical, hands-on courses that provide students with the necessary technical knowledge and skills needed for an entry-level position in the media technology industry. The certificate provides students wishing to enter the media industry a fast-track route toward that goal. Students wishing to continue toward the Media Technology Associate in Applied Science Degree will find that all courses from this option will apply.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Visual Arts and Media Department, Academic and Office Facility, Room 208A, telephone number (517) 483-1574;

REQUIREMENTS		TOTAL: 16 CREDITS
CODE .	TITLE	CREDIT HOURS
MTEC 110	Intro Broadcast/Elec Media	4
MTEC 120	Audio Production I	4
MTEC 130	Radio Production I	4
MTEC 150	TV Production I	4
LIMITED CH	DICE REQUIREMENTS	TOTAL: 24 CREDITS
Complete the	indicated number of credits from each CHOIC	E listed below.
CHOICE 1:	Media Technology (Choose one subchoice	24 Credits
Subchoice 1	A: Audio/Radio	
MTEC 121	Audio Recording I	4
MTEC 122	Sound Reinforcement	4
MTEC 220	Audio Production II	4
MTEC 221	Audio Recording II	4
MTEC 223	Sound Reinforcement Practicum (See Note	1) · 2
MTEC 230	Radio Production II	. 4
MTEC 232	Radio Workshop (See Note 2)	2
Subchoice 1	B: Video/Television	· · ·
MTEC 152	Video Production Techniques	.4
MTEC 153	Video Post-Production Technols	. 4
MTEC 250	Television Studio Production	. 4
MTEC 251	Electronic Field Production	- 4
MTEC 252	Lighting for Television/Video	3
MTEC 254	Television/Video Graphics	3
MTEC 255	Video Workshop (See Note 3)	2
Subchoice 1	C: General Media Occupations (See Note 4)	

MINIMUM TOTAL

NOTES:

- MTEC 223 must be taken once toward the requirements of Subchoice 1A and may be repeated one additional time for a total of 4 credits toward this certificate.
- MTEC 232 must be taken once toward the requirements of Subchoice 1A and may be taken one additional time for a total of 4 credits toward this certificate.
 MTEC 255 must be taken once toward the requirements of Subchoice 1B and
- MTEC 255 must be taken once toward the requirements of Subchoice 1B and may be taken one additional time for a total of 4 credits toward this certificate.
- Credits must be taken from Subchoices 1A or 1B and/or departmentally approved MTEC electives or other departmentally approved electives.
- Students following Subchoice 1C must consult with a Media Technology Program Advisor regarding course selection.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	R	· - 411		
MTEC 110	Lim, Ch.	Lim. Ch.	7	
MTEC 120	Lim, Ch.	Lim. Ch:		
MTEC 130	Lim. Ch.	Lim. Ch.		
MTEC 150	Lim. Ch,			

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQURREMENTS AS STATED. THE ONLY OFFICIAL DOCIMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INSTATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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MOTION PICTURE DIRECTION NGGORIME IN APPLIED SCIENCE DEGREE

Curriculum Code: 0900 (Effective Fall 2003 - Summer 2008)

Motion pictures bring together elements from all the other arts: writing, photography, theater, music, dance, and all the visual arts. The Motion Picture Direction program gives students extensive practical experience working with other artists and technicians to create dramatic, documentary, experimental, or animated films. The degree is designed for students who wish to become screenwriters, directors, and film editors, the people who guide the film story-telling process. Entry-level jobs include production assistants as well as apprentices and interns in specialized roles with independent film production companies, advertising firms, and major film studios. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Visual Arts and Media Department, Academic and Office Facility, Room 208A, telephone number (517) 483-1574.

REQUIREMENTS		TOTAL: 38 CREDITS		
CODE	TITLE		CREDIT I	IOURS
. ARTS 102	Design & Communication			3
FILM 118	Film Production I		1.	4
FILM 220	Screenwriting			з
FILM 226	Film Production II	4 d		4
FILM 227	Film Production III			4
FILM 290	Motion Picture Portfolio (See Note 1)			4
IMAG_101	Basic Photog for Non-Majors			· ·2
THEA 120	Introduction to Acting			2.
THEA 140	Acting for Non-Majors			2
THEA 150	Acting for the Camera			. 3
THEA 220	Play Directing			3
WRIT 121	Composition I		14	4

LIMITED CHOICE REQUIREMENTS TOTAL: 28-32 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

Comment Education Order Annual

CHOICE 1:	General Education Core Areas	10-13 Credits
(See General	Education Core Requirements for information on ho	w to fulfill these
requirements.	Core area proficiency exams, where appropriate, a	are available for
each core area	a.)	
	Communication Core Area (See Note 2)	· · O
	Global Perspectives and Diversity Core Area	3-4
	Mathematics Core Area	3-4
	Science Core Area	4-5
· .	Writing Core Area (See Note 2)	,O [,]
CHOICE 2:	Techniques and Technology	15 Credits
ARTS 105	Adobe Photoshop: Non-Majors	2
ARTS 195	Employ/Busn Issues for Artists	. 1
FILM 203	Topics in Film/Animation	3
FILM 281	Motion Picture Internship (See Note 3)	· 3
MTEC 120	Audio Production I	4
MTEC 152	Video Production Techniques	4
MTEC 153	Video Post-Production Technes	4
STEC 140	Theatrical Make-Up/Wardrobe	3
WRIT 260	Creative Writing I	3

CHOICE 3:	Social Issues	3-4 Credits
ENGL 240	The Film as Art	4
MTEC 243	Ethics/Social Impact of Media (See Note 4)	3

MINIMUM TOTAL

NOTES:

- 1. Enrollment in FILM 290 will be limited to Motion Picture Production Majors who have successfully completed 75% of their FILM course work.
- 2. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- 3. Enrollment in FILM 281 will be limited to Motion Picture Production Majors who have successfully completed 75% of their FILM course work.
- Students in this curriculum may be granted approval to waive the prerequisites for this course by contacting an advisor in the Visual Arts and Media Department prior to registration.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	ļ	制	IV
ARTS 102	FILM 220	FILM 227	FILM 290
FILM 118	FILM 226	THEA 150	Lim.Ch.
IMAG 101	THEA 140	THEA 220	Lim.Ch.
THEA 120	Lim.Ch.	Lim.Ch.	Lim.Ch.
WRIT 121	Lim.Ch.	Lim.Ch.	Lim,Ch.

Students are responsible for completing all requirements as stated. The only oppical documentation of program completion status is an students apply for a degree or certificate, Students are expected to apply one semester prior to the semester they witend to graduate. LEVION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN

MOTION PICTURE ww.lcc.edu

MOTION PICTURE PRODUCTION ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0902 (Effective Fall 2003 - Summer 2008)

Since the first film screening in 1895, motion pictures have grown into one of the world's most influential communication media and the United States' second leading export. The Motion Picture Production degree gives students extensive handson experience in creative and technical filmmaking skills, and it provides the opportunity to build a demonstration reel showcasing a student's ability. Filmmakers usually work in teams, each member specializing in one field such as cinematography, sound recording, lighting, special effects, or animation. While most films are produced by California companies, there are motion pictures made in every state. Filmmakers may work as independent contractors or find employment in companies that rent facilities, sell equipment, or contract services for film productions. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

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Contact the Visual Arts and Media Department, Academic and Office Facility, Room 208A, telephone number (517) 483-1574.

REQUIREMENTS		TOTAL: 28 CREDITS		
CODE	TITLE	CREDIT HOURS		
ARTS 102	Design & Communication	. 3		
FILM 118	Film Production I	. 4		
FILM 226	Film Production II	4		
FILM 227	Film Production III	4		
IMAG 101	Basic Photog for Non-Majors	2		
MTEC 120	Audio Production	. 4		
MTEC 152	Video Production Techniques	4		
MTEC 252	Lighting for Television/Video	3,		

LIMITED CHOICE REQUIREMENTS TOTAL: 34-40 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	General Education Core Areas	13-17 Credits
(See General I	Education Core Requirements for information on I	how to fulfill these
requirements.	Core area proficiency exams, where appropriate	, are available for
each core area		· ·

	Communication Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area	3-4
	Mathematics Core Area	3.4
	Science Core Area	4-5
	Writing Core Area	3-4
CHOICE 2:	Techniques and Technology	15 Credits
ARTS 105	Adobe Photoshop: Non-Majors	2
ARTS 195	Employ/Busn issues for Artists	. 1
BUSN 295 -	Small Business Management	3
ELCT 161	Soldering/Desoldering	1
ELTE 100	Electrical Safety Practices	1
FILM 203	Topics in Film/Animation	3
FILM 220	Screenwriting	3
MTEC 121	Audio Recording I	4
MTEC 153	Video Post-Production Technos	4
STEC 100	Intro to Stage Tech Industry	2
STEC 120	Stage Lighting and Electricity	3
STEC 140	Theatrical Make-Up/Wardrobe	. 3.
STEC 150	Stage and Arena Rigging	3
CHOICE 3:	Social Issues	3-4 Credits
ENGL 240	The Film as Art	4
MTEC 243	Ethics/Social Impact of Media (See Note 2)	3

CHOICE 4:	Capstone Experience	3-4 Credits
FILM 281	Motion Picture internship (See Note 3)	3
FILM 290	Motion Picture Portfolio (See Note 4)	4
	MINIMUM TOTAL	. 62

NOTES:

- 1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- 2. Students in this curriculum may be granted approval to waive the prerequisites for this course by contacting an advisor in the Visual Arts and Media Department prior to registration.
- 3. Enrollment in FILM 281 will be limited to Motion Picture production Majors who have successfully completed 75% of their FiLM course work
- 4. Enrollment in FILM 290 will be limited to Motion Picture Production Majors who have successfully completed 75% of their FILM course work.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

I	11	M	IA
ARTS 102	FILM 226	FILM 227	Lim.Ch.
FILM 118	MTEC 152	Lim.Ch.	Lim.Ch.
IMAG 101	MTEC 252	Lim.Ch.	Lim.Ch.
MTEC 120	Lim.Ch.	Lim.Ch.	Lim.Ch.
Lim:Ch.	Lim Ch		
	Lim.Ch.		

MOTION PICTURE PRODUCTION CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0901 (Effective Fall 2003 - Summer 2008)

This program is designed for students who already have a degree or who are completing a degree in another area and wish to gain technical and creative hands-on experience to build a demonstration reel showcasing their skills.

REQUIREMENTS		TOTAL: 25 CREDITS
CODE	TITLE	CREDIT HOURS
FILM 118	Film Production I	4
FILM 226	Film Production II	4
FILM 227	Film Production III	4
IMAG-101	Basic Photog for Non-Majors	
MTEC 120	Audio Production I	. –
MTEC 152	Video Production Techniques	4
MTEC 252	Lighting for Television/Video	3

LIMITED CHOICE REQUIREMENTS TOTAL: 9 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	Techniques & Technology		i		9 Credits
ARTS 102	Design & Communication	·.			3
ARTS 105	Adobe Photoshop: Non-Majors	1		•	2
ARTS 195	Employ/Busn Issues for Artists				4
FILM 203	Topics in Film/Animation				. 3
FILM 220	Screenwriting		¢.		3
FILM 281	Motion Picture Internship (See Note 1	9			3
MTEC 153	Video Post-Production Technos		~		. 4
STEC 100	Intro to Stage Tech Industry				2
STEC 120	Stage Lighting and Electricity				
STEC 140	Theatrical Make-Up/Wardrobe				3 -
STEC 150	Stage and Arena Rigging				3
	MINIMUM TOTAL				24

NOTE:

1. Enrollment in FILM 281 will be limited to Motion Picture Production Majors who have successfully completed 75% of their FILM course work.

SUGGESTED COURSE SEQUENCE

I	1	10 No. 10 No. 10 No. 10 No. 10 No. 10 No. 10 No. 10 No. 10 No. 10 No. 10 No. 10 No. 10 No. 10 No. 10 No. 10 No.
FILM 118	FILM 226	FILM 227
MAG 101	MTEC 152	Lim.Ch.
MTEC 120	MTEC 252	Lim.Ch.
Lim.Ch.	Lim.Ch.	A second seco

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

College

Curriculum Code: 1044 (Effective Fall 2003 - Summer 2008)

The Administrative Office Management Program provides Office Administration graduates and practicing office professionals, as well as those returning to the workforce after an absence, the opportunity to enhance their skills, increase their employability, and advance in their careers. The Administrative Office Management Associate in Business Degree builds on the course work provided in the Certificate of Achievement and will enhance a student's employment opportunities in this field. Graduates of the program are prepared to work as an office manager or administrative supervisor in an office setting. Although specific functions vary considerably, most office managers establish and monitor office procedures and policies; coordinate and supervise the work of their staff; evaluate employee performance; interview, hire, and train new employees; manage long-term projects; prepare progress and departmental performance reports; order and maintain office equipment; and generally act as the primary liaison between support staff and managerial staff. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Office Administration Program, Office Unit B, telephone number (517) 483-1587.

REQUIREMENTS		TOTAL: 49 CRED	
GODE	TITLE	CREDIT HO	
ACCG 100	Practical Accounting Non-Major .		3
BUSN 118	Introduction to Business	·	3
CABS 103	Internet Basics for Non-Majors		2
CABS 133	Microsoft Access Database		3
CABS 205	Using Project Mgmt Software		2
CABS 232	Advanced Microsoft Access		2
LEGL 215	Busn Law I, Business Principles		3 ·
MATH 117	Math for Business		4
MGMT 223	Developing Supervisory Skills		3
MKTG 200	Principles of Marketing		3
OADM 105	Employability Skills		1
OADM 195	Human Relations in Work Place		3
OADM 216	Information Records Mgmt [*] 11	2	3
OADM 220	Admin Mgmt in Organizations	· · · · · · · · · · · · · · · · · · ·	з
OADM 240	Office Internship (See Note 1)	· · · · · · · · · · · · · · · · · · ·	2
OADM 275	Diversity in Business	•	3 /
SPCH 1.10;	Oral Communic in the Workplace		· 3
WRIT 127	Business Writing		3

TOTAL: 18-20 CREDITS LIMITED CHOICE REQUIREMENTS Complete the indicated number of credits from each CHOICE listed below.

4-5 Credits CHOICE 1: General Education Core Areas (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area (See Note 2)	0
Global Perspectives and Diversity Core Area (See Note 2)	0
Mathematics Core Area (See Note 2)	0
Science Core Area	4-5
Writing Core Area (See Note 2)	0

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CHOICE 2:	Office Management Options		9 Credits
LABR 204	Employment Law for Managers	· ·	3
MGMT 224	Human Resource Management		3
MGMT 225	Principles of Management		. 3
MGMT 227	Training/Development for Bush		3
MGMT 231	Team Development		3
MGMT 239	Time and Stress Management		. 3
CHOICE 3:	Computer Related	. 4	5-6 Credits
CABS 110	Microsoft Office		· 3
CABS 119	Microsoft Word	· ·	3
CABS 119 CABS 126	Microsoft Word Excel	· .	3
			3 3 2

NOTES:

- 1. Internship is considered the capstone course in this curriculum. Students must have Department Approval and enroll concurrently in OADM 105 to enroll in Internship.
- Students completing REQUIREMENTS have fulfilled the requirements for this 2. Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfilly should contact an academic advisor or counselor for help with adjustments.

ACCG 100 CABS 133 CABS 232 OADM 105	
BUSN 118 CABS 205 LEGL 215 OADM 240	
CABS 103 OADM 216 MATH 117 SPCH 110	
MGMT 223 WRIT 127 MKTG 200 Lim.Ch.1	
OADM 195 Lim.Ch.2 OADM 275 Lim.Ch.2	
OADM 220 Lim.Ch.3 Lim.Ch.2	
Lim.Ch.3	1

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DECREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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ADMINISTRATIVE OFFICE MGMT CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 1049 (Effective Fall 2003 - Summer 2008)

The Administrative Office Management Program provides Office Administration graduates and practicing office professionals, as well as those returning to the workforce after an absence, the opportunity to enhance their skills, increase their employability, and advance in their careers. The Certificate of Achievement builds on the basic course work provided in the Certificate of Completion and will enhance a student's employment opportunities in this field. Graduates of the program are prepared to work as an office manager or administrative supervisor in an office setting. All course work in this certificate will apply toward completion of the Administrative Office Management Associate in Business Degree.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Office Administration Program, Office Unit B, telephone number (517) 483-1587.

EDITS	TOTAL: 31 CF	NTS	REQUIREME
r hours	CREDI	TITLE	CODE
3		Practical Accounting Non-Major	ACCG 100
з		Introduction to Business	BUSN 118
2		Internet Basics for Non-Majors	CABS 103
.3		Microsoft Access Database	CABS 133
2		Using Project Mgmt Software	CABS 205
3		Developing Supervisory Skills	MGMT 223
1		Employability Skills	OADM 105
3		Human Relations in Work Place	OADM 195
3	1. A 1. A 1. A 1. A 1. A 1. A 1. A 1. A	Information Records Mont II	OADM 216
3		Admin Mgmt in Organizations	OADM 220
2		Office Internship (See Note 1)	OADM 240
		Business Writing	WRIT 127

LIMITED CHOICE REQUIREMENTS TOTAL: 2-3 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	Computer Related	· • · · ·	2-3 Credits
CABS 110	Microsoft Office		3
CABS 119	Microsoft Word		3
CABS 126	Excel		3
OADM 108	Input Technologies/Business		2
4	MINIMUM TOTAL		33

NOTE:

1. Internship is considered the capstone course in this curriculum. Students must have Department Approval and enroll concurrently in OADM 105 to enroll in Internship.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments

	1 <u></u>	5			1	
	ACCG 100	CABS 133		 	 	
•	BUSN 118	CABS 205				
	CABS 103	OADM 105				
	MGMT 223	OADM 216				
	OADM 195	OADM 240				
	OADM 220	WRIT 127				
		Lim.Ch.				

DMINISTRATIVE OFFICE MGMT CERTIFICATE OF COMPLETION

Curriculum Code: 1050 (Effective Fall 2003 - Summer 2008)

The Administrative Office Management Program provides Office Administration graduates and practicing office professionals, as well as those returning to the workforce after an absence, the opportunity to enhance their skills, increase their employability, and advance in their careers. The Certificate of Completion provides the basic course work in this program. Graduates of the program are prepared to work as an office manager or administrative supervisor in an office setting. All course work in this certificate will apply toward completion of the Administrative Office Management Certificate of Achievement and Associate in Business Degreë.

PREBEQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Office Administration Program, Office Unit B, telephone number (517) 483-1587.

REQUIREME		TOTAL	17 CRED	ITS	
CODE	TITLE			CREDIT-HO	URS
ACCG 100	Practical Accounting Non-Major			· ·	ā
BUSN 118	Introduction to Business				3
CABS 103	Internet Basics for Non-Majors		۰.		2
MGMT 223	Developing Supervisory Skills	i e e e		1.1	3
OADM 195	Human Relations in Work Place			1.1	a
OADM 220	Admin Mgmt in Organizations				3
		· · · ·			

MINIMUM TOTAL

17

NOTE:

L

1. Students with prior office work experience and advanced skills are encouraged to consult with an Office Administration Program Advisor for appropriate placement in the program.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

ACOG 100						
BUSN 118						
CABS 103	· · ·					
MGMT 223			1.1			
OADM 195		5			1 - P	
OADM 220				1		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS A STUDENTS APPLY FOR A DEGREE OR CERTIFICATE, STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN

2003-2005 Catalog Lansing Community College

EGAL OFFICE ADMINISTRATION ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0207 (Effective Fall 2003 - Summer 2008)

The Legal Office Administration Program prepares students to work as a legal secretary in law offices, courts, public agencies, and in legal departments of larger businesses and organizations. The Legal Office Administration Associate in Business degree builds on the course work provided in the Certificate of Achievement and will enhance a student's employment opportunities in this field. Legal secretaries are an important part of a legal team and typically report to one or more attorneys. Legal secretaries are skilled in the use of computers and the preparation of legal documents. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREOUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information

INFORMATION

Contact the Office Administration Program, Office Unit B, telephone number (517) 483-1587.

REQUIREMENTS (See Note 1)		TOTAL: 65 CREDITS			
ODE	TITLE			CREDIT	HOURS
3USN 118	Introduction to Business				3
DABS 103	Internet Basics for Non-Majors				2
CABS 119	Microsoft Word				· 3
CABS 126	Excel				з
CABS 133	Microsoft Access Detabase				.3
.EGL 115	Legal Assistant Career/Ethics				з
EGL 210	Litigation Procedures				4
EGL 215	Bush Law I, Basic Principles				З
MATH 117	Math for Business				4
DADM 102	Editing Business Documents				2
DADM 105	Employability Skills	· .			1
DADM 108	Input Technologies/Business		2		2
DADM 1951	Human Relations in Work Place			1	3
DADM 203	Professional Office Procedures		÷		Э
DADM 206	Legal Vocabulary/Transcription			1. A.	· 3
DADM 208	Legal Citations/Document Prep		·		ુ 3
OADM 215	Information Records Mgmt I			÷.,	ં 3
DADM 220	Admin Mgmt in Organizations				-3
DADM 240	Office Internship				2
OADM 275	Diversity in Business				3
DADM 291	Office Systems Capstone				3
SPCH 110	Oral Communic in the Workplace				З
WRIT 127	Business Writing				3

LIMITED CHOICE REQUIREMENTS

TOTAL: 4-5 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 4-5 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area (See Note 2)	0
Global Perspectives and Diversity Core Area (See Note 2)	0
Mathematics Core Area (See Note 2)	0
Science Core Area	4-5
Writing Core Area (See Note 2)	, 0
	69

MINIMUM TOTAL

NOTES

- 1. It is recommended that students entering this curriculum have keyboarding and Windows experience. This experience may come from life or work experience, CABS 100 Seminars, CABS 101, CABS 104, CABS 106, or CABS 195.
- Students completing REQUIREMENTS have fulfilled the requirements for this 2. Core area.
- This curriculum requires that students complete all courses with a grade of 2.0 з or higher for graduation.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	₿. ÷	ili	IV
CABS 103	BUSN 118	LEGL 215	LEGL 210
CABS 119	CABS 126	QADM 215	MATH 117
OADM 102	CABS 133	OADM 220	OADM 105
OADM 108	LEGL 115	OADM 275	OADM 240
OADM 195	OADM 208	Lim.Ch.	OADM 291
OADM 203	WRIT 127		SPCH 110
OADM 206	1		· ·

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL RECORDEMENTS AS STATED. THE CALLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR COMPLETING ALL RECORDERATE STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER FRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

LEGAL OFFICE ADMINISTRATION CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 1042 (Effective Fall 2003 - Summer 2008)

The Legal Office Administration Program prepares students to work as a legal secretary in law offices, courts, public agencies, and in legal departments of larger businesses and organizations. The Certificate of Achievement builds on the basic course work provided in the Certificate of Completion and will enhance a student's employment opportunities in this field. All course work will apply toward completion of the Legal Office Administration Associate in Business Degree.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Office Administration Program, Office Unit B, telephone number (517) 483-1587.

REQUIREMENTS (See Note 1)		TOTAL: 39 CRE	DITS
CODE	TITLE	CREDIT H	ours
BUSN 118	Introduction to Business	· · · · · · · · · · · · · · · · · · ·	3
CABS 103	Internet Basics for Non-Majors		2
CABS 119	Microsoft Word	+ + +	Э
CABS 126	Excel	I	3
CABS 193	Microsoft Access Database		3
LEGL 115	Legal Assistant Career/Ethics	1	3
LEGL 215	Busn Law I, Basic Principles		3
OADM 102	Editing Business Documents		2
OADM 105	Employability Skills		1
OADM 108	Input Technologies/Business	÷	2
OADM 203	Professional Office Procedures	· · · ·	: 3
OADM 206	Legal Vocabulary/Transcription		3
OADM 208	Legal Citations/Document Prep	1	3.
OADM 240	Office Internship	•	2
WRIT 127	Business Writing		3
	MINIMUM TOTAL	· · · ·	39

NOTE:

 It is recommended that students entering this curriculum have keyboarding and Windows experience. This experience may come from life or work experience, CABS 100 seminars, CABS 101, CABS 104, CABS 106, or CABS 195.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	1			
CABS 103	BUSN 118	LEGL 215		
CABS 119	CABS 126	OADM 105	· ·	
OADM 102	CABS 133	OADM 240		
OADM 108	LEGL 115	WRIT 127		
OADM 203	OADM 208	•		
OADM 206				

LEGAL OFFICE ADMINISTRATION CERTIFICATE OF COMPLETION

Curriculum Code: 1054 (Effective Fall 2003 - Summer 2008)

The Legal Office Administration Program prepares students to work as a secretary in law offices, courts, public agencies, and in legal departments of larger businesses and organizations. The Certificate of Completion provides basic course work for this program and will prepare students for an entry-level position in this field. All course work in this certificate will apply toward completion of the Legal Office Administration Certificate of Achievement and Associate in Business Degree which students are encouraged to complete for enhanced employment opportunities in this field.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Office Administration Program, Office Unit B, telephone number (517) 483-1587.

REQUIRÉMENTS (See Note 1)		TOTAL: 15 CREDITS	
CODE TITLE		CREDIT HOURS	
CABS 103	Internet Basics for Non-Majors	2	
CABS 119	Microsoft Word	3	
OADM 102	Editing Business Documents	. 2	
OADM 108	Input Technologies/Business	2	
OADM 203	Professional Office Procedures	3	
OADM 206	Legal Vocabulary/Transcription	- 3	

MINIMUM TOTAL

NOTE:

 It is recommended that students entering this curriculum have keyboarding and Windows experience. This experience may come from life or work experience, CABS 100 seminars, CABS 101, CABS 104, CABS 106, or CABS 195.

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SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

CABS 103 CABS 119 OADM 102 OADM 108 OADM 203 OADM 206

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INSTATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PROR TO THE SEMESTER THEY INTEND TO GRADUATE.

MEDICAL OFFICE ADMINISTRATION **ASSOCIATE IN BUSINESS DEGREE**

Curriculum Code: 0185 (Effective Fall 2003 - Summer 2008)

The Medical Office Administration Program prepares students to work as a member of administrative support staff in hospitals, medical centers, medical clinics, insurance companies, managed care organizations, and other private and public sector healthcare settings. The Medical Office Administration Associate in Business degree builds on the course work in the Certificate of Achievement and enhances a student's employment opportunities in this field. The Medical Administrative Assistant is a specialist in the healthcare profession. Medical administrative assistants facilitate the work of physicians, researchers, and other health team professionals by managing health information, transcribing medical dictation, coding and billing for medical procedures, scheduling appointments and procedures, and arranging patient hospitalizations. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATIÓN

Contact the Office Administration Program, Office Unit B,telephone number (517) 483-1587.

REQUIREMENTS (See Note 1)		TOTAL: 68 CREDITS	
CODE	TITLE	CREDIT HOURS	
BIOL 145	Introductory Anat & Physiology	4	
CABS 103	Internet Basics for Non-Majors	- 2	
CABS 119	Microsoft Word	. 3	
CABS 126	Excel	. 3	
CABS 133	Microsoft Access Database	• 3	
CHSE 123	Medical Insurance Billing I	- ° 3	
CHSE 124	Medical Insurance Billing II		
MATH 117	Math for Business	4	
OADM 102	Editing Business Documents	. 2	
OADM 105	Employability Skills	1	
OADM .108.	Input Technologies/Business		
OADM 195	Human Relations in Work Place	3	
OADM 197	Medical Vocabulary	3	
OADM 198	Health Information Management	3	
OADM 203	Professional Office Procedures	3	
OADM 210	Medical Coding Concepts	. 3	
OADM 215	Information Records Mgmt I	· 3	
OADM 220	Admin Mgmt in Organizations	: <u>3</u>	
OADM 228	Financial Mgmt in Health Care	/ 3	
OADM 240	Office Internship	. 2	
OADM 275	Diversity in Business		
OADM 291	Office Systems Capstone	: 3	
SPCH 110	Oral Communic in the Workplace	Э	
WRIT 127	Business Writing	3	
	OICE REQUIREMENTS	TOTAL: 0 CREDITS	

LIMITED CHOICE REQUIREMENTS 0 CHEDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 0 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.) 0

	68
Writing Core Area (See Note 2)	0
Science Core Area (See Note 2)	0
Mathematics Core Area (See Note 2)	0
Global Perspectives and Diversity Core Area (See Note 2)	0
Communication Core Area (See Note 2)	0

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL RECORREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAN'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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NOTES:

- 1. It is recommended that students entering this curriculum have keyboarding and Windows experience. This experience may come from life or work experience, CABS 100 Seminars, CABS 101, CABS 104, CABS 106, or CABS 195.
- Students completing REQUIREMENTS have fulfilled the requirements for this 2 Core area.
- This curriculum requires that students complete all courses with a grade of 2.0 Э. or higher for graduation.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transterred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

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BIOL 145	CABS 133	CABS 126	MATH 117
CABS 103	CHSE 123	CHSE 124	OADM 105
CABS 119	OADM 195	OADM 215	OADM 210
OADM 102	OADM 198	OADM 220	OADM 228
OADM 108	OADM 203	OADM 275	OADM 240
OADM 197	WRIT 127	SPCH 110	OADM 291

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MEDICAL OFFICE ADMINISTRATION CERTIFICATE OF ACRIEVEMENT

Curriculum Code: 1009 (Effective Fall 2003 - Summer 2008)

The Medical Office Administration Program prepares students to work as a member of administrative support staff in hospitals, medical centers, medical clinics, insurance companies, managed care organizations, and other private and public sector healthcare settings. The Certificate of Achievement builds on the basic course work in the Certificate of Completion and enhances a student's employment opportunities in this field. All course work will apply toward completion of the Medical Office Administration Associate in Business Degree.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

Contact the Information Technology and Office Systems Department, Old Central Building, Room 137, telephone number (517) 483-1546.

REQUIREMENTS (See Note 1)		TOTAL: 37 CREDITS		
000E	TITLE	4		
BIOL 145	Introductory Anat & Physiology	2		
CABS 103	Internet Basics for Non-Majors	3		
CABS 119	Microsoft Word	3		
CABS 133	Microsoft Access Database	3		
CHSE 123	Medical Insurance Billing 1	. 2		
OADM 102	Editing Business Documents	1		
OADM 105	Employability Skills	2		
OADM 108	Input Technologies/Business	3		
OADM 197	Medical Vocabulary	3		
OADM 198	Health Information Management	3		
OADM 203	Professional Office Procedures	3		
OADM 210	Medical Coding Concepts	2		
OADM 240	Office Internship	3		
WRIT 127	Business Writing	0		
	MINIMUM TOTAL	37		

NOTES:

1. It is recommended that students entering this curriculum have keyboarding and Windows experience. This experience may come from life or work experi-

ence, CABS 100 Seminars, CABS 101, CABS 104, CABS 106, or CABS 195. Students must complete all courses with a grade of 2.0 or higher to receive 2.

this certificate of achievement.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transterred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

	u .		· · · · · · · · · · · · · · · · · · ·
BIOL 145 CABS 103 OADM 102 OADM 108 OADM 197	CABS 119 CHSE 123 OADM 198 OADM 203 WRIT 127	CABS 133 OADM 105 OADM 210 OADM 240	

MEDICAL OFFICE ADMINISTRATION CERTIFICATE OF COMPLETION

Curriculum Code: 1051 (Effective Fall 2003 - Summer 2008)

The Medical Office Administration Program prepares students to work as a member of administrative support staff in hospitals, medical centers, medical clinics. insurance companies, managed care organizations, and other private and public sector healthcare settings. The Certificate of Completion provides the basic course work in this program and prepares students for entry-level employment in this field. All course work in this certificate will apply toward completion of the Medical Office Administration Certificate of Achievement and Associate in Business Degree.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

Contact the Office Administration Program, Office Unit B.telephone number (517) 483-1587.

REQUIREMENTS (See Note 1)			TOTAL: 16 CREDITS	
	TITLE		REDIT HOURS	
BIOL 145 CABS 103 CABS 119	Introductory Anat & Physiology Internet Basics for Non-Majors Microsoft Word	•	4 - 2 - 3 - 2	
OADM 102 OADM 108 OADM 197	Editing Business Documents Input Technologies/Business Medical Vocabulary		23	
			. 16	

MINIMUM TOTAL

NOTE:

1. It is recommended that students entering this curriculum have keyboarding and Windows experience. This experience may come from life or work experience, CABS 100 Seminars, CABS 101, CABS 104, CABS 106, or CABS 195

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

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BIOL 145	CABS 119		
CABS 103			
OADM 102			· · · ·
OADM 108			
OADM 197			
		1	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INSTACES WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE. LANSING COMMUNITY COLLEGE CATALOG 2003-2005 # 173

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MEDICAL TRANSCRIPTION ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0756 (Effective Fall 2003 - Summer 2008)

The Medical Transcription Program prepares students to work as a member of administrative support staff in hospitals, medical centers, medical clinics, insurance companies, managed care organizations, managed transcription services, and home office settings. The Medical Transcription Associate in Business degree builds on the course work provided in the Certificate of Achievement and enhances a student's employment, opportunities in this field. A Medical Transcriptionist is a medical language specialist who interprets and transcribes dictation by physicians and other healthcare professionals in order to document patient care and facilitate delivery of healthcare services. Transcription areas may include patient assessment, workup, therapeutic procedures, clinical course, diagnosis, and prognosis. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Office Administration Program, Office Unit B, telephone number (517) 483-1587.

REQUIREMENTS (See Note 1)			TOTAL:		
CODE	TITLE			CREDIT	HOURS
BIOL 145	Introductory Anat & Physiology				4
CABS 103	Internet Basics for Non-Majors				2
CABS 119	Microsoft Word				3
CABS 126	Excel				3
CABS 133	Microsoft Access Database				3
MATH 117	Math for Business				-4
OADM 102	Editing Business Documents				2
OADM 105	Employability Skills		1.1		. 1
OADM 108	Input Technologies/Business				2
OADM 195	Human Relations in Work Place	÷., .,		. '	÷ 3
OADM 197	Medical Vocabulary				3
OADM 198	Health Information Management	100			. 3
OADM 203	Professional Office Procedures				3
OADM 207	Medical Transcription				3
OADM 210	Medical Coding Concepts		1		3 3
OADM 215	Information Records Mgmt I				
OADM 220	Admin Mgmt in Organizations				3
OADM 222	Advanced Medical Transcription				3
OADM 228	Financial Mgmt in Health Care				3
OADM 240	Office Internship				2
OADM 275	Diversity in Business				. :3
OADM 291	Office Systems Capstone				. Э
SPCH 110	Oral Communic in the Workplace				3
WRIT 127	Business Writing				3

TOTAL: 0 CREDITS LIMITED CHOICE REQUIREMENTS Complete the indicated number of credits from each CHOICE listed below.

0 Credits CHOICE 1: General Education Core Areas (See General'Education Core Requirements for information on how to fulfill these

requirements. Core area proficiency exams, where appropriate, are available for each core area.) Ω mmunication Core Area (See Note 2)

MINIMUM TOTAL	68
Writing Core Area (See Note 2)	0
Science Core Area (See Note 2)	0
Mathematics Core Area (See Note 2)	e
Global Perspectives and Diversity Core Area (See Note 2)	0
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NOTES:

- It is recommended that students entering this curriculum have keyboarding 1 and Windows experience. This experience may come from life or work experience, CABS 100 seminars, CABS 101, CABS 104, CABS 106, or CABS 195. Students completing REQUIREMENTS have fulfilled the requirements for this 2. Core area.
- This curriculum requires that students complete all courses with a grade of 2.0 З, or higher for graduation.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1 .	0.	11	۲۷	
BIOL 145	CABS 133	CABS 126	MATH 117	
CABS 103	OADM 195	OADM 210	OADM 105	
CABS 119	OADM 198	OADM 215	OADM 228	
OADM 102	OADM 203	OADM 220	OADM 240	
OADM 108	OADM 207	OADM 222	OADM 275	
OADM 197	WRIT 127	SPCH 110	OADM 291	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PROP TO THE SEMESTER THEY INTEND TO GRADUATE.

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MEDICAL TRANSCRIPTION CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0968 (Effective Fall 2003 - Summer 2008)

The Medical Transcription Program prepares students to work as a member of administrative support staff in hospitals, medical centers, medical clinics, insurance companies, managed care organizations, managed transcription services, and home office settings. The Certificate of Achievement builds on the basic course work provided in the Certificate of Completion and enhances a student's employment opportunities in this field. All course work in this certificate will apply toward completion of the Medical Transcription Associate in Business degree.

PREREQUISITES

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Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Office Administration Program, Office Unit B, telephone number (517) 483-1587.

REQUIREMENTS (See Note 1)		TOTAL: 37	CREDITS
CODE	TITLE	CI	EDIT HOURS
BIOL 145	Introductory Anat & Physiology	· ·	4
CABS 103	Internet Basics for Non-Majors		2
CABS 119	Microsoft Word		3
CABS 133	Microsoft Access Database		3
OADM 102	Editing Business Documents		2 .
OADM 105	Employability Skills		1
OADM 108	Input Technologies/Business		2
OADM 197	Medical Vocabulary	and the second sec	3
OADM 198	Health Information Mgmt		3
OADM 203	Professional Office Procedures		3
OADM 207	Medical Transcription		3
OADM 222	Advanced Medical Transcription		3
OADM 240	Office Internship	· .	2
WRIT 127	Business Writing		3
	MINIMUM TOTAL		37

NOTES:

- It is recommended that students entering this curriculum have keyboarding and Windows experience. This experience may come from life or work experience, CABS 100 seminars, CABS 101, CABS 104, CABS 106, or CABS 195.
- Students must complete all courses with a grade of 2.0 or higher to receive this certificate of achievement.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	¥I	· 🛱		1	
BIOL 145	CABS 133	OADM 105			
CABS 103	OADM 198	OADM 222			
CABS 119	OADM 203	OADM 240			
OADM 102	OADM 207		1 A		
OADM 108	WRIT 127				
OADM 197	·				

MEDICAL TRANSCRIPTION CERTIFICATE OF COMPLETION

Curriculum Code: 1045 (Effective Fall 2003 - Summer 2008)

The Medical Transcription Program prepares students to work as a member of administrative support staff in hospitals, medical centers, medical clinics, insurance companies, managed care organizations, managed transcription services, and home office settings. The Certificate of Completion provides the basic course work in the program and prepares students for entry-level employment in this field, All course work in this certificate will apply toward completion of the Medicai Transcription Certificate of Achievement and Associate in Business Degree.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Office Administration Program, Office Unit B, telephone number (517) 483-1587.

REQUIREMENTS (See Note 1)		TOTAL: 17 CREDITS
CODE	TITLE	CREDIT HOURS
BIOL 145	Introductory Anat & Physiology	. 4
CABS 119	Microsoft Word	3
OADM 102	Editing Business Documents	2
OADM 108	Input Technologies/Business	. 2
OADM 197	Medical Vocabulary	3
OADM 207	Medical Transcription	3
	MINIMUM TOTAL	17

NOTE:

- It is recommended that students entering this curriculum have keyboarding and Windows experience. This experience may come from life or work experi-
- ence, CABS 100 Seminars, CABS 101, CABS 104, CABS 106, or CABS 195.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

L	B .					×	
BIOL 145	OADM 207		•				
CABS 119		1			•		
OADM 102		•					x
OADM 108							
OADM 197							

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER THEY NOT THE SEMESTER THEY NOT AD EGREE OR CERTIFICATE.

OFFICE ADMINISTRATION ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0114 (Effective Fall 2003 - Summer 2008)

The Office Administration Program prepares students to work as an administrative secretary, administrative assistant, or executive secretary in an office setting. The Office Administration Associate in Business degree builds on the course work provided in the Certificate of Achievement and will enhance a student's employment opportunities in this field. In addition to their traditional role, today's office professional is responsible for coordinating a variety of office functions including communication, research, training and orientation of staff, budgeting and financial analysis, records management; and new office technology operation and troubleshooting. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Office Administration Program, Office Unit B, telephone number (517) 483-1587.

REQUIREMENTS (See Note 1)		TOTAL: 57 CREDITS
CODE	TITLE	CREDIT HOURS
ACCG 100	Practical Accounting Non-Major	3
BUSN 118	Intro to Business	3
CABS 103	Internet Basics for Non-Majors	. 2
CABS 119	Microsoft Word	. 3
CABS 126	Excel :	. 3
CABS 133	Microsoft Access Database	3
CABS 205	Using Project Mgmt Software	. 2
MATH 117	Math for Business	4
OADM 102	Editing Business Documents	- 1 ¹ - 19 - 2
OADM 105	Employability Skills	. 1
OADM 108	Input Technologies/Business	2
OADM 195	Human Relations in Work Place	. 3
OADM 203	Professional Office Procedures	3
OADM 215	Information Records Mgmt I	. 3
OADM 216	Information Records Mgmt II	· · 3
OADM 220	Admin Mgmt in Organizations	. 3
OADM 240	Office Internship	2
OADM 275	Diversity in Business	Э
OADM 291	Office Systems Capstone	3
SPCH 110 .	Oral Communic in the Workplace	3
WRIT 127	Business Writing	3
LIMITED CH	OICE REQUIREMENTS	TQTAL: 6-8 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 4-5 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area (See Note 2)	0
	Global Perspectives and Diversity Core Area (See Note 2	2) 01
	Mathematics Core Area (See Note 2)	0
	Science Core Area	4-5
	Writing Core Area (See Note 2)	0
CHOICE 2:	Computer Related 2-3	Credits
CABS 129	Excel-Advanced	. 3
CABS 182	Microsoft PowerPoint	3
CABS 219	Advanced Microsoft Word	3
CABS 232	Advanced Microsoft Access	· 2
	MINIMUM TOTAL	63

NOTES:

- 1. It is recommended that students entering this curriculum have keyboarding and Windows experience. This experience may come from life or work experience, CABS 100 Seminars, CABS 101, CABS 104, CABS 106, or CABS 195.
- Students completing REQUIREMENTS have fulfilled the requirements for this 2. CORE area.
- This curriculum requires that students complete all courses with a grade of 2.0 З
- or higher for graduation.

SUGGESTED COURSE SEQUENCE

Students' should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

<u>I</u>	H · · · · ·	10	IA
CABS 103	ACCG 100	BUSN 118	MATH 117
CABS 119	CABS 126	CABS 205	OADM 105
CABS 133	OADM 195	OADM 216	OADM 240
OADM 102	OADM 215	OADM 220	OADM 291
OADM-108	WRIT 127	OADM 275	SPCH 110
OADM 203	Lim.Ch.		Lim Ch

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION, STATUS IS AN AUDIT CONDUCTED BY THE REGISTRATS, OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE

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OFFICE ADMINISTRATION CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0924 (Effective Fall 2003 - Summer 2008)

The Office Administration Program prepares students to work as a secretary in an office setting. The Certificate of Achievement builds on the basic course work provided in the Certificate of Completion and will enhance a student's employment opportunities in this field. All course work will apply toward completion of the Office Administration Associate in Business Degree.

PREREQUISITES

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Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Office Administration Program, Office Unit B, telephone number (517) 483-1587.

REQUIREMENTS (See Note 1)			TOTAL	: 33 CRE	DITS
CODE	TITLE	-		. CREDIT I	HOURS
BUSN 118	Intro to Business				3
CABS 103	Internet Basics for Non-Majors				2
CABS 119	Microsoft Word				Э
CABS 126	Excel				Э
CABS 193	Microsoft Access Database				3
OADM 102	Editing Business Documents				2
OADM 105	Employability Skills				1
OADM 108	Input Technologies/Business				2
OADM 195	Human Relations in Work Place	2			3
OADM 203	Professional Office Procedures			1	3
OADM 215	Information Records Mgmt I			1.00	3
OADM 240	Office Internship				2
WRIT 127	Business Writing		d.		3

LIMITED CHOICE REQUIREMENTS TOTAL: 2-3 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	Computer Related	2-3 Credits	
CABS 129	Excel-Advanced	3	
CABS 182	Microsoft PowerPoint/Windows	. 3	
CABS 219	Advanced Microsoft Word	3	
CABS 232	Advanced Microsoft Access	2	
		1	
	MINIMUM TOTAL	35	

NOTES:

 It is recommended that students entering this curriculum have keyboarding and Windows experience. This experience may come from life or work experience, CABS 100 seminars, CABS 101, CABS 104, CABS 106, or CABS 195.
 Students must complete all courses with a grade of 2.0 or higher to receive

 Students must complete air costs this certificate of achievement.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustment.

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CABS 103	CABS 126	BUSN 118
CABS 119	OADM 195	OADM 105
CABS 133	OADM 215	OADM 240
OADM 102	WRIT 127	
OADM 108	Lim.Ch.	
OADM 203		
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OFFICE ADMINISTRATION CERTIFICATE OF COMPLETION

Curriculum Code: 0789 (Effective Fall 2003 - Summer 2008)

The Office Administration Program prepares students to work as a secretary in an office setting. The Certificate of Completion provides the basic course work in this program and prepares students for entry-level employment in this field. All course work will apply toward completion of the Office Administration Certification of Achievement and Associate in Business Degree.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Office Administration Program, Office Unit B, telephone number (517) 483-1587.

	NTS (See Note 1) TITLE	CREDIT HOURS	TOTAL: 18 CF	IEDITS
CABS 103	Internet Basics for N	on-Majors		2
CABS 119	Microsoft Word		1.	3
CABS 126	Excel		1 A.	3
CABS 133	Microsoft Access Da	itabase		3
OADM 102	Editing Business Do	cuments		2
OADM 108	Input Technologies/B	lusiness		2
OADM 203	Professional Office F	Procedures		З

MINIMUM TOTAL

NOTES:

- It is recommended that students entering this curriculum have keyboarding and Windows experience. This experience may come from life or work experience, CABS 100 seminars, CABS 101, CABS 104, CABS 106, or CABS 195.
- Students must complete all courses with a grade of 2.0 or higher to receive this certificate of completion.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1 ·	11 .	 			
CABS 103	CABS 126	1.			1
CABS 119	OADM 203				
CABS 133	1				 ÷
OADM 102	and the second second			1	
OADM 108			:		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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College

INFORMATION AND RECORDS MGM1 ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0195 (Effective Fall 2003 - Summer 2008)

Graduates of the Information and Records Management Program are prepared to work as a records clerk, records manager, or records supervisor in an office setting. Records personnel account for and control an organization's information records using various data storage, retrieval, and filing systems and are employed in virtually every industry in the nation. Employment is concentrated in health services, finance, insurance, real estate, transportation, communications, utilities, and business services. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor, before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Office Administration Program, Office Unit B, telephone number (517) 483-1587.

REQUIREMENTS (See Note 1)		TOTAL: 60 CREDITS			ITS
CODE	TITLE			CREDIT HO	URS
ACCG 100	Practical Accounting Non-Major			·	з
BUSN 118	Intro to Business				Э
CABS 103	Internet Basics for Non-Majors			`	2
CABS 119	Microsoft Word				3
CABS 126	Excel				3
CABS 133	Microsoft Access Database				З
CABS 205	Using Project Mgmt Software				2
CABS 232	Advanced Microsoft Access				2
MATH 117	Math for Business				4
MGMT 225	Principles of Management		3.1		З
OADM 105	Employability Skills				1
OADM 108	Input Technologies/Business				2
OADM 195	Human Relations in Work Place				3
OADM 203	Professional Office Procedures				3
OADM 215	Information Records Mgmt I			· ·	3
OADM 216	Information Records Mgmt II				3
OADM 220	Admin Mgmt in Organizations				3
OADM 240	Office Internship		1		2
OADM 275	Diversity in Business	· · ·			з
OADM 291	Office Systems Capstone				3
SPCH 110	Oral Communic in the Work Place				3
WRIT 127	Business Writing				3
	· · · ·	•		7	

LIMITED CHOICE REQUIREMENTS

TOTAL: 4-5 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	General Education Core Areas 4-5	Credits
(See General	Education Core Requirements for information on how to full	fill these
requirements.	Core area proficiency exams, where appropriate, are avail	lable for
each core are	a.)	
	Communication Core Area (See Note 2)	0
	Global Perspectives and Diversity Core Area (See Note 2) 0
	Mathematics Core Area (See Note 2)	, U

MINIMUM TOTAL	64
Writing Core Area (See Note 2)	0
Science Core Area	4-5
Mathematics Core Area (See Note 2)	0
Global Perspectives and Diversity Core Area (See Note 2)	U

NOTES:

- 4. It is recommended that students entering this curriculum have keyboarding and Windows experience. This experience may come from life or work experience, CABS 100 Seminars, CABS 101, CABS 104, CABS 106, or CABS 195.
- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- 3. This curriculum requires that students complete all courses with a grade of 2.0 or higher for graduation.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

L	N	14	IV ·
CABS 103	ACCG 100	CABS 205	MGMT 225
CABS 119	BUSN 118	CABS 232	OADM 105
CABS 133	CABS 126	MATH 117	OADM 240
OADM 108	OADM 203	OADM 220	OADM 291
OADM 195	OADM 216	OADM 275	SPCH 110
OADM 215	WRIT 127		Lim.Ch.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DECREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE. 178 LANSING COMMUNITY COLLEGE CATALOG 2003-2005

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	FLCATE		4 1 1 1 1 1 1 1 1	

Curriculum Code: 1047 (Effective Fall 2003 - Summer 2008)

The Office Administration Professional Studies Certificate of Completion will provide currently working administrative professionals the opportunity to enhance their skills, increase their employability, and advance in their careers. Upon completion of this certificate, students will be able to apply new learning in their field of study to the workplace. Course work included in the certificate is grouped into categories established by the International Association of Administrative Professions.

PREREQUISITES

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Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Office Administration Program, Office Unit B, telephone number (517) 483-1587.

REQUIREMENTS (See Note 1)		TOTAL	2 CREDITS
CODE	TITLE		CREDIT HOURS
OADM 108	Input Technologies		2

LIMITED CHOICE REQUIREMENTS TOTAL: 14-21 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	Information Processing/	4
	Communications Technologies	3-6 Credits
CISB 100	Intro Computer Info Systems	3
CISB 200	Info Sys Tech/Problem Solving	3
SIGN 161	American Sign Language I	. 3
SPCH 110	Oral Communic in the Workplace	3
SPCH 120	Dynamics of Communication	3
SPCH 130	Fundamental of Public Speaking	3 -
SPCH 140	Interpersonal Communication	3
SPCH 260	Nonverbal Communication	3
SPCH 280	Intercultural Communication	3
WRIT 127	Business Writing	3
· · · ·		
CHOICE 2:	Office Procedures/Administrative Mgmt/	
	Records Mgmt	6-9 Credits
BUSN 118	Introduction to Business	. 3
MGMT 225	Dringiples of Management	
	Principles of Management	. 3
MGMT 231	Team Development	Э
MGMT 239	Team Development Time and Stress Management	9 ' 3
	Team Development	Э
MGMT 239	Team Development Time and Stress Management	9 ' 3
MGMT 239 OADM 102	Team Development Time and Stress Management Editing Business Documents	9 3 2 1 3
MGMT 239 OADM 102 OADM 105	Team Development Time and Stress Management Editing Business Documents Employability Skills	3 2 1 3 3
MGMT 239 OADM 102 OADM 105 OADM 195	Team Development Time and Stress Management Editing Business Documents Employability Skills Human Relations in Work Place Professional Office Procédures Information Records Mgmt I	9 3 2 1 3
MGMT 239 OADM 102 OADM 105 OADM 195 OADM 203	Team Development Time and Stress Management Editing Business Documents Employability Skills Human Relations in Work Place Professional Office Procédures	3 2 1 3 3
MGMT 239 OADM 102 OADM 105 OADM 195 OADM 203 OADM 215	Team Development Time and Stress Management Editing Business Documents Employability Skills Human Relations in Work Place Professional Office Procédures Information Records Mgmt I	3 2 1 3 3 3 3
MGMT 239 OADM 102 OADM 105 OADM 195 OADM 203 OADM 215 OADM 216	Team Development Time and Stress Management Editing Business Documents Employability Skills Human Relations in Work Place Professional Office Procédures Information Records Mgmt I Information Records Mgmt II	3 2 1 3 3 3 3 3
MGMT 239 OADM 102 OADM 105 OADM 195 OADM 203 OADM 215 OADM 216 OADM 220	Team Development Time and Stress Management Editing Business Documents Employability Skills Human Relations in Work Place Professional Office Procédures Information Records Mgmt I Information Records Mgmt II Admin Mgmt in Organizations	3 2 1 3 3 3 3 3 3

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CHOICE 3:	Software & Hardware Integration/	
	Document Processing	5-6 Credits
CABS 103	Internet Basics for Non-Majors	2
CABS 104	Keyboarding Improvement	. 2
CABS 110	Intro to Microsoft Office	- 3
CABS 119	Microsoft Word	. 3
CABS 126	Excel	3
CABS 129	Excel-Advanced	. 3
CABS 133	Microsoft Access Database	. 3
CABS 182	Microsoft Powerpoint	3
CABS 195	Microsoft Windows	2
CABS 205	Using Project Mgmt Software	2
CABS 210	Advanced Microsoft Office	· · · 3
CABS 219	Advanced Microsoft Word	3.
CABS 232	Advanced Microsoft Access	. 2
CABS 234	Programming Microsoft Access	3

MINIMUM TOTAL

NOTE:

1. It is recommended that students entering this curriculum have keyboarding s and Windows experience. This experience may come from life or work experience, CABS 100 Seminars, CABS 101, or CABS 106.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	H	
OADM 108	Lim.Ch.	
Lim,Ch.	Lim.Ch.	· ·
Lim.Ch.	Lim.Ch.	 1. Sec. 1. Sec.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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College

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ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0270 (Effective Fall 2003 - Summer 2008)

The Music Program enables students to transfer to a four-year institution after completing studies in music theory, piano and applied lessons. In addition to academic music classes, the curriculum includes private training in an instrument, performances with fine ensembles, and introduction to computers and music. Emphasis is placed on integrating skills acquisition with performing opportunities. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college.

PREREOUISITES

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Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

The admission requirements for this program may change each academic year. For the most recent application information, contact the Humanities and Performing Arts Department, Arts and Sciences Building, Room 255, telephone number (517) 483-1018 or the LCC Admissions Office, Suite 2300, Gannon Vocational-Technical Center, telephone number (517) 483-1254.

REQUIREMENTS FOR ADMISSION TO THE MUSIC PROGRAM Curriculum Code: 0721

In order to be considered as a candidate for this program, students must complete the following requirements:

- a. Submit high school transcript or GED and all college transcripts.
- Interview with Performing Arts advisor to discuss curriculum requirements. Repertoire requirements for the audition pertaining to their specific instrument will be described in detail.
- c. Audition. The actual audition day will consist of a live performance on instrument or voice in front of a faculty panel. A theory test covering written and aural theory will also be administered on the audition day. Names of students passing this phase of the Selective Admissions will be forwarded to the Admissions Office for processing.

MUSIC PROGRAM REQUIREMENTS

Curriculum Code: 0270

REQUIREMENTS		TOTAL: 38 CREDI			
CODE	JATLE '		CR	EDIT HO	UAS
ENGL 122	Writing: Literature and Ideas				4
MUSC 138	Class Piano Major I	· · ·			2
MÜSC 139	Class Plano Major II				2
MUSC 163	Aural Skills I				1
MUSC 164	Aural Skills II				1
MUSC 193	Basic Musicianship I				3
MUSC 194	Basic Musicianship II				з
MUSC 197	Intro to Music Technolgies	1 d		÷	2
MUSC 240	World Music History I				4
MUSC 241	World Music History II				4
MUSC 263	Aural Skills III				1
MUSC 264	Aural Skills IV				1
MUSC 293	Advanced Musicianship I				3
MUSC 294	Advanced Musicianship II				3
WRIT 121	Composition I				4

LIMITED CHOICE REQUIREMENTS (See Note 1) TOTAL: 22-26 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	General Education Core Areas	10-12 Credits					
(See General	(See General Education Core Requirements for information on how to fulfill these						
	Core area proficiency exams, where appropriate, a						
each core are	a.)						
44 - <u>7</u> - 2	Communication Core Area	. 3					
	Global Perspectives and Diversity Core Area (See	Note 2) 0					
	Mathematics Core Area	, 3-4					
	Science Core Area	4-5					
	Writing Core Area (See Note 2)	. 0					
CHOICE 2:	Private Lessons (See Note 3)	8 Credits					
MUSC 157	Applied Lesson I	2					
MUSC 158	Applied Lesson II	. 2					
MUSC 257	Applied Lesson III	. 2					
MUSC 258	Applied Lesson IV	2					
		1					
CHOICE 3:	Ensembles and Voice (Choose one subchoice)	4-6 Credits					
Subchoice 3/	A: Voice Requirements						
MUSC 108	Concert Choir (See Note 3)	1					
MUSC 178	Beginning Diction for Singers (See Note 4)	: 2					

Subchoice 3B: Instrumental Requirements (See Note 3)

000000000	obraida anonar riedane ura (eco ribio e)	
MUSC 1/19	Lansing Concert Band	
MUSC 121	Percussion Ensemble	
MUSC 122	Guitar Ensemble	
MUSC 123	Jazz Ensemble	

MINIMUM TOTAL

NOTES:

- It is strongly recommended that students intending to transfer to four-year institutions meet additional course requirements as outlined in the MACRAO Transfer Agreement (see "Transfer Information"). Students should also consult appropriate Transfer Guides for specific four-year programs (available from Counseling and Advising).
- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Course may be repeated and MUST be taken each semester student is enrolled as a major.
- Course required only of Voice Majors, and must be taken in addition to the required vocal ensemble.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example; those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

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t	8	41	¥V -
MUSC 138	ENGL 122	MUSC 240	MUSC 241
MUSC 163	MUSC 139	MUSC 263	MUSC 264
MUSC 193	MUSC 164	MUSC 293	MUSC 294
WRIT 121	MUSC 194	Lim. Ch. 1	Lim. Ch. 1
Lim. Ch. 2	MUSC 197	Lim. Ch. 2	Lim, Ch. 2
Lim. Ch. 3	Lim. Ch. 1	Lim. Ch. 3	Lim. Ch. 3
(Lim. Ch. 2		
	Lim. Ch. 3	:	

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MUSIC: COMMERCIAL ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0274 (Effective Fall 2003 - Summer 2008)

The Music: Commercial Program has been designed to focus on today's music in pop and jazz idioms. It is a first step toward a professional career in commercial music, such as studio engineer, band manager or performer. In addition to academic music classes, the curriculum includes private training in an instrument. performances with fine ensembles, and introduction to computers and music. Emphasis is placed on integrating skills acquisition with performance opportunities. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college.

PREREQUISITES

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Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

The admission requirements for this program may change each academic year. For the most recent application information, contact the Humanities and Performing Arts Department, Arts and Sciences Building, Room 255, telephone number (517) 483-1018 or the LCC Admissions Office, Room 232, Gannon Vocational-Technical Center, telephone number (517) 483-1254.

REQUIREMENTS FOR ADMISSION TO THE MUSIC:

COMMERCIAL PROGRAM

Curriculum Code: 0722

In order to be considered as a candidate for this program, students must complete the following requirements:

- a. Submit high school transcript or GED and all college transcripts
- Interview with Performing Arts advisor to discuss curriculum requirements. D.-Repertoire requirements for the audition pertaining to their specific instrument will be described in detail.
- Audition. The actual audition day will consist of a live performance on instrument or voice in front of a faculty panel. A theory test covering written and aural theory will also be administered on the audition day. Names of students passing this phase of the Selective Admissions will be forwarded to the Admissions Office for processing.

MUSIC: COMMERCIAL PROGRAM REQUIREMENTS Curriculum Code: 0274

REQUIREMENTS		TOTAL: 31		
3000	TRLE	1.11	CREDIT HOURS	
MTEC 120	Audio Production I		. 4	
MUSC 138	Class Piano Major L		2	
MUSC 155	Class Voice Commercial I		. 2	
MUSC 163	Aural Skills -		. 1	
MUSC 164	Aural Skills II		1	
MUSC 193	Basic Musicianship I		. 3	
MUSC 194	Basic Musicianship II		. 3	
MUSC 197	Intro to Music Technologies		. 2	
MUSC 253	Business of Music		3	
MUSC 254	Band Management		2	
MUSC 263	Aural Skills III		·	
MUSC 264	Aural-Skills IV		. 1	
MUSC 293	Advanced Musicianship I			
MUSC 294	Advanced Musicianship II		. 3	

LIMITED CHOICE REQUIREMENTS (See Note 1) TOTAL: 41-48 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 16-20 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area }

20011	0010	aroc	a.)	1	
			Communication Core Area	3	
			Global Perspectives and Diversity Core Area	3-4	
			Mathematics Core Area	3-4	
			Science Core Area	4-5	
		1	Writing Core Area	3-4	

		1		
	CHOICE 2: MUSC 240 MUSC 241 MUSC 242 MUSC 242 MUSC 246 MUSC 247	History World Music History 1 World Music History 1 American Musical Thea History of Blues and Ja History of Rock and Ro	ZZ	4 Credits 4 4 2 2 2
	CHOICE 3: MUSC 139 MUSC 156 MUSC 232 MUSC 270	Applied Skills Class Piano Major II Class Voice Commercia Music Seminar Rock Guitar	1.11	1-2 Credits 2 2 1 2
	CHOICE 4: MUSC 157 MUSC 158 MUSC 257 MUSC 258	Private Lessons Comr Applied Lesson I Applied Lesson II Applied Lesson III Applied Lesson IV	nercial (See Note 2)	8 Credits 2 2 2 2
	CHOICE 5: Subchoice 5A MUSC 101 MUSC 102 MUSC 104 MUSC 108	Ensembles and Voice Voice Requirements (Lanswingers Vocal Ense Women's Chorus LCC Satin Blues Ensen Concert Choir.	emeble	4 Credits 1 1 1 1
	Subchoice 58 MUSC 119 MUSC 121 MUSC 122 MUSC 123	I: Instrumental Require Lansing Concert Band Percussion Ensemble Guitar Ensemble Jazz Ensemble		1 1 1
-	CHOICE 6: MTEC 121 MTEC 122 MTEC 130 MTEC 220 MTEC 221 MUSC 298	Music and Media Tech Audio Recording I Sound Reinforcement Radio Production I Audio Production II Audio Recording II- Electronic and Compute		7-8 Credits 4 4 4 4 4 3
	CHOICE 7: MUSC 276 MUSC 280 THEA 120	Performing Arts Electi Lyric Writing Private Composition Introduction to Acting Dance Classes (See No	n an an an Araba Araba Mara	1-2 Credits 2 1 2 1-2

MINIMUM TOTAL

NOTES:

- 1. It is strongly recommended that students intending to transfer to four-year institutions meet additional course requirements as outlined in the MACRAO Transfer Agreement (see "Transfer Information"), Students should also consult appropriate Transfer Guides for specific four-year programs (available from Counseling and Advising).
- Courses may be repeated and MUST be taken each semester student is 2. enrolled as a major.
- Other Media Technology (MTEC) courses may be substituted with department Э. approval.
- 4. Students may choose from 100 level DANC courses, and may need to meet other audition requirements.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

11	lli	IV /
MUSC 164	MUSC 253	MUSC 254
MUSC 194	MUSC 263	MUSC 264
- MUSC 197	MUSC 293	MUSC 294
Lim. Ch. 1	Lim. Ch. 1	Lim, Ch. 1
Lim. Ch. 1	Lim. Ch. 2	Lim. Ch. 4
Lim. Ch. 2	Lim. Ch. 4	Lim. Ch. 5
Lim. Ch. 3	Lim. Ch. 5	Lim. Ch. 6
Lim. Ch. 4	Lim. Ch. 6	
Lim. Ch. 5	Lim. Ch. 7	
	MUSC 194 MUSC 197 Lim. Ch. 1 Lim. Ch. 1 Lim. Ch. 2 Lim. Ch. 3 Lim. Ch. 4	MUSC 194 MUSC 263 MUSC 197 MUSC 293 Lim. Ch. 1 Lim. Ch. 1 Lim. Ch. 1 Lim. Ch. 2 Lim. Ch. 2 Lim. Ch. 4 Lim. Ch. 3 Lim. Ch. 5 Lim. Ch. 4 Lim. Ch. 6

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE CNLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE

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College

MUSIC MANAGEMENT ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0861 (Effective Fall 2003 - Summer 2008)

The Music Management Program has been designed to focus on today's music industry. It is a first step toward a business career in the music industry; such as, studio engineer, band manager, or music retailing. In addition to academic music classes, the curriculum includes private training in an instrument, performances with fine ensembles, an introduction to computers and music, and business and management courses. Emphasis is placed on integrating musicianship and business skills. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

The admission requirements for this program may change each academic year. For the most recent application information, contact the Humanities and Performing Arts Department, Arts and Sciences Building, Room 255, telephone number (517) 483-1018 or the LCC Admissions Office, Room 232, Gannon Vocational-Technical Center, telephone number (517) 483-1254.

REQUIREMENTS FOR ADMISSION TO THE MUSIC MANAGEMENT PROGRAM Curriculum Code: 0862

In order to be considered as a candidate for this program, students must complete the following requirements:

- a. Submit high school transcript or GED and all college transcripts.
- Interview with Performing Arts advisor to discuss curriculum requirements. Repertoire requirements for the audition pertaining to their specific instrument will be described in detail.
- c. Audition. The actual audition day will consist of e live performance on instrument or voice in front of a faculty panel. A theory test covering written and aural theory will also be administered on the audition day. Names of students passing this phase of the Selective Admissions will be forwarded to the Admissions Office for processing.

MUSIC MANAGEMENT PROGRAM REQUIREMENTS

Curriculum Code: 0861

REDITS	TOTAL: 46		NTS	REQUIREME
DIT HOURS	ĊĦ	•	TITLE	CODE
4			Principles of Accounting 1	ACCG 210
4			Principles of Accounting II	ACCG 211
з			Introduction to Business	BUSN 118
. 4			Math for Business	MATH 117
3			Diversity in the Workplace	MGMT 234
. 4			Audio Production I	MTEC 120
. 4			Audio Recording I	MTEC 121
. 2		2	Class Piano Major I	MUSC 138
- 1			Aural Skills I	MUSC 163
1			Aural Skills II	MUSC 164
Э			Basic Musicianship I	MUSC 193
· 3			Basic Musicianship II	MUSC-194
2			Intro to Music Technologies	MUSC 197
Э			Business of Music	MUSC 253
. 2		÷	Band Management	MUSC 254
. · 3			Business Writing	WRIT 127

LIMITED CHOICE REQUIREMENTS	TOTAL: 23-26 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 7-8 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

enon core are		
	Communication Core Area	3
	Global Perspectives and Diversity Core Area (See	Note 1) 0
	Mathematics Core Area (See Note 1)	<u></u> 0
	Science Core Area	4-5
	Writing Core Area (See Note 1)	. 0
CHOICE 2:	Private Lessons Commercial (See Note 2)	8 Credits
MUSC 157	Applied Lesson I	. 2
MUSC 158	Applied Lesson II	2
MUSC 257	Applied Lesson III	2
MUSC 258	Applied Lesson IV	2
CHOICE 3:	Ensembles and Voice (Choose one subchoice)	4 Credits
Subchoice 3/	A: Vocal Requirements (See Note 2)	·
MÜSC 101	Lanswingers Vocal Ensemble	1
MUSC 102	Women's Chorus	1
MUSC 104	LCC Satin Blues Ensemble	1
MUSC 108	Concert Choir	1
Subchoice 3	3: Instrumental Requirements (See Note 2)	•.
MUSC 119	Lansing Concert Band	1
MUSC 121	Percussion Ensemble	- 1
MUSC 122	Guitar Ensemble	. 1
MUSC 123	Jazz Ensemble	
CHOICE 4:	History	4-6 Credits

MUSC 199	Music Appreciation			2
MUSC 240	World Music History I	1 A.		4
MUSC 241	World Music History II	5 S		4
MUSC 242	American Musical Theatre			2
MUSC 246	History of Blues and Jazz		1.1	2
MUSC 247	History of Rock and Roll		2	2
1				

MINIMUM TOTAL

NOTES:

 Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area.

69

 Courses may be repeated and must be taken each semester student is enrolled as a major for the credit total indicated for this CHOICE.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

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1	ļ	-121	IV	
BUSN 11	8 MUSC 16	64 ACCG 210	0 ACCG 211	
MATH 11	7 MUSC 19	94 MGMT 23	4 MTEC 121	
MUSC 1	63 MUSC-25	53 MTEC 120	MUSC 197	
MUSC 1	93 Lim. Ch.	1 MUSC 13	8 MUSC 254	
WRIT 12	7 Lim. Ch.	1 Lim. Ch. 2	Lim, Ch. 2	
Lim. Ch.	2 Lim, Ch. :	2 Lim. Ch. 3	Lim. Ch. 3	
Lim. Ch.	3 Lim. Ch.	3 Lim. Ch. 4	Lim. Ch. 4	
		+		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REGISTRAMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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2003-2005 Catalog Lansing Community College

PERFORMING ARTS

www.lcc.edu

SAGRED MUSIC GERTIFICATE OF COMPLETION

Curriculum Code: 0835 (Effective Fall 2003 - Summer 2008)

The Certificate program in Sacred Music is designed for those individuals interested in or already practicing music at their place of worship, and who wish to further develop their basic musical skills. Emphasis is on integrating fundamental knewiedge of music theory and keyboard with stylistic and practical skills generally required of sacred musicians. Course work also includes private performance studies (typically in organ, piano, voice, or guitar).

This is a selective admissions program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Humanities and Performing Arts Department, Arts and Sciences Building, Room 255, telephone number (517) 483-1018 or the LCC Admissions Office, Room 2300, Gannon Vocational-Technical Center, telephone number (517) 483-1254;

REQUIREMENTS FOR ADMISSION TO THE SACRED MUSIC CERTIFICATE OF COMPLETION PROGRAM

Curriculum Code: 0721

In order to be considered as a candidate for this program, students must complete the following requirements:

- a. Submit high school transcript or GED and all college transcripts.
- b. Interview with Performing Arts advisor to discuss curriculum requirements. Repertoire requirements for the audition pertaining to their specific instrument will be described in detail.
- c. Audition. The actual audition day will consist of a live performance on instrument or voice in front of a faculty panel. A theory test covering written and aural theory will also be administered on the audition day. Names of students passing this phase of the Selective Admissions will be forwarded to the Admissions Office for processing.

REQUIREME	NTS	TOTAL: 18 CREDITS
CODE	TITLE	CREDIT HOURS
MUSC 138	Class Piano Major I	. 2
MUSC 139	Class Piano Major II	2
MUSC 163	Aural Skills I	1
MUSC 164	Aural Skills II	1
MUSC 193	Basic Musicianship I	3
MUSC 194	Bašic Musicianship II	3
MUSC 197	Intro to Music Technologies	2
MUSC 221	Sacred Music: History & Styles	2
MUSC 222	Techniques in Sacred Music	
LIMITED CH	OICE REQUIREMENTS (See Note 1)	TOTAL: 4 CREDITS

LIMITED CHOICE REQUIREMENTS (See Note 1) Complete the indicated number of credits from each CHOICE listed below Applied Lesson I

MUSC 157 2 MUSC 158 Applied Lesson II

MINIMUM TOTAL

22

2

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE, STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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NOTE: Typically, practitioners of Sacred Music will take Applied Lessons in Keyboard (Piano or Organ), Voice or Guitar, though other performance specializations are possible. Applied Lessons must be taken each semester a student is enrolled as a major. Courses may be repeated, OR students may advance to MUSC 257 and MUSC 258 with Department Approval.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

	II .	· · · · · · · · · · · · · · · · · · ·
MUSC 138	MUSC 139	
MUSC 163	MUSC 164	
MUSC 193	MUSC 194	
MUSC 221	MUSC 197	
	MUSC 222	

2003-2005 Catalog Lansing Community

College

Curriculum Code: 0278 (Effective Fall 2003 - Summer 2008)

Theatre at LCC is designed to provide students as many opportunities to perform as possible and to focus students towards transfer to a four-year institution. A theatre major is part of a learning community: students take classes concurrently and work with the same group of students for two years. The theatre program concentrates on improvisation: Stanislavski method of script analysis and motivation, analysis of Shakespearean text, and individual and collaborative creativity. Graduation is dependent on successful participation in a minimum of four productions. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Humanities and Performing Arts Department, Arts and Sciences Building, Room 255, telephone number (517) 483-1018.

REQUIREMENTS (See Note 1)		TOTAL: 57 CREDITS	
CODE	TITLE	CREDIT HOURS	۰.
ARTS 102	Design & Communication	3	۰.
DANC 103	Beginning Jazz	2	
MUSC 182	Class Voice I	. 2	
PHYS 120	The Art of Physics	- 4	
THEA 110	Introduction to Theatre	. 3	
THEA 114	Intro to Technical Theatre	. 3	
THEA 120	Introduction to Acting	. 2	
THEA 131	Studio Theatre Performance I	, 1	
THEA 132	Studio Theatre Performance II	. 1	
THEA 141	Acting I - Contemporary	2.5	
THEA 143	Stage Voice for the Actor	3	
THEA 171	Dramatic Form and Function I	. 3	
THEA 173	Movement for the Actor	2	
THEA 181	Improvisation	2.5	
THEA 210	Theatre History	4	
THEA 233	Studio Theatre Performance III	1	
THEA 235	Studio Theatre Performance IV	. 2	
THEA 240	Acting II - Classics	2.5	
THEA 241	Acting III: Acting Styles	2.5	
THEA 260	Dramatic Form and Function II	3	
THEA 271	Dramatic Form and Function III	3	}
THEA 283	Audition Workshop	. 1	
WRIT 121	Composition I	. 4	•

TOTAL: 7-8 CREDITS LIMITED CHOICE REQUIREMENTS (See Note 2) Complete the indicated number of credits from each CHOICE listed below.

3-4 Credits CHOICE 1: General Education Core Areas (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area (See Note 3)	· 0
Global Perspectives and Diversity Core Area (See Note 4	\$) D
Mathematics Core Area	3-4
Science Core Area (See Note 3)	. 0
Writing Core Area (See Note 3)	0

CHOICE 2:	Global Perspectives an	d Diversity	4 Credits
HUMS 160	Mythology	and the second second second second second second second second second second second second second second second	. 4
HUMS 211	History of Art I	A	. 4
HUMS 212	History of Art II		. 4
HUMS 213	World Civilizations I		4
HUMS 214	World Civilizations II		- 4
MUSC 241	World Music History II	· · ·	4
			64
	RAINIERALISA TOTA		64

MINIMUM TOTAL

NOTES:

- 1. Students must consult a Theatre Program advisor prior to declaring a theatre major. Most required theatre courses are offered in a sequenced studio format, and students must obtain program approval to enroll.
- It is strongly recommended that students intending to transfer to four-year institutions meet additional course requirements as outlined in the MACRAO Transfer Agreement (see "Transfer Information"). Students should also consult appropriate Transfer Guides for specific four-year programs (available from Couseling and Advising).
- Students completing REQUIREMENTS have fulfilled the requirements for this 3 Core area.
- Students completing CHOICE 2 have fulfilled the requirements for this Core 4. area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

	ų	LI)	IV	
MUSC 182	THEA 114	DANC 103	ARTS 102	
THEA 110	THEA 132	THEA 210	PHYS 120	
THEA 120	THEA 143	THEA 233	THEA 235	
THEA 131	THEA 173	THEA 240	THEA 241	
THEA 141	THEA 181	THEA 260	THEA 271	
THEA 171	Lim, Ch. 1	Lim. Ch. 2	THEA 283	
WRIT 121	· · · ·			

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REGURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DECREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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PHOTOGRAPHIC IMAGING vw.lcc.edt

PHOTOGRAPHIC IMAGING ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0277 (Effective Fall 2003 - Summer 2008)

The field of photography is vast and diverse with a wide range of employment opportunities. Professionals include everyone from the traditional person with a camera, to a lab or service bureau employee, to someone working at a high-end computer station. Skill requirements fall into two categories, visual and technical. Visual skills include idea development, composition, lighting, and communication. Technical skills include practical and theoretical knowledge of cameras and other photographic-related equipment, light sensitive materials, processes, and digitalbased imaging equipment and software. A "photographer" may be self-employed, be a member of a small team, or be employed by a large company. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

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ransconStudents should see the Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

SPCH 12n

Contact the Visual Arts and Media Department, Academic and Office Facility, Room 208, telephone number (517) 483-1574.

REQUIREME	NTS	TOTAL: 50 CR	EDITS
CODE	TITLE	CREDIT	HOURS
ABTS 171.	Computer Graphics/Digital Imaging		3
ARTS 228	Advanced Digital Imaging		3
IMAG 111	Intro to Photographic Tech I		• 4
MAG 112	Design for Imaging Tech		3
IMAG 113	Lighting Concepts/Applications		3
IMAG 114	Intro Photographic Color Tech	· ·	3
IMAG 117	Intro to Photographic Tech II		4
IMAG 119	Intermediate Lighting	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	4
IMAG 210	Intermediate Color Ap and Tech		3
IMAG 212	Large Format Photography		2
IMAG 213	Portrait Photography		2
IMAG 214	Photojournalism		2
IMAG 215	Photo Imaging Technology		2
IMAG 233	The Business of Photography		2
IMAG 234	Portfolio Assembly/Degree Comp (See Not	e 1)	з
MATH 118	The Art of Geometry		3
PHYS 120	The Art of Physics		4

LIMITED CHOICE REQUIREMENTS TOTAL: 12-14 CREDITS

Dynamics of Communication

Complete the indicated number of oredits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 6-8 Credits (See General Education Core Requirements for information on how to fulfill these

requirements. Core area proficiency exams, where appropriate, are available for each coré area.) inication Core Area (See Mote 2)

	Communication Core Area (See Note 2)		0
	Global Perspectives and Diversity Core Area		3-4
	Mathematics Core Area (See Note 3)		0
	Science Core Area (See Note 3)		0
	Writing Core Area		3-4
	and the second second second second second second second second second second second second second second second		
CHOICE 2:	Communication Core Area	3	Credits
SPCH 110	Oral Communic in the Workplace		Э

	· · · · · · · · · · · · · · · · · · ·	·		
CHOICE 3:	Special Interest		3 C	redits
FILM 118	Film Production F			4
IMAG 191	Photo Imaging Special Topics	·		1:
IMAG 192	Photo Imaging Special Topics	14 - Alexandria -		2
IMAG 193	Photo Imaging Special Topics		25	3
IMAG 228	Independent Study			· 3
IMAG 229	Advanced Imaging Applications		1.	1
IMAG 232	Internship	the second second		. 3
IMAG 238	Project Lab Independent Study			⊡-3
IMAG 240	Internship	· · · ·		- 4
MTEC 150	TV Production			- 4
	5515 115 41 12 5 TOTA 1			. 00

MINIMUM TOTAL

NOTES:

- The Portfolio is considered to be the final course in this curriculum. All imag-1 ing and non-photo courses must be completed or be taken concurrently with IMAG 234.
- Students completing CHOICE 2 have fulfilled the requirements for this Core 2. area.
- Students completing REQUIREMENTS have fulfilled the requirements for this З. Core area
- 4. Students completing this curriculum have the option of doing so through a two-year, full-time sequence of courses or through part-time enrollment over a longer period. The full-time sequence begins most efficiently in the Fall Semester. Part-time students may begin their studies any semester.
- For graduation, a student must have earned a minimum actual grade of 2.0 in 5. all courses taken to satisfy the course credits required in this curriculum.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

٠ŧ	ß	131	. IV
IMAG 111	ARTS 171	ARTS 228	IMAG 215
IMAG 112	IMAG 114	IMAG 210	IMAG 233
IMAG 113	IMAG 117	IMAG 212	IMAG 234
Lim.Ch.1	IMAG 119	IMAG 213	MATH 118
Lim.Ch.2	a di seconda IMAG 214	Lim.Ch.1	
	4	PHYS 120	. Lim.Ch.3

Honoris CERTIFICATE OF COMPLETION

Curriculum Code: 0963 (Effective Fall 2003 - Summer 2008)

This certificate program is designed to provide students with the necessary technical knowledge and skills needed to qualify for entry level photographic support positions. All of the course work may be applied toward the Photographic Imaging Technology Associate in Applied Science Degree.

REQUIREM	ENTS	т	DTAL: 27 CH	EDITS
CODE -	TITLE		CREDU	FHOURS
ARTS 171	Computer Graphics/Digital Imag			3
IMAG 111	Intro to Photographic Tech I			4
IMAG 112	Design for Imaging Tech			3
IMAG 113	Lighting Concepts/Applications			3
IMAG 114	Intro Photographic Color Tech			- 3
IMAG 117	Intro to Photographic Tech II		x**	4
IMAG 119	Intermediate Lighting	· .		• 4
IMAG 210	Intermediate Color Ap and Tech			3
	MINIMUM TOTAL	$\sim r^{-2}$	·.	27

NOTES:

Students may be required to purchase additional supplies, materials, and/or 1. equipment not covered by course fees.

SUGGESTED COURSE SEQUENCE

1	11	MI	
IMAG 111	IMAG 114	ARTS 171	·
IMAG 112	IMAG 117	IMAG 210	
IMAG 113	IMAG 119	·	

STUCENTS ARE RESPONSIBLE FOR COMPLETING ALL RECURREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE

3

REAL ESTATE

2003-2005 Catalog Lansing Community

College

REAL ESTATE ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0130 (Effective Fall 2003 - Summer 2008)

Real estate agents rent, buy, and sell property for clients on a commission basis. Agents may study property listings to learn about what is for sale; keep informed of property values, market conditions and mortgage options; find prospects and develop leads and reterrals; interview prospective clients to solicit-listings; show property sites; draw up listings and contracts; negotiate loans on property; prepare marketing plans using advertising strategies such as open houses; and assist clients with available mortgage options. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREME	REQUIREMENTS		L: 36 C	REDITS
CODE	TITLE	1	CRED	IT HOURS
MGMT 234	Diversity in the Workplace	·····		3
MKTG 1191.	Mktg/Manage Your Protess Image		2.	3
MKTG 120	Sales	e.		3
MKTG 200	Principles of Marketing		1	3
REAL 273	Real Estate Investment			3
REAL 274	Real Estate License Exam			3
REAL 275	Real Estate Financing			3
REAL 277	Property Management			3
REAL 279	Residential Appraisal			. 3
REAL 280	Real Estate Law			Э
SPCH 110	Oral Communic in the Workplace			. 3
WRIT 127	Business Writing			3
	the generation of the second se			-

LIMITED CHOICE REQUIREMENTS TOTAL: 24-28 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 7-9 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area (See Note 1) Global Perspectives and Diversity Core Area (Se Mathematics Core Area Science Core Area Writing Core Area (See Note 1)	e Note 1)	0 0 3-4 4-5 0
	Ŭ,		
CHOICE 2:	Accounting	3-4 C	
ACCG 100	Practical Accounting Non-Major		3
ACCG 101	Accounting Info for Management		3
ACCG 210	Principles of Accounting I		• 4
CHOICE 3:	Real Estate Related (See Note 2)	10 C	redits
ARCH 100	Intro to Architecture Drawing		3
BLDT 100	Introduction to Construction		3
BUSN 118	Introduction to Business		з
BUSN 295	Small Business Management		з
CIVI. 120	Surveying		3 4
ECON 201	Principles of Economics-Micro		3
ECON 202	Principles of Economics-Macro		3
LEGL 217	Busn Law III, Busn Organiza		3
LEGL 221	Real Estate Transaction	;	3
MGMT 225	Principles of Management		. 3
MGMT 228 🕚	Organizational Behavior		3
MGMT 239	Time and Stress Management		3
MKTG 140	Introduction to Advertising		3
MKTG 210	Marketing on the Internet		3
MKTG 229	Public Relations		2
REAL 271	Introduction to Real Estate	•	2

CHOICE 4:	Computer Related (See Note 3)			4-5 Credit:	
	641511551105 TOTA			÷	cr

NOTES:

- 1. Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area.
- Students should confer with a Business Department program advisor to assure that selection of Limited Choice courses will best fit their career plans.
- Choose CABS-prefix courses of 110 or above.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school; or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	11	#11	IV	
MKTG 119	MKTG 120	MKTG 200	MGMT 234	
REAL 274	REAL 275	REAL 273	REAL 277	:
SPCH 110	REAL 280	REAL 279	Lim.Ch.	
WRIT 127	Lim.Ch.	Lim.Ch.	Lim.Ch.	2
Lim.Ch.	Lim,Ch,	Lim:Ch.	Lim.Ch.	

REAL ESTATE CERTIFICATE OF COMPLETION

Curriculum Code: 0148 (Effective Fall 2003 - Summer 2008)

Certificate holders may improve their opportunities for advancement in this or a related area. Additional education enhances an individual's employment opportunities.

REQUIREMENTS			тс	TAL: 15	CREDITS
CODE	TITLE			CRE	DET HOURS
MKTG 120	Sales	· ·			3
REAL 273	Real Estate Investment				. 3
REAL 275	Real Estate Financing	· ·	$f = -\rho$		3
REAL 279	Residential Appraisal				3
REAL 280	Real Estate Law	1.1			· 3

LIMITED CHOICE REQUIREMENTS TOTAL: 5-6 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	Real Estate Basics		*	5-6 Credits	
MKTG 119	Mktg/Manage Your Profess Image		ta da sur e	. 3	
REAL 271	Introduction to Real Estate			. 2	
REAL 274	Real Estate License Exam	- 1		., 3	
REAL 277	Property Management		· ·	3	

MINIMUM TOTAL

SUGGESTED COURSE SEQUENCE

1	¥1				
MKTG 120	REAL 275	,			
REAL 273	REAL 280			<i>.</i>	
REAL 279	Lim.Ch.			4.	
Lim.Ch.					

STUDENTS ARE RESPONSELE FOR COMPLETING ALL REDUIREMENTS AS STATED. THE DRLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER THRU INTEND TO GRADUATE.

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www.lcc.edu

CHEMICAL PROCESS TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE 11 ਤੇ ਦੀ ਤੇ ਕੋੜ

Curriculum Code: 0859 (Effective Fall 2003 - Summer 2008)

Chemical Process Technologists are trained for employment as process operators in the chemical and related industries. Process operators are required to maintain safety, health and environmental standards in the plant; handle, store and transport chemicals; operate, monitor and control continuous and oatch processes; and participate in routine and preventative maintenance of equipment and instrumentation. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

SCIN 287

Contact the Science Department, Arts and Sciences Building, Room 408, telephone number (517) 483-1092.

	NTS	TOTAL: 43 CREDITS
CODE	TITLE	CREDIT HOURS
CHEM 151	General Chemistry Lecture	4
CHEM 152	General Chemistry Lecture II	_ · 3
CHEM 161	General Chemistry Lab I	- 1
CHEM 162	General Chemistry Lab II	1
CHEM 182	Introductory Organic Chemistry	3
CHEM 192	Intro Organic Chemistry Lab	. 1
CHEM 211	Chemical Process Technology I	. 4
CHEM 262	Quantitative Analysis	2
CPSC 120	Introduction to Computers	3
ENVR 131	Industrial Process Safety	. 3
FIRE 220	Hazardous Materials/Fire Ser	· 4
MATH 121	College Algebra I	. 4
SOCL 120	Introduction to Sociology	4
SPCH 110	Oral Communic in the Workplace	
STAT 170	Introduction to Statistics	- 3
SIAL IN		
	DICE REQUIREMENTS indicated number of credits from ea	TOTAL: 18-21 CREDITS ch CHOICE listed bêlow.
	,	
	ea.) Communication Core Area <i>(See N</i> Global Perspectives and Diversity	ote 1) Core Area <i>(See Note 1)</i> C
	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note	ote 1) 0 Core Area <i>(See Note 1)</i> 0
	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1)	ote 1) 0 Core Area <i>(See Note 1)</i> 0 1) 0
•	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note	ote 1) C Core Area <i>(See Note 1)</i> C 1) C
each core an	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2)	ote 1) Core Area <i>(See Note 1)</i> 1) C
each core an CHOICE 2:	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3)	ote 1) C Core Area <i>(See Note 1)</i> C 1) C C C 3-4 Credits
each core an CHOICE 2: WRIT 121	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3) Composition 1	ote 1) 0 Core Area (See Note 1) 0 1) 0 3-4 Credits 4
each core an CHOICE 2: WRIT 121	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3)	ote 1) 0 Core Area (See Note 1) 0 1) 0 3-4 Credits 4
each core an CHOICE 2: WRIT 121 WRIT 124	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3) Composition 1 Technical Writing	ote 1) 0 Cote Area <i>(See Note 1)</i> 0 1) 0 3-4 Credits 2 3
CHOICE 2: WRIT 121 WRIT 124 CHOICE 3:	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3) Composition 1 Technical Writing Physics	ote 1) 0 Core Area (See Note 1) 0 1) 0 3-4 Credits 4
CHOICE 2: WRIT 121 WRIT 124 CHOICE 3: PHYS 200	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3) Composition 1 Technical Writing Physics Applied Physics	ote 1) Core Area (See Note 1) Core Area (See Note 1) Core 1) Core 1) Core 1) Core 1) Core 1 1) Core 1) Core 1 3-4 Credits 2 Core 1 Core 1) Core 1 Core 1 Core 1 Core 1) Core 1 Core 1
CHOICE 2: WRIT 121 WRIT 124 CHOICE 3: PHYS 200	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3) Composition 1 Technical Writing Physics	ote 1) Core Area (See Note 1) Core Area (See Note 1) Core 1) Core 1) Core 1) Core 1) Core 1 1) Core 1) Core 1 3-4 Credits 2 Core 1 Core 1) Core 1 Core 1 Core 1 Core 1) Core 1 Core 1
CHOICE 2: WRIT 121 WRIT 124 CHOICE 3: PHYS 200 PHYS 221	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3) Composition 1 Technical Writing Physics Applied Physics Introductory Physics 1	ote 1) Core Area (See Note 1) Core Area (See Note 1) Core 1) C
CHOICE 2: WRIT 121 WRIT 124 CHOICE 3: PHYS 200 PHYS 221 CHOICE 4:	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3) Composition 1 Technical Writing Physics Applied Physics Introductory Physics 1 ELECTIVES	ote 1) Core Area (See Note 1) Core Area (See Note 1) Core 1) C
CHOICE 2: WRIT 121 WRIT 124 CHOICE 3: PHYS 200 PHYS 221 CHOICE 4: ENVR 121	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3) Composition 1 Technical Writing Physics Applied Physics Introductory Physics 1 ELECTIVES Environmental Rules and Regs	ote 1) Core Area (See Note 1) Core Area (See Note 1) Core 1) Core 1) Core 1) Core 1) Core 1 3-4 Credits 2 TOTAL: 4 Credits 2 TOTAL: 11-13 CHEDITS 2 Core 1) Core 1 Core 1 Core 1) Core 1 Core 1 Core 1) Core 1 Core 1
CHOICE 2: WRIT 121 WRIT 124 CHOICE 3: PHYS 200 PHYS 221 CHOICE 4: ENVR 121 ENVR 122	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3) Composition 1 Technical Writing Physics Applied Physics Introductory Physics 1 ELECTIVES Environmental Rules and Regs Enviro Sampl & Instrumentation	ote 1) Core Area (See Note 1) Core Area (See Note 1) Core 1) Core 1) Core 1) Core 1) Core 1 3-4 Credits 2 3-4 Credits 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5
CHOICE 2: WRIT 121 WRIT 124 CHOICE 3: PHYS 200 PHYS 221 CHOICE 4: ENVR 121 ENVR 122 ELTE 100	ea.) Communication Core Area (See N Global Perspectives and Diversity 1 Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3) Composition 1 Technical Writing Physics Applied Physics Introductory Physics I ELECTIVES Environmental Rules and Regs Environmental Rules and Regs Environmental Sules and Regs	ote 1) Core Area (See Note 1) Core Area (See Note 1) Core 1) C
CHOICE 2: WRIT 121 WRIT 124 CHOICE 3: PHYS 200 PHYS 221 CHOICE 4: ENVR 121 ENVR 122 ELTE 100 ELTE 110	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3) Composition I Technical Writing Physics Applied Physics Introductory Physics I ELECTIVES Environmental Rules and Regs Enviro Sampi & Instrumentation Electrical Safety Practices Practical Electricity	ote 1) Core Area (See Note 1) Core Area (See Note 1) Core 1) C
CHOICE 2: WRIT 121 WRIT 124 CHOICE 3: PHYS 200 PHYS 221 CHOICE 4: ENVR 121 ENVR 122 ELTE 100 ELTE 110 MACH 135	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3) Composition I Technical Writing Physics Applied Physics Introductory Physics I ELECTIVES Environmental Rules and Regs Enviro Sampl & Instrumentation Electrical Safety Practices Practical Electricity Metallurgy and Heat Treat	ote 1) Core Area (See Note 1) Core Area (See Note 1) Core 1) C
CHOICE 2: WRIT 121 WRIT 124 CHOICE 3: PHYS 200 PHYS 221 CHOICE 4: ENVR 121 ENVR 122 ELTE 100 ELTE 110	ea.) Communication Core Area (See N Global Perspectives and Diversity Mathematics Core Area (See Note Science Core Area (See Note 1) Writing Core Area (See Note 2) Writing (See Note 3) Composition I Technical Writing Physics Applied Physics Introductory Physics I ELECTIVES Environmental Rules and Regs Enviro Sampi & Instrumentation Electrical Safety Practices Practical Electricity	ote 1) Core Area (See Note 1) Core Area (See Note 1) Core 1) C

Science Technology Internship

MINIMUM TOTAL

NOTE:

- 1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Students completing CHOICE 2 have fulfilled the requirements for this Core 2.
- area 3. WRIT 121 is recommended for students planning to transfer.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the coursesequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	8	~	IV
CHEM 151	CHEM 152	CHEM 262	CHEM 182
CHEM 161	CHEM 162	STAT 170	CHEM 192
CPSC 120	FIRE 220	Lim. Ch. 3	CHEM 211
MATH 121	SOCL 120	Lim, Ch. 4	ENVR 131
Lim. Ch. 2	SPCH 110		-Lim. Ch. 4
	Lim. Ch. 4		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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LANSING COMMUNITY COLLEGE CATALOG 2003-2005 # 187

CHEMICAL PROCESS TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0860 (Effective Fall 2003 - Summer 2008)

This program will qualify students for immediate employment in the chemical or chemical-related industries as chemical process technicians. In this capacity, employees are involved in the direct manufacture of products - monitoring, calibrating and maintaining equipment used in the production process. Additionally, they would practice quality assurance standards, environmental regulations, and safety procedures. Students may also elect to apply their certificate credits toward a two-year associates degree in this area.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Science Department, Arts and Sciences Building, Room 408, telephone number (517) 483-1092.

REQUIREMEN	VTS	TOTAL: 18 CREDITS			
CODE	TITLE	CREDIT HOURS			
CHEM 151	General Chemistry Lecture I	4			
CHEM 161	General Chemistry Lab I	1			
CHEM 182	Introductory Organic Chemistry	3			
CHEM 192	Intro Organic Chemistry Lab	: 1			
CPSC 120	Introduction to Computers.	· 3			
SPCH 110	Oral Communic in the Workplace	3			
WRIT 124	Technical Writing	3			
LIMITED CHOICE REQUIREMENTS TOTAL: 15-16 CREDITS Complete the indicated number of credits from each CHOICE listed below.					
CHOICE 1: Subchoice 14	Mathematics (Choose one subchoice)	7-8 Credits			
MATH 112	Intermediate Algebra	. 4			
QUAL 103	Probability/Stats Qual Assur	. 4			
Subchoice 18	8				
MATH 121	College Algebra I	4			
STAT 170	Introduction to Statistics	3			
CHOICE 2:	Electives	Total: 8 Credits			
CHEM 211	Chemical Process Technology 1	4			
PHYS 200	Applied Physics	. 4			
QUAL 100	Intro Quality Assurance	. 4			
	MINIMUM TOTAL	33			
NOTE:	۰ ۰				

1. A minimum grade of 2.0 is required in MATH 112, PHYS 200, CHEM 151 and CHEM 182,

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

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CHEM 151	CHEM 182		,		
CHEM 161	CHEM 192		1		
CPSC 120	SPCH 110	 			
Lim. Ch. 1	WRIT 124 *				
Lim. Ch. 2	Lim, Ch. 1				
1 A A	Lim, Ch. 2			· .	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

188 E LANSING COMMUNITY COLLEGE CATALOG 2003-2005

CHEMICAL TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0163 (Effective Fall 2003 - Summer 2008)

Graduates with associate degrees in Chemical Technology are much in demand by the chemical industry. This program prepares students to work with chemists and chemical engineers in many settings. Research, development, and production of pharmaceuticals, agricultural chemicals, and plastics as well as related functions such as sales and technical writing are some of the opportunities that are available to persons with this type of training. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Science Department, Arts and Sciences Building, Room 408, telephone number (517) 483-1092.

REQUIREMENTS		TOTAL: 4	2 CREDITS
CODE	TITLE	· · · (REDIT HOURS
CHEM 151	General Chemistry Lecture I		4
CHEM 152	General Chemistry Lecture II		3
CHEM 161	General Chemistry Lab I		1
CHEM 162	General Chemistry Lab II		. 1
CHEM 211	Chemical Process Technology I	•	4
CHEM 251	Organic Chemistry Lecture I		4
CHEM 252	Organic Chemistry Lecture II		- 4
CHEM 262	Quantitative Analysis		2
CHEM 272	Organic Chemistry Laboratory	· .	2
CPSC 120	Introduction to Computers		- 3
PHYS 221	Introductory Physics I		4.
SOCL 120	Introduction to Sociology	·	4.
SPCH 120	Dynamics of Communication		. 3
STAT 170	Introduction to Statistics	1	3

LIMITED CHOICE REQUIREMENTS

Complete the indicated number of credits from each CHOICE listed below.

TOTAL: 22-27 CREDITS

CHOICE 1:	General Education Core Areas	0 Credits
(See General	I Education Core Requirements for information on how t	to fulfill these
requirements.	. Core area proficiency exams, where appropriate, are	available for
leach core are	ea ì	

	Communication Core Area (See Note 1)	. 0
	Global Perspectives and Diversity Core Area (-	See Note 1) 0
	Methematics Core Area (See Note 2)	0
	Science Core Area (See Note 1)	0
	Writing Core Area (See Note 3)	0
CHOICE 2:	Mathematics (Choose one subchoice)	5-7 Credits
Subchoice 2	A:	
MATH 121	College Algebra I	4
MATH 122	College Algebra II and Trig	·. 3·
Subchoice 2	B:	1
MATH 126	Collage Algebra and Trig	5
CHOICE 3:	Writing (See Note 4)	3-4 Credits
WRIT 121	Composition I	4
WRIT 124	Technical Writing	- 3

SCIENCE	

CHOICE 4:	Electives			14-16	Credits
BIOL 127	Cell Biology			N .	4
BIOL 203	Microbiology			`	3
BIOL 204	Microbiology Laboratory	4			1
ENVR 121	Environmental Rules and Regs				3
ENVR 122	Enviro Sampl & Instrumentation				. 4
ENVR 131	Industrial Process Safety				3
FIRE 220	Hazardous Materials/Fire Ser				.4
PHYS 222	Introductory Physics II				. 4
SCIN 287	Science Technology Internship				4
WRIT 122	Composition II				4

MINIMUM TOTAL

NOTE:

- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- 2. Students completing CHOICE 2 have fulfilled the requirements for this Core area.
- Students completing CHOICE 3 have fulfilled the requirements for this Core area.
- 4. WRIT 121 is recommended for students planning to transfer.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

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CHEM 151	CHEM 152	CHEM 251	CHEM 211	
CHEM 161	CHEM 162	CHEM 262	CHEM 252	
SPCH 120	CPSC 120	PHYS 221	CHEM 272	
Lim. Ch. 2	STAT 170	SOCL 120	Lim. Ch.,4	
Lim, Ch, 3	Lim. Ch. 4	Lim. Ch. 4	Lim. Ch. 4	
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STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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ENVIRONMENTAL TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREI

Curriculum Code: 0793 (Effective Fall 2003 - Summer 2008)

Environmental Technicians may work for environmental/engineering consulting firms, local or state regulatory agencies, manufacturers, recycling and waste management companies and local utility and public service (works) departments. They perform tasks such as environmental sample collection and monitoring, instrument calibration, report writing and data management. Environmental Technicians may help clients comply with governmental environmental standards, assist in field investigations, work as a team member on a waste or contamination site. They use computer skills to work with environmental data as well as the concepts of chemistry, biology, meteorology, geology and hydrology to help professionals determine the movement and effects of environmental contaminants. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Science Department, Arts and Sciences Building, Room 408, telephone number (517) 483-1092.

REQUIREMENTS		TOTAL: 49 CREDITS	
CODE	TITLE	CREDIT HOURS	
BIOL 210	Natural Resource Conservation	4	
-CHEM 151	General Chemistry Lecture 1	4	:
CHEM 152	General Chemistry Lecture II	. 3	
CHEM 161	General Chemistry Lab I	1.	
CHEM 162	General Chemistry Lab II	1	
CPSC 120	Introduction to Computers	3	
ENVR 121	Environmental Rules and Regs	3	
ENVR 122	Enviro Sampl & Instrumentation	4	
ENVR 131	Industrial Process Safety	3	
FIRE 220	Hazardous Materials/Fire Ser	. 4	
GEOL 230	Environmental Geology	, 4	
MATH 121	College Algebra I	4	
SOCL 120	Introduction to Sociology	4	
SPCH 120	Dynamics of Communication	3	
WRIT 121	Composition I	4	
	· · · · · · · · · · · · · · · · · · ·		

LIMITED CHOICE REQUIREMENTS (See Note 1) TOTAL: 14-17 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas (See Note 2) 0 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.) Communication Core Area 0

Communication Core Area			
Global Perspectives and Diversity Core Area			
Mathematics Core Area	٠		
Science Core Area			
Writing Core Area			

CHOICE 2:	Environmentally Related Courses	14-1	7 Credits
BIOL 128	Organismal Biology		4
BIOL 203	Microbiology		3
BIOL 204	Microbiology Laboratory	1. No. 1	1
CHEM 182	Introductory Organic Chemistry		3
CHEM 192	Intro Organic Chemistry Lab		1
GRET 203	Beginning MicroStation		3
GRET 220	Hydrological Systems		3 '
GRET 255	Beginning ARC/Info		· · 3
POLS 120	American Political System		4
SCIN 287	Science Technology Internship		4
STAT 170	Introduction to Statistics	· · ·	3

MINIMUM TOTAL

NOTES:

- It is strongly recommended that students intending to transfer to four-year institutions meet additional course requirements as outlined in the MACRAO Transfer Agreement (see "Transfer Information"). Students should also consult appropriate Transfer Guides for specific four-year programs (available from Counseling and Advising).
- 2. Students completing REOUIREMENTS have fulfilled the requirements for these Core areas.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

I.	:	16	rv .
BIOL 210	CHEM 152	ENVR 122	ENVR 121
CHEM 151	CHEM 162	GEOL 230	ENVR 131
CHEM 161	CPSC 120	SOCL 120	SPCH 120
MATH 121	FIRE 220	Lim. Ch. 2	Lim, Ch. 2
WRIT 121	Lim. Ch. 2		Lim. Ch. 2
Lim. Ch. 2			

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190 B LANSING COMMUNITY COLLEGE CATALOG 2003-2005

SCIENCE

IISTOLOGIC TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0923 (Effective Fall 2003 - Summer 2008)

Histologic Technicians work under the supervision of a pathologist to prepare tissue specimens for diagnosis. They perform gross tissue preparation and laboratory procedures to show microscopic structure. Histologic Technicians solve problems, demonstrate ethics and patient confidentiality, and use chemical safety and universal precautions. Histologic Technicians work together with laboratory personnel to provide doctors with information for making a diagnosis. To work in most laboratory facilities. Histologic Technicians must be certified by the American Society of Clinical Pathologists (ASCP), 2100 W. Harrison Street, Chicago, Illinois, 60612-3798. This curriculum is intended for students who have been admitted to the joint LCC/Capital Area Career Center Histologic Technology Program. Curriculum is approved by the National Accrediting Agency for Clinical Laboratory Services (NAACLS), 410 W. Bryn Mawr Avenue, Suite 670, Chicago, Illinois, 60675-5634. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the College. Many of the courses for this program are open only to students officially admitted to the Histologic Technology Program.

PREREQUISITES

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Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Science Department, Arts and Sciences Building, Room 408, telephone number (517) 483-1092 or The Capital Area Career Center at (517) 244-1303.

REQUIREMENTS FOR ADMISSION TO THE HISTOLOGIC TECHNOLOGY PROGRAM

For current information about admission requirements, students must contact the Science Department; Arts and Sciences Building, Room 408, telephone number (517) 483-1092 or the LCC Admissions Office, Suite 2300, Gannon Vocational Technical Center, telephone number (517) 483-1254.

REQUIREMENTS			TOTAL: 35	CREDITS
CODE	TITLE		CRE	DIT HOURS
BIOL 127	Cell Biology			4
BIOL 201	Human Anatomy			4
BIOL 270	Human Genetics			3
CHEM 151	General Chemistry Lecture I		•	4
CHEM 161	General Chemistry Lab I			1
CPSC 120	Introduction to Computers			<u>́</u> З
MATH 112	Intermediate Algebra			• 4
SCIS 297	Independent Study in Science			1
SOCL 120	Introduction to Sociology		• •	4
SPCH 120	Dynamics of Communication			З
WRIT 121	Composition I			4
Completion	of the accredited Capital Area Care	er Cen	iter	

Histologic Technology Program Certification by the ASCP (see Note 1)

LIMITED CHOICE BEOUIREMENTS Complete the indicated number of credits from each CHOICE listed below.

TOTAL: 11 CREDITS

62

General Education Core Areas (See Note 2) 0 Credits CHOICE 1: (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

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	Communication Core Area		0
	Global Perspectives and Diversity Core Area	9	. 0
	Mathematics Core Area		· 0
	Science Core Area		0
	Writing Core Area	1.11	0
CHOICE 2:	Electives	, i	11 Credits
BIOL 203	Microbiology		· 3
BIOL 204	Microbiology Laboratory		. 1
BIOL 275	Molecular Biology I		. 4
BIOL 276	Molecular Biology II		4
MATH 121	College Algebra I		• 4
SCIN 287	Science Technology Internship		. 4
STAT 170	Introduction to Statistics		. 3
WRIT 122	Composition II		4
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MINIMUM TOTAL

NOTES:

- 1. The specific histologic technique courses necessary to prepare for this certification must be taken at the Capital Area Career Center or, students who have prepared for the certification exam in another program may apply for "Credit For Previously Acquired Knowledge and Learning Experience." See the "Student Records" section of this catalog.
- Students completing REQUIREMENTS have fulfilled the requirements for 2. these Core areas.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

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SCIS 297	BIOL 127	BIOL 201	BIOL 270	
	MATH 112	CHEM 151	SOCL 120	
	SPCH 120	CHEM 161	Lim. Ch. 2	
	WRIT 121	CPSC 120	Lim. Ch. 2	
		Lim. Ch. 2		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL RECORDEMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRATS OFFICE THAT IS INITIATED WHEN TIDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE

16 Credits

HISTOLOGIC TECHNICIAN CERTIFICATE OF COMPLETION

Curriculum Code: 0965 (Effective Fail 2003 - Summer 2008)

Histologic Technicians work under the supervision of a pathologist to prepare tissue specimens for diagnosis. They perform gross tissue preparation and laboratory procedures to show microscopic structure. Histologic Technicians solve problems, demonstrate ethics and patient confidentiality, and use chemical safety and universal precautions. Histologic Technicians work together with laboratory personnel to provide doctors with information for making a diagnosis. To work in most laboratory facilities, Histologic Technicians must be certified by the American society of Clinical Pathologists (ASCP), 2100 W. Harrison Street, Chicago, Illinois, 60612-3798. This curriculum is intended for students who have been admitted to the joint LCC/Ingham Intermediate Histologic Technician Certificate Program. Students receive a certificate upon completion and are eligible to take the HT Board of Registry Exam. The certificate program leads into the Associate in Applied Science Degree in Histologic Technology which students are strongly encouraged to complete for more employment options. Curriculum is approved by the National Accrediting Agency for Clinical Laboratory Services (NAACLS), 410 W. Bryn Mawr Avenue, Suite 670, Chicago, Illinois, 60675-5634.

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the College. Many of the courses for this program are open only to students officially admitted to the Histologic Technician Certificate Program.

PREAEQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Science Department, Arts and Sciences Building, Room 408, telephone number (517) 483-1092 or The Capital Area Career Center at (517) 244-1303.

REQUIREMENTS FOR ADMISSION TO THE HISTOLOGIC TECHNOLOGY PROGRAM

For current information about admission requirements, students must contact the Science Department, Arts and Sciences Building, Room 408, telephone number (517) 483-1092 or the LCC Admissions Office, Room 2300, Gannon Vocational Technical Center, telephone number (517) 483-1254.

REQUIREME	INTS	TOTAL: 24 CREDITS
CODE	TITLE	CREDIT HOURS
SCIN 287	Science Technology Internship	4
SCIS 296	Directed Histotech Studies (See Note 1)	4
SCIS 297	Independent Study in Science	4
	1	1

MINIMUM TOTAL

NOTES:

 Students must enroll in SCIS 296 four times for a total of 16 credits. For High School students enrolled in the joint LCC/Capital Area Career Center Histologic Technician Certificate Program, the SCIS 296 credits will be articulated.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Student who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

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SCIS 296	SCIS 296	SCIS 296	SCIS 296	
			SCIS 297	
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SCIN 287	•			.*
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STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE 'ONLY OPPICIAL ECOLUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS WITHATED WHEN STUDENTS APPLY FOR A DEGREE OR CERDENCATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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MOLECULAR BIOTECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0212 (Effective Fall 2003 - Summer 2008)

The Biotechnology program is a laboratory-intensive curriculum which emphasizes the wide-ranging applications of recombinant DNA technology (genetic engineering) including the preparation of gene libraries, Polymerase Chain Reaction, and DNA "fingerprinting". Graduates of this program will be able to work in many exciting areas of, biotechnology, such as human genetic disease research, improvement of disease-resistance in plants, enhanced crop production, pharmaceutical research, biological cleanup of environmental pollution, or genome sequencing projects. Near the end of the program the Science Department will make every effort to arrange for Internships in university or industrial research laboratories for students who wish to gain further experience. If you plan to transfer to a four-year school, please see an academic advisor or counselor before enrolling. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

MATH 126

Contact the Science Department, Arts and Sciences Building, Room 408, telephone number (517) 483-1092.

REOUIREMENTS		37	TOTAL: 42 CR	EDITS
CODE	TITLE .		CREDA	FHOURS
BIOL 127	Cell Biology		-	4
BIOL 275	Molecular Biology I (See Note 1)			4 -
BIOL 276	Malecular Biology II			4
CHEM 151	General Chemistry Lecture 1			4
CHEM 152	General Chemistry Lecture II			Э
CHEM 161	General Chemistry Lab I			1
CHEM 162	General Chemistry Lab II			1.
CHEM 251	Organic Chemistry Lecture I			4
CHEM 252	Organic Chemistry Lecture II			4
CHEM 272	Organic Chemistry Laboratory			2
SOCL 120	Introduction to Sociology			4
SPCH 120	Dynamics of Communication			3
WRIT 121	Composition I			4
	· · · ·			

LIMITED CHOICE REQUIREMENTS TOTAL: 19-21 CREDITS

College Algebra and Trig

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 0 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area (See Note 2)	0.
	Global Perspectives and Diversity Core Area (See Note 2)	0·
	Mathematics Core Area (See Note 3)	. 0
	Science Core Area (See Note 2)	0
	Writing Core Area (See Note 2)	0
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CHOICE 2:	Mathematics 4-5 Cr	adits
MATH 121	College Algebra I	Α

	 www.icc.euu

CHOICE 3:	Electives	15-16 Credits
BIOL 128	Organismal Biology	. 4
BIOL 203	Microbiology	3
BIOL 204	Microbiology Laboratory	1
BIOL 260	Botany	. 4
CHEM 211	Chemical Process Technology I	4
: CPSC 120	Introduction to Computers	3
PHYS 221	Introductory Physics I	4
SCIN 287	Science Technology Internship	4
STAT 170	Introduction to Statistics	3
WRIT 122	Composition II	4

MINIMUM TOTAL

NOTES:

- Students are strongly urged to complete BIOL 127 and CHEM 161 before enrolling in BIOL 275.
- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Students completing CHOICE 2 have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	ß	18	IV -	N.,
BIOL 127	CHEM 152	BIOL 275	BIOL 276	
CHEM 151	CHEM 162	CHEM 251	CHEM 252	
CHEM 161	WRIT 121	Lim. Ch. 3	CHEM 272	÷.,
SPCH 120	Lim. Ch. 3	Lim. Ch. 3	SOCL 120	
Lim. Ch. 2	Lim. Ch. 3 . •	t in	: Lim. Ch. 3	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUOIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS UNITALED WHEN. STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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VETERINARY TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0287 (Effective Fall 2003 - Summer 2008)

Veterinary technicians are professionals dedicated to animal health care. They are vital members of the veterinary medical team and are trusted with diverse medical responsibilities, including animal nursing care, life support, laboratory specimen analysis, physical therapy, surgical assistance, anesthesia, dental hygiene, X-ray imaging, nutritional management, and client education. The variety in veterinary technology makes it a challenging medical career for those who enjoy working with animals and people. Career opportunities exist with veterinary hospitals, biomedical research institutions, 'zoological parks, and other animal care facilities.

Students interested in this curriculum must apply to the joint LCC/MSU Veterinary Technology Program. Students accepted to the Veterinary Technology Associate Degree Program at LCC must also apply to the MSU Veterinary Technology Program in the Spring. Admission is competitive. Successful applicants would start attending classes at the MSU Veterinary School the following January. Students are advised to have a strong background in biology, chemistry, algebra and computer science. Students are encouraged to actively seek experience in the veterinary clinical setting. This experience will help students form the foundation for career development, prior to enrolling in a college curriculum. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Science Department, Arts and Sciences Building, Room 408, telephone number (517) 483-1092 or the MSU Department of Veterinary Technology at (517) 353-7267.

REQUIREME	NTS		TOTAL	: 20 CREI	DITS
CODE	TITLE	1977 - A.		CREDIT H	OUAS
BIOL 127	Cell Biology				4
CHEM 151	General Chemistry Lecture I				4
CHEM 161	General Chemistry Lab I				1
SOCL 120	Introduction to Sociology			1	4
SPCH 120	Dynamics of Communication		·**		3
WRIT 121	Composition I		4.7		. 4
1 A A A A A A A A A A A A A A A A A A A					

LIMITED CHOICE REQUIREMENTS TOTAL: 44-45 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

 CHOICE 1:
 General Education Core Areas
 0 Credits

 (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)
 0

 Communication Core Area (See Note 1)
 0

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	Global Perspectives and Diversity Core Area (See N	lote 1)	0
	Mathematics Core Area (See Note 2)		0
	Science Core Area (See Note 1)		0
	Writing Core Area (See Note 1)	-	0
CHOICE 2:	Mathematics	4-5 Cree	dits
MATH 121	College Algebra I		. 4
MATH 126	College Algebra and Trig		5
CHOICE 3:	MSU Veterinary Medicine Courses (See Note 3) Required Veterinary Medicine courses taken at Michigan State University	40 Cree	lits

MINIMUM TOTAL

NOTES:

- Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area.
- Students completing CHOICE 2 have fulfilled the requirements for this core area.
- Specific Veterinary Medicine courses are necessary to fulfill this requirement. These courses must be taken at Michigan State University.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1°	ļ			- 18 - L	
CHEM 151	BIOL 127			The Area	
CHEM 161	SOCL 120	1			
SPCH 120				+	114
WRIT 121			-		
Lim, Ch. 2					

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTURICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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SIGN LANGUAGE INTERPRETER ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0282 (Effective Fall 2003 - Summer 2008)

The Sign Language Interpreter is a person specially trained to facilitate communication between the deaf, hard of hearing, and hearing communities. Employment opportunities may be in educational settings, freelance, or contracted with agencies to provide interpreter services for deaf persons. State certification for interpreters is required by taking the Quality Assurance Examination as issued through the Division on Deafness in the Department of Labor for the State of Michigan. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Communication Department, Arts and Sciences Building, Room 211, telephone number (517) 483-1040.

REQUIREME	INTS	TOTAL: 54 CREDITS
CODE	TITLE .	CREDIT HOURS
SIGN 160	Qrientation to Deafness	- 3
SIGN 161	American Sign Language I	. 3
SIGN 162	American Sign Language II	3
SIGN 163	American Sign Language III	. 3
SIGN 166	Fingerspelling	2
SIGN 167	Beginning Sign to Voice	. 3
SIGN 168	Expressive Manual Commun	2
SIGN 169	Receptive Communication	. 2
SIGN 176	Advanced Fingerspelling	. 2
SIGN 240	Interpreting/Transliterating	. 3
SIGN 250	Deaf Culture and History	3
SIGN 260	Linguistic Principles of ASL	3
SIGN 261	Principles of Interpreting (See Note 1)	3
SIGN 262	Mock Quality Assurance (QA)	3
SIGN 263	Intermediate Sign to Voice	. 3
SIGN 264	Advanced Sign to Voice	· · · 3
SIGN 265	Adv Interpreting/Transliterat	3
SIGN 267	Sign Internship I	. 3
SIGN 268	Sign Internship II	3
SIGN 295	Indep. Study in Sign Language	1

LIMITED CHOICE REQUIREMENTS

TOTAL: 13-17 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 13-17 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area (See A	lote 2)	0
	Global Perspectives and Diversity	Core Area	3-4
· ·	Mathematics Core Area	· .	3-4
	Science Core Area	the second second	4-5
	Writing Core Area		3-4
	MINIMUM TOTAL		67

NOTES:

1.1 An interpreter screening is required after the successful completion of SIGN 163 and SIGN 167 and prior to registering for SIGN 261.

2. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

	1 A.			
1 ¹ .	li	- -RI -	IV	۰.
SIGN 160	SIGN 162	SIGN 163	SIGN 240	
SIGN-161	SIGN 166	SIGN 167	SIGN 261	
Lim.Ch.1	Lim.Ch.1	SIGN 168		
Lim.Ch.1	Lim.Ch.1	SIGN 169		
	1	SIGN 176		
v	VI	VI		
SIGN 250	SIGN 262	SIGN 260		
SIGN 263	SIGN 264	SIGN 265		
SIGN 267	SIGN 268		1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 -	
	SIGN 295	(1)		

SIGN LANGUAGE INTERPRETER CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0187 (Effective Fall 2003 - Summer 2008)

A Sign Language Interpreter is a person specially trained to facilitate communication between the deaf, and hearing communities. State certification for interpreters is required by taking the Quality Assurance Examination as issued through the Division on Deafness for the State of Michigan.

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REQUIREME	ENTS	TOTAL: 35 CREDITS
CODE	TITLE	CREDIT HOURS
SIGN 160	Orientation to Deafness	· 3
SIGN 161	American Sign Language I	-, 3 ⁻¹
SIGN 162	American Sign Language II	. 3
SIGN 163	American Sign Language III	3
SIGN 166	Fingerspelling	2
SIGN 167	Beginning Sign to Voice	· · · 3
SIGN 240	Interpreting/Transliterating	
SIGN 261	Principles of Interpreting (See Note 1)	3
SIGN 262	Mock Quality Assurance (QA)	. 3
SIGN 263	Intermediate Sign to Voice	3
SIGN 267	Sign Internship I	3
SIGN 268	Sign Internship II	3
	OICE REQUIREMENTS	TOTAL: 2-3 CREDITS
Complete the	e indicated number of credits from each CH	OICE listed below.
CHOICE 1:	Related Professional Courses	2-3 Credits
. SIGŃ 164	American Sign Language IV	. 3
SIGN 168	Expressive Manual Commun	2
SIGN 169	Receptive Communication	. 2
SIGN 176	Advanced Fingerspelling	. 2
SIGN 250	Deaf Culture and History	3
SIGN 260	Linguistic Principles of ASL	. 3
SIGN 264	Advanced Sign to Voice	3
SIGN 265	Adv Interpreting/Transliterat	.3
SIGN 294	Sign Lang Interpreting Seminar	2

MINIMUM TOTAL

NOTE:

1. An interpreter screening is required after the successful completion of SIGN 163 and SIGN 167 and prior to registering for SIGN 261.

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SUGGESTED COURSE SEQUENCE

1	8	10	ŧv
SIGN 160	SIGN 162	SIGN 163	SIGN 240
SIGN 161	SIGN 166	SIGN 167	SIGN 261
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v	Vŧ		
SIGN 263	SIGN 262		
SIGN 267	SIGN 268		

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE. PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN

GENERINO OG SOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0853 (Effective Fall 2003 - Summer 2008)

The Stage Technology Program provides training in technical skills associated with the stage technology industry, as well as general education classes that are part of most liberal studies degrees. Students who eventually plan to study scenic design or lighting design; media technology or communication. including television and film studies; electrical or medical engineering; or other related fields may find the unique blend of theory and practice in the Stage Technology Program particularly helpful. Upon completion of this degree, students may choose to enter the stage technology field; or with appropriate course planning, a student may transfer to a four-year institution. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREOUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Humanities and Performing Arts Department, Arts and Sciences Building, Room 255, telephone number (517) 483-1018.

			κ.	
REQUIREMENTS			TOTAL: 46 C	REDITS
CODE	TITLE		CREE	DIT HOURS
MTEC 120	Audio Production		1	4
PHYS 120	The Art of Physics			. 4
SOCL 120	Introduction to Sociology			4
SPCH 110	Oral Communic in the Workplace			. 3
STEC 100	Intro to Stage Tech Industry	•		2
STEC 120	Stage Lighting and Electricity	•		3
STEC 122	Advanced Stagecraft			-3
STEC 130	Audio/Visual Technology			· 3
STEC 140	Theatrical Make-Up/Wardrobe		· .	3
STEC 150	Stage and Arena Rigging			.3.
THEA 110	Introduction to Theatre	-	4	3.
THEA 114	Intro to Technical Theater			·. 3
THEA 210	Theatre History			4
WRIT 121	Composition I		· · ·	4

LIMITED CHOICE REQUIREMENTS (See Note 1) TOTAL: 15-16 CREDITS Complete the indicated number of credits from each CHOICE listed below.

3-4 Credits CHOICE 1: General Education Core Areas (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

	Communication Core Area (See Note 2)	0
	Global Perspectives and Diversity Core Area (See Noi	te 3) 0
	Mathematics Core Area	3-4
	Science Core Area (See Note 2)	.0
	Writing Core Area (See Note 2)	. 0
CHOICE 2:	Global Perspectives and Diversity	4 Credits
HUMS 211	History of Art I	4
HUMS 212	History of Art II	4
HUMS 213	World Civilizations I	4
HUMS 214	World Civilizations II	4
CHOICE 3:	Stage Technology (See Note 4)	8 Credits
· ·	MINIMUM TOTAL	61

MINIMUM TOTAL

NOTES:

- t. It is strongly recommended that students intending to transfer to four-year institutions meet additional course requirements as outlined in the MACRAO Transfer Agreement (see "Transfer Information"). Students should also consult
- appropriate Transfer Guides for specific four-year programs (available from Counseling and Advising). 2 Students completing REQUIREMENTS have fulfilled the requirements for this
- Core area.
- Students completing CHOICE 3 have fulfilled the requirements for this Core 3. area
- Students must take a minimum of eight credits from one of the following areas: stage technology, electrical, media technology, welding or theatre. Students must consult with the Stage Technology Program Advisor regarding course selection.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1		. 10	IV	
PHYS 120	MTEC 120	STEC 130	SOCL 120	
STEC 100	STEC 120 "	THEA 210	SPCH 110	
THEA 110	STEC 122	Lim. Ch.	STEC 140	
THEA 114	Lim, Ch.	Lim. Ch.	STEC 150	
WRIT 121		•	Lim. Ch.	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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STAGE TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0849 (Effective Fall 2003 - Summer 2008)

This program consists of practical, hands on courses that provide students with the necessary technical knowledge and skills needed for an entry-level position in the stage technology industry. Upon completion of this program, students may opt to enter the workforce, apply for the Michigan Stage Technician Apprenticeship Program, continue course work toward the Associate in Applied Arts Degree in Stage Technology, or use their skills in community service at schools, theatres, and churches.

PREREOUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Humanities and Performing Arts Department, Arts and Sciences Building, Room 255, telephone number (517) 483-1018.

REQUIREMENTS			TOTAL:	29 CREDITS
CODE	TITLE			CREDIT HOURS
ELTE 100	Electrical Safety Practices	ŷ	. '	1
ELTE 110	Practical Electricity			3
MTEC 120	Audio Production I			. 4
STEC 100	Intro to Stage Tech Industry			2
STEC 120	Stage Lighting and Electricity			3
STEC 130	Audio/Visual Technology.			3
STEC 140	Theatrical Make-up/Wardrobe			3
STEC-150	Stage and Arena Rigging		2	3
THEA 114	Intro to Technical Theater			. 3
WELD 100	Combination Welding			4

LIMITED CHOICE REQUIREMENTS TOTAL: 10 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	Stage Technology (See Note 1)	2		10 Credits
	MINIMUM TOTAL			- 39

NOTE:

 Students must take a minimum of ten credits from one of the following areas: stage technology, electrical, media technology, welding or theatre. Students must consult with the Stage Technology Program advisor regarding course selection.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

ł	И .	ÛL Â		-
ELTE 100	MTEC 120	STEC 140		
ELTE 110	STEC 130	STEC 150		
STEC 100	THEA 114	WELD 100		
STEC 120	Lim, Ch,	Lim. Ch.		
		Lim. Chi		
Y	Vł		·	
SIGN 263	SIGN 262			
SIGN 267	SIGN 268			

STUDENTS ARE RESPONSIBLEFOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INFRATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO OFFICIAL DOCUMENT.

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STAGE TECHNOLOGY APPRENTICE ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0971 (Effective Fall 2003 - Summer 2008)

The Stage Technology Program provides training in technical skills associated with the stage technology industry. The Associate Degree In Applied Science is particularly useful for those individuals wishing to pursue advanced careers in this industry, such as management positions or permanent jobs at entertainment facilities. In order to begin this curriculum, students MUST first be accepted as a registered apprentice in the Michigan Stage Technician Apprenticeship Program (MSTAP). MSATP/JATC, IATSE Local 274, State AFL-CIO Building, 419 S. Washington Avenue, Lansing, MI, 48933. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Humanities and Performing Arts Department, Arts and Science Building, Room 255, telephone number (517) 483-1018.

REQUIREMENTS FOR ADMISSION TO THE STAGE TECHNOLOGY PROGRAM FOR MSTAP APPRENTICES

For current information about admission requirements, contact the Humanities and Performing Arts Department, Arts and Science Building, Room 255H, telephone number (517) 483-1487.

REQUIREMEN	ITS	TOTAL:	56 CREI	DITS
CODE	TITLE		CREDIT H	OURS
ELTE 100	Electrical Safety Practices			1.
ELTE 110	Practical Electricity			з
ELTE 150	Electric Motor Maintenance			2
MTEC 120	Audio Production I			4
MTEC 122	Sound Reinforcement			4
MTEC 223	Sound Reinforcement Practicum			2
MTEC 252	Lighting for Television/Video			3
STEC 100	Intro to Stage Tech Industry			2
STEC 110	Stage Tech Field Experience (See Note 1)			1
STEC 120	Stage Lighting and Electricity			З
STEC 122	Advanced Stagecraft	1 - F		· 3
STEC 130	Audio/Visual Technology			Э
STEC 140	Theatrical Make-Up/Wardrobe			З
STEC 150	Stage and Arena Rigging			з
STEC 296	STEC Internship			2
THEA 110	Introduction to Theatre			3
THEA 114	Intro to Technical Theatre			З
WELD 100	Combination Welding			4
WELD 111	Gas Tungsten ARC Welding			4

LIMITED CHOICE REQUIREMENTS TOTAL: 16-20 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 16-20 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area	1	3
Global Perspectives and Diversity Core Area		3-4
Mathematics Core Area		3-4
Science Core Area		4-5
Writing Core Area		3-4
		72

MINIMUM TOTAL

NOTES:

1. STEC 110 must be taken four times for a total of 4 credits toward this degree. Stage Technology Field Experience involves variable hours that are determined by work calls from full and associate members of the MSTAP Joint Apprentice Training Committee (JATC). Most work calls will come through IATSE Local #274.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

I	H :	· 40	tV ·
ELTE 100 MTEC 120 STEC 100 STEC 110 THEA 110 THEA 114	ELTE 110 MTEC 122 STEC 110 STEC 120 STEC 120 STEC 130 Lim. Ch.	ELTE 150 STEC 110 STEC 122 STEC 140 WELD 100 Lim. Ch.	MTEC 223 MTEC 252 STEC 110 STEC 150 WELD 111

STEC 296

Lim, Ch.

Lim. Ch.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL RECORREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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GENERAL TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0213 (Effective Fall 2003 - Summer 2008)

This curriculum is designed to provide an individual with a multi-discipline technical background. The technical courses and supporting courses that comprise this degree provide the flexibility to match the student's interest with the skills necessary for job entry. For example, this curriculum is often pursued by apprentices who complete most of the requirements for this degree through their related training requirements and who also wish to earn an associate degree. Students interested in pursuing careers in a specific technical area should see a faculty advisor in their career choice.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Manufacturing and Land Technologies Department, Gannon Vocational-Technical Center, Room 1360, telephone number (517) 483-1336.

REQUIREME	INTS	TOTAL: 38 CREDITS
CODE	TITLE	CREDIT HOURS
CADD 110	Industrial Blueprint Reading	
EMSA 100	First Aid and CPR	2
MACH 100	Manufacturing Processes	4.
MACH 135	Metallurgy and Heat Treat	4
MATH 114	Technical Math I	4
MATH 115	Technical Math II	• 4
MGMT 234	Diversity in the Workplace	3
QUAL 100	Intro Quality Assurance	. 4
PHYS 120	The Art of Physics	. 4
SPCH 110	Oral Communication in the Workplace	3
WRIT 124	Technical Writing	
	and the second second second second second second second second second second second second second second second	1

LIMITED CHOICE REQUIREMENTS TOTAL: 22 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 0 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

CHOICE 2:	Applied Technology Related (See Note 2)	22 Credits
	Writing Core Area (See Note 1)	0
	Science Core Area (See Note 1)	0
	Mathematics Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area (See Not	e1) 0
	Communication Core Area (See Note 1)	O.

MINIMUM TOTAL

NOTES:

 Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area.

2. Contact an advisor in GVT 1380 or call (517) 483-1336 for a listing of addi-

tional courses that may be applied toward this degree.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	8	n. Ni	IA.
EMSA 100	MACH 135	CADD 110	PHYS 120
MACH 100	MATH 1'15	WRIT 124	SPCH 110
MATH 114	MGMT 234	Lim.Ch.	Lim.Ch.
QUAL 100 .	Lim.Ch.	Lim.Ch.	Lim.Ch.
		Lim:Ch.	Lim.Ch.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE RESISTERT'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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TOUR CRUISE OPERATIONS CERTIFICATE OF COMPLETION

Curriculum Code: 0920 (Effective Fall 2003 - Summer 2008)

This curriculum is designed for individuals with travel experience who are interested in careers with cruiselines or tour operators. It gives students the basic skills and knowledge for entry level positions in businesses that offer group tours, tour packages, or cruises.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREMENTS		TOTAL: 16 C	REDITS
CODE	TITLE	CRED	IT HOURS
MGMT 150	Managing Customer Relations		· 3
MGMT 239	Time and Stress Management		Э
SPCH 130	Fundamental of Public Speaking (See Not	'e 1)	З
TRVL 145	Intro Cruise Sales/Ground Tran		- 3
TRVL 210	Group Travel/Escorting Ops		4
	MINIMUM TOTAL		16

NOTE:

This course does not fulfill the Speech Communication Core requirement for 1. those students planning to pursue an associate degree.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

1				 	
MGMT 1	50				
MGMT 2	39		ę.		
SPCH 13	30	1 .			
TRVL 14	5				
TRVL 21	0				

TRAVEL AGENCY OPERATIONS CERTIFICATE OF COMPLETION

Curriculum Code: 0919 (Effective Fall 2003 - Summer 2008)

This curriculum is designed to give individuals with travel experience the basic skills and knowledge necessary for an entry level position in a travel agency.

PREREQUISITES

Students should see Course Descriptions or Course Offerings for course prerequisite information. See the Assessment and Placement Testing section for skills assessment and advising information-

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREMENTS		TOTAL: 18 CREDITS		
CODE TITLE .			CREDIT	HOURS
CISB 102	Internet Literacy			З
MGMT-150	Managing Customer Relations		. '	З
OADM 203	Professional Office Procedures			3
TRVL 100	Travel Agency Operations		- 1 I	3
TRVL 135	Airline/Airport Operations	:	1	3
TRVL 140	Airline Computer Reservation I			ġ.
	MINIMUM TOTAL		•	18

MINIMUM TOTAL

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

CISB 102	
MGMT 150	
OADM 203	
TRVL 100	
TRVL 135	
TRVL 140	

TRAVEL AND TOURISM ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0229 (Effective Fall 2003 - Summer 2008)

Travel agents, tour escorts, cruise line and airline personnel plan trips and arrange lodging, modes of travel, and travel services for customers. They may specialize in foreign or domestic service, individual or group travel, or a specific geographical area. Travel customer service representatives are employed by airlines, cruise lines, tour companies, rai/cads, and tourism bureaus to provide travel information and arrange accommodations for tourists. They answer questions, offer suggestions, verify arrival/departure times, and provide literature on trips, excursions, sports events, concerts, and plays. Travel, tour, cruise and airline personnel may confer with customers by phone or in person, or plan trips for them in response to mail requests. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Business Department, Old Central Building, Room 210, telephone number (517) 483-1522.

REQUIREMENTS		TOTAL: 47 CREDITS
0006	THT4.5	ORELST (HOURS
CABS 110	Intro to Microsoft Office	3
HMES 101	Intro Hospitality/Tourism	' 3
MGMT 150	Managing Custômer Relations	· 3
SPCH 110	Oral Communic in the Workplace	3
TRVL: 125	Destinations I	3
TRVL 130	Destinations II	3.
TRVL 131	Destinations III	3
TRVL 140	Airline Computer Reservation I	3
TRVL 145	Intro Cruise Sales/Ground Tran	3
TRVL 190	Internship	2
TRVL 200	Sales/Mktg for Travei/Tourism	· 3
TRVL 230	Travel/Tourism Law	3
TRVL 250	Airline Comptr Reservation II	Э
TRVL 265	Fund of Business Travel	3
TRVL 275	Travel Industry Practicum	
WRIT 127	Business Writing	3

LIMITED CHOICE REQUIREMENTS TOTAL: 23-26 CREDITS

Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 10-13 Credits (See General Education Core Requirements for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area (See Note 1)		0
Global Perspectives and Diversity Core Area	,	3-4
Mathematics Core Area		3-4
Science Core Area		4-5
Writing Core Area (See Note 1)		0

CHOICE 2:	Specific Travel Occupations	
	(Choose one subchoice)	13 Credits
Subchoice 2	A: Tour/Cruise Operations	
HMFS 229	Convention/Meeting Management	3
MKTG 119	Mktg/Manage Your Profess Image	3
SPCH 130	Fundamental of Public Speaking	3
TRVL 210	Group Travel/Escorting Ops	4
Subchoice 2	B: Travel Agencies	
ACCG 101	Accounting for Non-Majors	3
TRVL 100	Travel Agency Operations	3
TRVL 135	Airline: Airport Operations	3
TRVL 210	Group Travel/Escorting Ops	4
	MINIMUM TOTAL	70

NOTE:

 Students completing REQUIREMENTS have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transterred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselot for help with adjustments.

1	Ħ	<u> </u>	IV
CABS 110	SPCH 110	TRVL 130	TRVL 131
HMFS 101	TRVL 125	TRVL 190	TRVL 230
MGMT 150	TRVL 140	- TRVL 250	TRVL 265
WHIT 127	TRVL 145	Lim.Ch.	TRVL1275
Lim.Ch.	TRVL 200	Lim.Ch.	Lim.Ch.
Lim.Ch.	Lim.Ch.		`Lim.Ch.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTERERS OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DESREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO CONDUCTED BY THE REGISTER AS OFFICE THAT IS INITIATED WHEN

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TRUCK DRIVER TRAINING CERTIFICATE OF COMPLETION

Curriculum Code: 0262 (Effective Fall 2003 - Summer 2004)

A truck driver operates a commercial vehicle that weighs over 10,000 pounds and is used in either intrastate or interstate travel. A person must be able to safely operate a large displacement vehicle in all traffic conditions. Truck drivers also need to maintain records that are required by state and federal regulations and employers. Before beginning the program, students must pass a physical and eye exam as well as have a good driving record. Students are subject to drug and alcohol testing as required by the Department of Transportation. There is limited enrollment, so there may be a short waiting period before starting the program. Upon successfully completing the program, a student will receive a certificate of completion from the college and be qualified for a class "A" Commercial Drivers License (CDL).

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. The courses for this program are open only to students officially admitted to the Truck Driver Training Program.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2003/2004 academic year. For the most recent and complete information, interested students should contact Lansing Community College, Truck Driver Training Program, 2417 25th Street, Augusta, MI 49012, telephone number (616) 731-4125.

REQUIREMENTS FOR ADMISSION TO THE TRUCK DRIVER TRAINING PROGRAM Curriculum Code: 0718

In order to be considered as a candidate for this program, an applicant must meet the following admission requirements.

- a. Submit to the Truck Driver Training Program a completed Selective Admis-
- sions Application, a completed Truck Driver Training Application, and a. \$100 deposit or letter from a sponsoring agency or approved company indicating financial responsibility for applicable tuition and fees. (This deposit is refunded upon cancellation if the College is notified at least 18 days prior to the class starting date.)
- b. Have a valid driver's license. A Commercial License is not necessary while attending school, but will be required prior to being hired for work. Have an acceptable driving record. All driving records are checked through the Secretary of State and reviewed individually. The school will apply for each applicant's Motor Vehicle Record which takes 10-14 days to receive.
 - c. Must be eligible for a "Temporary Instruction Permit" (T.I.P.). The State of Michigan requires all truck drivers to have a Commercial Driver's License. Any person learning to drive a tractor-trailer unit (such as those operated by Lansing Community College) must be in possession of a T.I.P. or "Temporary Instruction Permit". WE WILL PREPARE STUDENTS TO OBTAIN THEIR "T.I.P." DURING THE FIRST WEEK OF CLASS. Written tests will be administered by Secretary of State personnel in the L.C.C. classroom.
 - Persons shall be considered ineligible for a T.I.P. if they:
 - Fail to pass the written examination.
 - Have been charged in the 24 months immediately preceding application with a total of 12 or more points.
 - Have had their license suspended or revoked in the 36 months immediately preceding application unless that suspension or revocation was due to a revocation by temporary medical condition, failure to appear for re-exam or failure to appear in court for a traffic violation, an unsatisfied judgement or a no-fault insurance violation.
 - Have been convicted of a 6 point violation or an impaired driving charge (4 points) in the 24 months immediately preceding application.
 Applicants residing outside the State of Michigan must supply a copy of their own driving record from the State in which they are licensed and must possess a T.I.P. from their licensing State.

- d. Be able to read, write and speak the English language. A high school diploma is not required, but students must be able to compute simple fractions and know general math for correct log book tabulation.
- e. Be able to pass the Department of Transportation (D.O.T.) physical examination. The physical form and card can be obtained from the LGC Truck
- Driver Training Program. PLEASE NOTE: THE TDT PROGRAM MUST RECEIVE THE APPLICANT'S COMPLETED D.O.T. PHYSICAL FORM SIGNED BY A PHYSICIAN BEFORE ACCEPTANCE INTO THE PRO-GRAM. The fee for the physical exam is the applicant's responsibility.
- f. Be at least 18 years old. Those persons between the ages of 18 & 21 should realize job opportunities are limited for persons in this age bracket, and they will more than likely experience difficulty in obtaining employment. Graduates must be 21 years of age to drive outside the State of Michigan.
- g. Be able to appear for 200 hours of instruction during the five weeks of training. Classes begin at 8:00 a.m. (Monday through Friday) and students are expected to be on time. Any student missing more than two days of class will be dismissed.
- Students are subject to drug and alcohol testing as required by D.O.T. regulations.
- The Truck Driver Training Program is a short streamlined program. Any previous driving experience along with some mechanical aptitude is beneficial to a student. APPLICANTS SHOULD KNOW HOW TO SHIFT A STRAIGHT STICK TRANSMISSION AND USE A CLUTCH PRIOR TO ATTENDING.

TRUCK DRIVER TRAINING PROGRAM REQUIREMENTS Curriculum Code: 0262

REQUIREMENTS		TOTAL	9 CREDITS
CODE	TITLE	 	CREDIT HOURS
TDTP 110	Truck Driver Training I	 1.11	3
TDTP 111	Truck Driver Training II		. 3
TDTP 112	Truck Driver Training III		. 3

MINIMUM TOTAL

NOTE:

 The Program provides 140 hours in range and highway driving and 60 hours in classroom instruction situations. Range training includes an over-the-road trip of over 1,000 miles, permitting the students to gain over-the-road experience.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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HOW TO READ COURSE DESCRIPTIONS

Each course description has seven (7) categories of information as follows: For example 1. Course code 2. Course title З. Number of semester credit hours SEMESTER CREDITS COURSE TITLE COURSE CODE 4. Prerequisite Course description 5. 6. Semester planned AVEL 220 Avionics Systems I Prerequisite: AVEL 190 2.0 minimum and AVEL 200 2.0 minimum Previous courses, skill levels, training and/or experience required for enroll-ment. Other prerequisites may be added. See *Course Schedule* or depar-ment each semester for current information. Restriction: Avionics Majors Co-requisite course: AVEL 221 Recommended: AVEL 191 A study of the communications, navigation, and other systems found in modern aircraft, focusing on component level repair and testing to manufacturer's specifications. Students will have the opportunity to obtain factory certification for the repair of various systems (F)* Indicates when department plans to offer course, but **does not guarantee** that the course will be offered. See *Course Schedule* or department each semester for current information. COURSE DESCRIPTION *F = Fafl: Sp = Spring: Su = Summer

COURSE CODES USED IN DESCRIPTIONS

Courses are listed in course code order. The sequence is as follows:

ACCG	Accounting
AERO	Aerospace Studies
AGRI	Agriculture
ANTH	Anthropology
ARCH	Architecture
ARTS	Art. Design and Multimedia
ARWS	Art Seminars and Workshops
ASTR	Astronomy
AUT8	Auto Body Collision Repair
AUTO	Automotive
AVAF	Aviation Airframe Maintenance
AVEL.	Aviation Electronics
AVET	Avlation Flight Training
AVGM	Aviation General Maintenance
AVGS	Aviation Ground School
AVIR	Aviation Instrument Repair
AVPP	Aviation Powerplant Maintenance
AVST	Aviation Simulator Training
BDCS	Business Development Seminers
BIOL	Biology
BLDR ,	Building Related
BLDT.	Building Trades
BUSN	Business
CABS	Computer Applications Using Business Software
CADD	Computer-Aided Drafting and Design
CHCE	Continuing Health Careers
CHDV	Child Development
CHEM	Chemistry
CHSE	Community Health Services
CISB	Computer Information Systems for Business
CIVL	Civil Technology
CJUS	Criminal Justice
CNCP	Computerized Numerical Control Program
CPSC	Computer Science
CUAI	Credit Union Accounting and Insurance
CUMA	Credit Union Management
DANC	Dance
DENT	Dental Hygiene
ECON	Economics
EDUC	Education

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ELCT	Electronics Technology
ELTE	Electrical Technology
EMSA	Emergency Medical Services
EMSB	Emergency Medical Services Seminars
EMTA	Emergency Medical Technology
ENGL	English
ENRI .	Enrichment
ENVR	Environmental Science
ESLP	English as a Second Language
FASH	Fashion
FILM .	Film Production and Direction
FIRE	Fire Science
FLNG	Foreign Language
FREN	French
GEOG	Geography
GEOL	Geology
GERO	Gerontology
GRET	Geographic Information Systems
GRMN	German
HEOT	Heavy Equipment Operator Training
HERT	Heavy Equipment Repair Technician
HIST	History
HMFS	Hotel/Motel and Food Service Operations
HONR	Honors
HORT	Horticulture
HUMS	Humanities
HUSE	Human Services
HVAC	Heating, Ventilating, and Air Conditioning
IDMS	Diagnostic Medical Sonography
IMAG	Photography Technology
INSU	Insurance
INTR	Interior Design
IRXT	Radiologic Technology
ISCI	Integrated Science
JAPN .	Japanese
JRNL	Journalism
LABR	Labor Relations
	Landscape
LEGL	Legal Assistant/Law
LING	Linguistics

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MACH	Machine Tool Technology
MASG	Massage Therapy
MATH	Mathematics
METR	Meteorology
MFGM	Manufacturing Maintenance
MGMT	Management
MILS	Military Science
MKTG	Marketing
MTEC	Media Technology
MUSC	Music
NURS	Nursing
OADM	Office Administration
PARA	Paramedic
PFAQ	Physical Fitness: Aquatics
PFDA	Physical Fitness: Dance
PFFT	Physical Fitness: Fitness
PFHW	Physical Fitness: Health/Fitness Wellness
PFKN	Physical Fitness: Kinesiology
PFSP	Physical Fitness: Team and Individual Sports
PFWT	Physical Fitness: Weight Training
PHIL	Philosophy
PHON	Phonics
PHYS	Physics
POLS	Political Science
PSYC	Psychology

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QUAL	Quality Assurance
RDGR	Reading: Restricted
READ	Reading
REAL	Real Estate
RELG	Religion
SCIN	Science Technology Internship
SCIS	Science Seminars
SDEV	Student Development
SIGN	Sign Language
SOCL	Sociology
SOWK	Social Work
SPAN	Spanish
SPCH	Speech Communication
SPEL	Spelling Development
STAT	Statistics
STEC	Stage Technology
SURG	Surgical Technology
TDTP	Truck Driver Training Program
THEA	Theater
TRVL	Travel and Tourism
VCBL	Vocabulary Improvement
VIET	Vietnamese
WELD	Welding Technology
WRIT	Writing
WRTR	Writing: Restricted

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DESCRIPTIONS

ACCG - Accounting ACCG 100 Practical Accounting Non-Major З Prerequisite: None Students will learn the bookkeeping procedures necessary for preparation of financial statements and payroll. Manual and computer systems will be covered. (F, Sp, Su) ACCG 101 Accounting Info for Management 3 Prerequisite: None Students will learn to interpret financial statements and use this information for analysis, budgeting, and decision-making. (F, Sp) ACCG 140 Income Tax Preparation з Prerequisite: None Students will complete individual income tax returns and supporting schedules according to the Internal Revenue Code. The focus is on the completion of forms rather than the theoretical aspects of the tax law. (F), (F, Sp) ACCG 160 Payroll Systems and Taxes 2 Prereguisite: None Recommended: ACCG 100 or Equivalent Work Experience This course covers laws affecting payroll, calculation of payroll and payroll taxes using both manual and computer payroll systems, preparation of tax forms for payroll taxes, sales and use taxes, and personal property taxes. (Su) ACCG 210 Principles of Accounting I Δ Prerequisite: None Recommended: Algebra Knowledge Principles of Accounting I is the first class of a two-semester sequence focusing on financial accounting, including accounting for service organizations and merchandisers. Topics covered include the basic accounting cycle, financial reporting, accounting theory, and accounting for inventories, cash, receivables and payables, plant assets, and stockholders equity (F, Sp, Su) ACCG 211 Principles of Accounting II Prerequisite: ACCG 210 2.0 minimum Recommended: Intermediate Algebra or Higher Principles of Accounting II is the second course in the two-semester accounting sequence. Topics include statement of cash flows, budgets and other managerial reports, capital budgeting, short-term decision-making, equity investments, time value of money, bonds, manufacturing accounting, job and process costing systems, and accounting for quality and cost management. (F, Sp, Su) ACCG 220 Intermediate Accounting I Prerequisite: ACCG 211 2.0 minimum Sp) Recommended: Electronic Spreadsheet Experience Financial Accounting and Reporting in accordance with Generally Accepted Accounting Principles including a review of financial accounting covered in the Principles course, Topics include the conceptual framework and environment of accounting, time-value-of-money, current assets and liabilities, plant assets, intangible assets, and note disclosures involved in presenting financial statements. (F, Sp) ACCG 221 Intermediate Accounting II Prerequisite: ACCG 220 2.0 minimum Continuation of ACCG 220 covering financial accounting and reporting in accordance with GAAP. Topics include stockholders' equity, earnings per share, investments, revenue recognition, accounting for income taxes, and long-term liabilities including pensions and capital leases, statement of cash flows, changes and error corrections, and full disclosure in financial reporting. (F, Sp) ACCG 230 Cost Accounting Prerequisite: ACCG 211 2.0 minimum Recommended: Electronic Spreadsheet Experience

This course focuses on cost-volume-profit analysis costing methods for service and merchandising businesses. Other topics include activity based costing, job order costing, responsibility accounting, budgeting, standards, variable vs. full costing, joint and by-products, process costing, spoilage, project control, and capital budgets. Computer applications are emphasized. (F)

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ACCG 231 Managerial Accounting

Prerequisite: ACCG 230 2.0 minimum This course focuses on the accountant's role in the organization; cost information gathering, processing and reporting for various decision and control purposes; pricing; cost allocation; project control; mix and yield variances; uncertainty; variance investigation, inventory management, cost mangement; strategic planning; and management control. (Sp)

ACCG 235 Budgeting

Prerequisite: ACCG 211.2.0 minimum

This course covers the budget cycle of an organization, both public and private. from a managerial perspective. Topics covered include budgetary terms, concepts and general format, performance budgeting, program budgeting, zero base budgeting, budgeting approval process, budgetary control, and the auditing phase of a budget. (F)

ACCG 240 Federal Income Tax I

Prerequisite: ACCG 211 2.0 minimum

This class is the first in a two-semester sequence in federal income tax. This course deals with taxation of individuals from a historical and theoretical perspective, as well as preparation of individual income tax returns under current tax law. (F, Sp)

ACCG 241 Federal Income Tax II

Prerequisite: ACCG 240 2.0 minimum

This class is the second in a two-semester sequence in federal income tax. This course deals with the taxation of corporations, partnerships, estates, trusts, and tax exempt entities from a historical and theoretical perspective, as well as preparation of tax and information returns undercurrent tax law. (Sp)

ACCG 245 Accounting Internship

Prerequisite: ACCG 210 2.0 minimum and Department Approval This course provides an opportunity to apply classroom learning to a careerrelated position by working a minimum of 128 hours at an approved work site. A student may do an internship at his/her own job only if the duties are new, accounting related, and provide an appropriate learning situation. (F, Sp, Su)

ACCG 250 Advanced Accounting

Prerequisite: ACCG 221 2.0 minimum

 This course covers business consolidations, foreign currency accounting, and partnerships in depth. In addition, the course provides an overview of governmental and nonprofit accounting. (Su)

ACCG 260 Accounting Systems

Prerequisite: ACCG 210 2.0 minimum

Recommended: Keyboarding Experience

Accounting Systems prepares students to work with and design information systems and to use the scientific methods in problem solving. Issues and problems related to microcomputers and other technology on accounting systems are emphasized. Students analyze systems, work with manual and computerized accounting systems, database design, and problem solving with spreadsheets. (F, Sp)

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ACCG 266 Independent Study Accounting

Prerequisite: Department Approval

With this course, students will learn advanced accounting topics as an independent study, or a project. Grading criteria and course objectives are determined at a meeting between the student and program advisor. It is expected that the student will spend approximately 48 independent study hours per credit. (F, Sp, Su)

ACCG 271 Principles of Finance

Prerequisite: ACCG 211 2.0 minimum

This course emphasizes the short- and long-term decisions a financial manager may face. Topics include working capital management, risk, cost of capital, capital markets, long-term debt, stocks and dividend policy, mergers and acquisitions, and international financial markets as these topics relate to obtaining financing for a business, (Su)

ACCG 280 Governmental Accounting

Prerequisite: ACCG 211 2.0 minimum

Applications of fund accounting principles are applied to governmental (local and state) and not-for-profit entities. Students learn skills necessary to understand the organization, accounting functions, auditing, and financial reporting practices of governmental and non profit organizations. Governmental Accounting Standards Board (GASB) and Financial Accounting Standards Board (FASB) requirements are taught. (Sp)

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ACCG 290 Auditing Prerequisite: ACCG 220 2.0 minimum

Students will primarily learn about the audit of historical financial statements as performed by certified public accounting firms. Material covered on the CPA exam will be emphasized. An extensive practice case that provides simulated hands-on experience will be included. (F)

ACCG 295 CPA Review - Tax, Mgr, Cost, Gov

Prerequisite: None

Recommended: Meet Requirements for CPA Examination

The course is designed to provide CPA exam candidates with a review of federal taxation, cost, managerial, governmental and nonprofit accounting. Emphasis is given to typical exam questions and strategies to answer them correctly. (F, Sp)

ACCG 296 CPA Review - Business Law

Prerequisite: None

Recommended: Meet Requirements for CPA Examination

This course is designed to provide CPA exam candidates with a review of business law, especially the provisions of the Uniform Commercial Code. Emphasis is given . to typical exam questions and strategies to answer them correctly. (F, Sp)

ACCG 297 CPA Review - Auditing

Prerequisite: None

Recommended: Meet Requirements for CPA Examination This course is designed to provide CPA exam candidates with a review of audit

concepts, assumptions, and procedures. Emphasis is given to typical exam guestions and strategies to answer them correctly. (F, Sp)

ACCG 298 CPA Review - Fin Acct/Report Prerequisite: None

Recommended: Meet Requirements for CPA Examination

This course is designed to provide CPA exam candidates with a review of the the ory and practice of financial accounting and reporting for business enterprises. Emphasis is given to typical exam questions and strategies to answer them correctly. (F, Sp)

AERO - Aerospace Studies

AERO 111 USAF Foundation I

Prerequisite: None

This course provides an introduction to the U.S. Air Force today. Course topics include mission and organization, group leadership problems, and introduction to communication skills. Includes a leadership laboratory, (F).

AERO 112 USAF Foundation II

Prerequisite: None

This course provides an introduction to the U.S. Air Force today. Course topics include officership and professionalism, group leadership problems, and introduction to communication skills, includes a leadership laboratory. (Sp)

AERO 211 Evolution of USAF I

Prerequisite: None

This course focuses on Air Force heritage. Course topics include evaluation of air power concepts and doctrine, introduction to ethics and values, introduction to leadership, and the continuing application of communication skills. Includes a leadership laboratory. (F)

AERO 212 Evolution of USAF II

Prerequisite: None

This course continues the historical perspective of AERO 211 beginning with Vietnam. Course topics include the role of technology in the growth of air power, introduction to Quality Air Force, group leadership problems; and the continuing application of communication skills. Includes a leadership laboratory. (Sp)

AGRI - Agriculture

AGRI 101 Principles/Precision Agritech

Prereguisite: None

This course introduces the field of precision agricultural technology. The combining of the latest technologies, i.e., Global Positioning Systems and Integrated Pest Management, make traditional agricultural practices as accurate and customized as possible for each specialized crop. (F, Sp)

AGRI 106 Disease/Insect Agrinomic Crops

Prerequisite: None

This course is for the professional applicator or farm operator interested in a basic knowledge of insects, diseases, vertebrates, and microorganisms that affect agrieconomic crops. Environmental problems, soil, fertilizers, planting, integrated pest management, and problem solving techniques will be stressed. Can be used toward pesticide certification by the Michigan Department of Agriculture. (Sp)

AGRI 200 Vegetation and Weed Management

Prerequisite: None

Students will develop skills necessary to monitor, control, and identify by species both vegetation and weed plants. Vegetation will be evaluated from seedling to mature stage for proper control measures by both natural and chemical controls. Various chemicals will be judged for environmental impact and effective control. (F, Sp)

AGRI 201 Prin/Sustainable Agriculture

Prerequisite: None

The modern era principles of sustainable agriculture will be covered by way of lecture and demonstration. The practice of proper plant selection, species requirements, land use, fertilization needs, and pesticide practices will be highlighted. Scientific practices utilized in plant genetics and technology applications will also be discussed. (Sp)

AGRI 202 Agri Soils and Crop Management

Prerequisite: None

This course covers all aspects of soils related to agricultural production of food and fiber crops. Soil classification, texture, composition and conditions will be anatyzed, evaluated and managed. Soil conditions relating to environmental fertilization and composition problems will be evaluated. Soil erosion and conservation management practices will also be highlighted. (F, Sp)

AGRI 211 Agricultural Crop Production

Prerequisite: None

This course will focus on the basic components of cash crop production in the modern agricultural environment. Crop identification management and harvesting techniques will be highlighted for the major crops utilized in today's marketplace. Crop production techniques will be emphasized with a thorough evaluation of modern technology practices. (Sp)

AGRI 212 Vegetable Crop Production

Prereguisite: None

This agricultural production course will cover the seed production, planting, management, IPM and harvesting of vegetable crop plants. Vegetable crops such as sweet corn, tomatoes, peppers, beans, spinach, melons, peas and cold weather crops will be discussed. Vegetable crop marketing in the Great Lakes region will also be discussed. (F, Sp)

AGRI 213 Ag Site Specific Research Tech

Prerequisite: None

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This course will evaluate the various new technologies available to farmers and agriculturists. Technologies such as computers, GIS systems, GPS receivers, field monitors, sensors, pad computers, etc. will be evaluated as to their function and incorporation into specific farming production practices. IPM and crop genetic technologies will also be discussed. (Sp)

ANTH - Anthropology

ANTH 270 Cultural Anthropology

Prerequisite: Reading Level 5 and Writing Level 6

This course compares ways of life for societies worldwide using anthropological theory and methodology. Basic institutions of pre-industrial society, such as kinship, religion, law, politics, and economics are examined to provide a better understanding of the diversity of contemporary societies. Cultural variations and the role culture plays in adapting to the environment is emphasized. (Sp)

ANTH 271 Medical Anthropology

Prerequisite: Reading Level 5 and Writing Level 6

An overview of concepts used in anthropology of health and illness, and delivery of health care in diverse settings. Biocultural and cultural approaches to illness are examined from a comparative cross-cultural perspective against a background of evolutionary ecology, illustrating how therapeutic systems form an integrated aspect of society and culture. (F)

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ANTH 275 – ARCH 222

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ANTH 275 Physical Anthr and Archaeology

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: SOCL 120

An overview of human biological and cultural evolution as evidenced in fossil records. Mechanisms of evolution and cultural adaptation will be traced from prehistoric origins through the development of modern homosapians. Major theoretical approaches and methodologies within the subdiciplines of anthropology will be incorporated. (F)

ANTH 276 World Archaeology

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: ANTH 270 and/or SOCL 120 A general survey of archaeology includes an overview of the history of the field and the basic theories and methods employed in the study of prehistoric and historic cultures. Archaeological data and sites are used to explain the extinction and continuation of human societies. (Sp)

ARCH - Architecture

ARCH 100 Intro to Architecture Drawing

Prerequisite: Math Level 3

Students will be introduced to the proper techniques of architectural line work, lettering, orthographic projection, and axonometric drawings. Techniques of architectural dimensioning, the use of symbols, and the production of a basic floor plan and elevations will be accomplished. (F, Sp, Su)

ARCH 101 Residential Detailing

Prerequisite: Math Level 3 and ARCH 100 2.0 minimum Students will use basic drafting techniques to draw a series of residential details. The development of professional quality drawing, lettering, research, and communication techniques will be emphasized. (F, Sp, Su)

ARCH 102 Residential Drawing

Prerequisite: ARCH 101 2.0 minimum

Recommended: ARCH 121 and ARCH 128 Students will use previously obtained basic drafting techniques and knowledge of residential detailing to design residential projects, residential floor plans, elevations, and building sections. (F, Sp, Su)

ARCH 121 Visual Communication I

Prerequisite: ARCH 100.2.0 minimum or Concurrently This course concentrates on architectural graphics and will introduce students to basic techniques of freehand sketching, drafting, orthographic, axonometric, and perspective drawings. Entourage and delineation skills will also be addressed. The production of the most commonly used techniques of black and white architectural rendering and presentation drawing will be studied. (F, Sp, Su)

ARCH 122 Visual Communication II

Prerequisite: ARCH 121 2.0 minimum This course is a continuation of Visual Communication I. Students will gain knowledge of basic color rendering techniques using a variety of media. (Sp)

ARCH 126 Architectural Model Building

Prerequisite: None

Students in this course will enhance their design and communication skills by developing various techniques for building three-dimensional architectural models. Examples constructed will range from the most basic of study models, using readily available materials, to more sophisticated presentation models. (F, Sp)

ARCH 128 Residential Design

Prerequisite: ARCH 100 2.0 minimum

The goal of this course is to study the theories and practices of single-family residential design. Through research, layout of interior design elements, and their application in preliminary design format, students will advance their knowledge of residential design. Development of lettering and verbal communication skills will be emphasized through presentation. (F, Sp)

ARCH 141 Architectural History I

Prerequisite: None

Beginning with ancient times, this course studies the major civilizations and works of architecture, and analyzes the form and function of the built environment contributed by the most significant of the Western civilizations. A variety of visual media will be used to present the major theories, architectural works, and the significant personalities contributing to architecture up to the Italian Renaissance. (F,

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ARCH 142 Architectural History II

Prerequisite: None

Recommended: ARCH 141

This course is the second in a series about the architectural history of the western world. The works and figures of architecture and the decorative arts in western architectural history form the 1600's to contemporary times are examined. (F. Sp)

ARCH 146 Preser/Adaptive Reuse Architec

Prerequisite: None

This course is designed as an overview of the principles and practices of preservation, restoration, and adaptive reuse architecture. Students will have the opportunity to work on a project of their choosing while being introduced to research methods, publications, and examples of preservation and the adaptive re-use of existing structures. (F, Sp)

ARCH 181 Barrier-Free Design

Prerequisite: None

Access for people with disabilities to building and other man-made environments will be discussed as well as the application of the Americans with Disabilities Act (ADA) and other residential and commercial building codes. Elements of successful design will be emphasized as well as their design and construction. (F, Sp. Su)

ARCH 182 Universal Design

Prerequisite: None

Recommended: ARCH 100 and ARCH 181 Students will learn to apply the requirements of the Americans with Disabilities Act (ADA) and building codes to successfully design solutions to both commercial and residentiel design problems. Both study cases and original design projects will be used as well as first hand experiences. (F, Sp)

ARCH 201 Commercial Design

Prerequisite: ARCH 100 2.0 minimum and Math Level 4

Recommended: ARCH 141 or Concurrently

Students will use previously obtained drawing, research, and presentation skills to design, delineate, and present a light commercial project from basic schematics to presentation drawings. (F, Sp, Su)

ARCH 202 Commercial Drawing

Prerequisite: ARCH 201 2.0 minimum

Recommended: ARCH 271 or Concurrently Students will use previously obtained drewing, research, and presentation skills to complete working drawings including floor plans, elevations, sections, and details for the light commercial projects started in ARCH 201. (Sp)

ARCH 211 Design Studio

Prerequisite: ARCH 100 2.0 minimum

This course is an introduction to the basic theories and methods of architectural design, problem-solving techniques, and design methodologies using contemporary architects as examples. Students will be given a series of problem-solving exercises and will be instructed in developing presentation and verbal techniques to present their solutions. (F, Sp)

ARCH 213 Facilities Design

Prerequisite: ARCH 100 2.0 minimum In this course, students will explore, tour, and study the design theory behind a full range of structures used for office and manufacturing purposes. Systems of manufacturing and how they relate to the structures which house them will be studied. (F, Sp)

ARCH 221 Architectural DataCAD I

Prerequisite: None

Recommended: ARCH 100 or Equivalent and Windows Experience This is an introduction to architectural computer-aided drafting. Students will use Data CAD's Edit and Utility functions to create a series of two-dimensional drawings, including floor plans, elevations and building sections. An introduction to DataCAD's 3-D Modeler will also allow students to develop basic three-dimensional images. (F, Sp. Su)

ARCH 222 Architectural DataCAD II

Prerequisite: ARCH 221 2.0 minimum

This course is a continuation of ARCH 221 and will develop students' skills by introducing advanced two-dimensional operations, the creation and use of template symbols, and a complete overview of DataCAD's macro programs, Complete three-dimensional modeling will be taught including complex 3-D entities for developing professional presentations. (F, Sp)

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ARCH 225 Arch DataCAD Independent Study

Prerequisite: ARCH 222 2.0 minimum and Department Approval

This course is intended to give advanced architectural students an opportunity to complete a special project(s) that relates to the student's curriculum. The student will research, outline, design and construct a project(s) of their own selection with the approval and guidance of the instructor, using the DataCAD software program. (F, Sp, Su)

ARCH 231 Architectural AutoCAD I

Prerequisite: None

Recommended: ARCH 100 or Equivalent and Windows Experience

This entry-level course introduces AutoCAD, a PC-based computer graphic system, for architectural applications. Students will concentrate on two-dimensional drawing and editing functions for creating floor plans, elevations, and building sections. An introduction to three-dimensional modeling techniques will also be covered. (F, Sp, Su)

ARCH 232. Architectural AutoCAD II

Prerequisite: ARCH 231 2.0 minimum

This course is a continuation of the basic/introduction of AutoCAD, and utilizes advanced two-dimensional techniques and a strong emphasis in the three-dimensional environment. The course will also emphasize advanced methods of drawing/file setup, presentation techniques, and introduce the student to various methods of program customization. (F, Sp)

ARCH 235 Arch AutoCAD Independent Study

Prerequisite: ARCH 231 2.0 minimum and Department Approval

This course is intended to give advanced architectural students an opportunity to complete a special project(s) that relates to the student's curriculum. The student will research, outline, design and construct a project(s) of their own selection, with the approval and guidance of the instructor, using the AutoCAD software program. (F, Sp, Su)

ARCH 237 Arch Computer Rendering 3

Prerequisite: None

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Recommended: (ARCH 222 or ARCH 232) and Windows Experience This course is intended for the advanced architectural computer graphics student. Using the three-dimensional graphics skills obtained in one or more of the architectural preliminary computer graphics courses, students will learn to produce three-dimensional wire frame models, advanced architectural computer renderings, and photo realistic pictorials. (Sp)

ARCH 271 Structural Theory

Prerequisite: Math Level 4

Recommended: ARCH 100 or Equivalent

This course introduces the principles of statics and relates the application of physical forces to structural materials and elements. The structural and design properties of steel, wood, and concrete will be studied. The ability to read structural tables and accurately make calculations will be emphasized. (F, Sp)

ARCH 273 Environmental Systems

Prerequisite: None

Recommended: ARCH 100 or Equivalent This course is designed for architecture and interior design students. All elements affecting the interior environment of a commercial or residential structure, such as lighting, HVAC systems, and acoustics, will be studied. Calculations and the sizing of systems will be part of all sections. (F)

ARCH 274 Arch Professional Practice 3

Prerequisite: None

Students will have the opportunity to study the configuration, responsibilities, and ethics of professional architectural offices. Students in this course will examine and visit various offices of architectural, engineering, and construction industry firms. In addition, students will explore job responsibilities, personnel roles, and procedures used in the creation and production of construction documents. (F, Sp)

ARCH 276 Alternative Structures

Prerequisite: None

A survey of several unconventional construction types that include concrete systems, log building, pole construction, timberframe, structural insulated panel, straw bate, tire building and earthen systems. Field examples will demonstrate many different technologies, Concepts will relate these structures to emerging appropriate architecture issues: integrated technologies, material sustainability and recycling in construction. (F, Sp)

ARCH 278 Building Science

Prerequisite: None

Building science is used to examine how buildings work. The concept of systems integration is studied from the perspective of the building and its occupants in their environmental context. Computer assisted calculation of heat loss, passive solar design and economic analysis will be covered. Communication and analytic skills will be developed through classroom activities and research. (F, Sp)

ARCH 283 Materials of Construction

Prerequisite: None

Recommended: ARCH 100 or Equivalent

This course consists of the evaluation of the various characteristics of all materials commonly used in residential and light commercial structures. Students will develop a sensitivity to the use of building products based on a knowledge of their properties, limitations, and availability. (F, Sp)

ARCH 295 Arch Independent Study

Prerequisite: Department Approval

This course will give advanced architectural students an opportunity to complete a special project(s) that relates to their architectural curriculum. With the approval and guidance of an instructor, the students will research, outline, design, and construct a project(s) of their own selection. (F, Sp, Su)

ARTS - Art. Design and Multimedia

ARTS 102 Design & Communication

Prerequisite: Reading Level 5 and Writing Level 2

Recommended: Computer Experience

An examination of visual communications theory, process and history. Students will study the universal elements and principles of two-dimensional design and their applications in monochromatic, color, still, and time-based media. (F, Sp, Su)

ARTS 103 3-Dimensional Design

Prerequisite: ARTS 102 2.0 minimum or IMAG 112 2.0 minimum Line, shape, form, value, color, and texture are explored using a variety of threedimensional materials and applying principles and elements of design. (F, Sp)

ARTS 105 Adobe Photoshap for Non-Majors Prerequisite: None

Recommended: Computer experience

This course is designed to give non-majors an introduction to the Adobe Photoshop software. Students will learn file formats and saving files properly, scanning, color correction and adjustment, compositing, and image manipulation of print and digital images for web use and printed output. (F, Sp, Su)

ARTS 110 Special Topics in Fine Arts

Prerequisite: None

This course offers students the opportunity to learn new art techniques, skills and/or styles. These topics are open to students of all skill levels. Specific topics will vary by semester; check semester schedule book for topics to be offered. (F, Sp)

ARTS 114 Oriental Watercolor

Prerequisite: None

An introduction to the materials and techniques that are unique to Oriental watercolor and calligraphy. Examines rice paper characteristics and degrees of paper wetness; brushes and tools; calligraphy; and inscriptions and seals. Students will also learn the underlying philosophy behind the practice of Oriental watercolor. (F, Sp)

ARTS 131 Drawing I.

Prerequisite: (ARTS 102 2.0 minimum or IMAG 112 2.0 minimum or INTR 110 2.0 minimum) or Concurrently

An introductory studio course using a variety of drawing media and methods that introduces both realism and abstraction. Fundamental elements of drawing, concepts of perception, and exploring properties of various media are stressed. Basic principles of one- and two-point perspective are covered. (F, Sp, Su)

ARTS 132 Figure Drawing

Prerequisite: ARTS 131 2.0 minimum

Basic concepts, approaches, and techniques involving drawing the human figure, using materials such as pencil, ink, charcoal, and conte crayon. (F, Sp, Su)

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ARTS 133 Surface Anatomy for Artists	3
Prerequisite: ARTS 132 2.0 minimum or Concurrently This course is designed specifically for the visual artist. Emphasis will be on i fying and visually representing the effects that the skeletal and muscular syst and body type have on human surface anatomy. Live models will be used. course cannot be taken as a Science Department anatomy requirement. (F,	ems This
Su)	
ARTS 136 Figure Sculpture	4
Prerequisite: ARTS 132 2.0 minimum A studio course in the 3-Dimensional representation of the human figure. The Jent will use various modeling tools to sculpt the figure in clay. Projects nolude: gestural sketches, anatomical details, and reclining, seated and stan ull-figure poses. (F, Sp)	will
ARTS 137 Perspective Drawing	2
Prerequisite: ARTS 131 2.0 minimum This course provides further development of the drawing process by preser expanded perspective principles and quality of light with an emphasis on vis zation. (F, Sp, Su)	
APTC 140 Brintmaking L	4
ARTS 140 Printmaking I Prerequisite: ARTS 102.2.0 minimum or Concurrently	4
An introduction to the various printmaking techniques, tools, and vocabulary o rintmaker. Includes etching, collagraph, monoprinting, and linoleum cut. (F, S	
ARTS 141 Printmaking II	4
Prerequisite: ARTS 140 2.0 minimum Students expand on processes and concepts introduced in Printmaking (A 40). Emphasizes refining technical skills and conceptual development. (F, Sp	
ARTS 145 Screen Printing I	4
Prerequisite: ARTS 102 2.0 minimum or Concurrently An introduction to basic silkscreen stencil processes with an emphasis on re- ration techniques. Includes constructing a frame and making a phototra- varency. (F, Sp)	
ARTS 146 Screen Printing II	4
Prerequisite: ARTS 145 2.0 minimum Students expand on processes and concepts introduced in Screen Printi ARTS 145). Includes an in-depth study of photographic processes in combine vith paper, cut film, and block-out stencils. (F, Sp)	
ARTS 151 Computer Graphics/Illustration	3
Prerequisite: ARTS 131 2.0 minimum Recommended: Windows 95/98/NT Experience An introduction to digital painting and illustration. Integrates foundational draw and design skills with the creation and manipulation of digital art media. Sourse prepares students in advanced image creation for all ARTS curricula sp. Su)	This
ARTS 153 Conceptual Illustration	3
Prerequisite: ARTS 131 2.0 minimum This is an introductory level course in visual thinking, conceptual drawing and lering, creative processes and studio practices. Students will learn to trans erbal ideas (concepts) into visual information in the form of drawings and ma enderings. (F, Sp)	late
ATS 162 Typography	Э.
rerequisite: (ARTS 102 2.0 minimum or IMAG 112 2.0 minimum) or	•
Concurrently in introduction to the use of type in visual communication with an emphasis reativity and problem-solving. Students will be introduced to the tools and m als of manual and digital type techniques necessary to professionally use to F, Sp, Su)	ate-
RTS 171 Computer Graphics/Digital Imag	3
Prerequisite: ARTS 102 2.0 minimum or IMAG 112 2.0 minimum	3

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compositing. (F, Sp, Su)

ARTS 173 Computer Graphics/Web Design

Prerequisite: ARTS 171 2.5 minimum or Concurrently A course in visual design — the effective visual presentation of ideas for the web from concept and design to structure, preparation and production. Focus on the elements and principles of design as applied to layout, graphics and animation. (F, So, Su)

ARTS 175 Electronic Design

Prerequisite: ARTS 102 2.0 minimum and ARTS 162 2.0 minimum Recommended: Knowledge of Mac OS and Basic Keyboarding Skills An introduction to page layout software and vector-based illustration software programs utilizing the Macintosh computer. Emphasis is on using electronic publishing applications for design. (F, Sp, Su)

ARTS 190 Matting and Framing Techniques

Prerequisite: None

An overview of the various materials and techniques for displaying and exhibiting artwork. Students will apply demonstrated techniques to matting and framing their work. (F, Sp)

ARTS 195 Employ/Bush Issues for Artists

Prereguisite: None

An introduction to business, legal, and marketing issues relevant to visual artists. Students will be introduced to copyright, contracts and negotiation concerns, and basic record keeping: (F, Sp)

ABTS 200 Painting I

Prerequisite: ARTS 102 2.0 minimum and ARTS 131 2.0 minimum An introduction to oil and acrylic painting concepts in the Western tradition, ranging from Renaissance to Contemporary. Examines basic materials, tools, techniques, and modes of expression. (F, Sp, Su)

ARTS 201 Painting II

Prerequisite: ARTS 200 2.0 minimum A continuation of Painting I. (ARTS 200) emphasizing more advanced techniques and increasingly complex problems in painting. A variety of media, techniques. and approaches is encouraged. (F, Sp, Su)

ARTS 203 Figure Painting

Prerequisite: ARTS 102 2.0 minimum and ARTS 132 2.0 minimum A studio course in the human figure using various media such as oil paint, water color, acrylic paint, and pastel. (F, Sp, Su)

ARTS 204 Watercolor I

Prerequisite: ARTS 102 2.0 minimum and ARTS 131 2.0 minimum An introduction to the art of transparent watercolor. Examines paper characteristics, degrees of wetness, brushes and tools, and various techniques in producing watercolor art works. (F, Sp)

ARTS 205 Watercolor II

Prerequisite: ARTS 204 2.0 minimum A continuation of Watercolor I (ARTS 204) emphasizing more advanced techniques and increasingly complex problems using watercolor. (F, Sp)

ARTS 206 Advanced Watercolor

Prerequisite: ARTS 205:2.0 minimum

An opportunity for the advanced student to continue with his or her personal exploration and development of watercolor skills under the guidance of an instructor. (F, Sp)

ARTS 213 Illustration Fundamentals

Prerequisite: ARTS 132 2.0 minimum

Illustrative techniques are utilized to prepare working sketches and convert them to finished illustrations. This course includes a variety of contemporary, realistic techniques. Emphasis is placed on sound draftsmanship and solving simple graphic problems through illustration. (F, Sp)

ARTS 216 Humorous Illustration I

Prerequisite: ARTS 132 2.0 minimum

Basic humorous illustration/cartooning foundations are demonstrated. Exercises are given on cartooning heads, animals, objects, and drawing techniques. Graded projects include a caricature utilizing a drawing technique. Originality and imagination are emphasized. (F, Sp, Su)

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ARTS 217	Humorous Illustration II		

Prerequisite: ARTS 216 2.5 minimum A continuation of Humorous Illustration I designed to expand the student's humorous illustration skills through a variety of black-and-white and color projects. Projects will concentrate on the various commercial applications of humorous illustration. (Sp)

ARTS 221 Airbrush Techniques I

Prerequisite: None

Introduction to the operation and techniques of the airbrush in shading and creating textures in both black and white and color. Assignments include using various masking methods and freehand techniques. (F, Sp, Su)

ARTS 222 Airbrush Techniques II

Prerequisite: ARTS 131 2.0 minimum or Concurrently and ARTS 221 2.0 minimum A continuation of Airbrush Techniques I (ARTS 221) with an emphasis on more complex airbrushing problems including portrait rendering and painting of nonmetallic surfaces. A variety of surfaces will be used including fabric, leather, fingernalls, and pastries. (F, Sp, Su)

ARTS 225 Comic Book Illustration

Prerequisite: ARTS 216 2.0 minimum

This class is the foundation course for producing Sequential Art. It deels with techniques applicable in the design and rendering of artwork used in contemporary illustrated publications such as comic books, comic strips, graphic novels, and editorial cartoons. (F. Sp)

ARTS 226 Storyboards

Prerequisite: ARTS 225 2.5 minimum Storyboards are the standard method of translating visual information for animation, video and film. This course teaches visual thinking and techniques for design-

ing and drawing professional storyboards. (F, Sp) ARTS 228 Advanced Digital Imaging

Prereguisite: ARTS 171 2.5 minimum

An advanced level study in the manipulation and processing of digital photographic images. Emphasis is on professional scanning, manipulation and output of digital images using available software products. Instruction includes preparation of images for prepress (hardcopy) and soft display (Multimedia, CD-ROM and World Wide Web). (F, Sp; Su)

ARTS 229 Comp Graphics/Adv Web Design

Prerequisite: ARTS 173 2.5 minimum and (ARTS 228 2.5 minimum or Concurrently)

An advanced course in interaction and its application to web design problems. Focuses on the structuring of information, conceptualization and sequencing in the design of web sites. (F, Sp)

ARTS 231 Comp Graphics/Advanced Illustr

Prereguisite: ARTS 228 2.5 minimum An advanced digital illustration course with an emphasis on problem-solving and integration of multiple software for purposed output. Assignments include stylized drawing techniques and design-oriented composition (F, Sp, Su)

ARTS 232 Comp Graphics/2-D Animation

Prerequisite: ARTS 216 2.5 minimum and ARTS 151 2.5 minimum and ARTS 171 2.5 minimum

Creation of 2-D animations using the computer. Emphasis is on the theory and principles of animation. Student will develop an animation of a bipedal character. (F, Sp)

ARTS 234 Comp Graphics/3-D Animation I

Prerequisite: ARTS 151 2.5 minimum and ARTS 171 2.5 minimum An introduction of 3-D solid modeling, rendering techniques and animation on a desktop graphics system. Introduction of the principles of designing for video. (F, Sp)

ARTS 235 Comp Graphics/3-D Animation II

Prerequisite: ARTS 234 2.5 minimum

A continuation of 3-D Animation I (ARTS 234), Emphasis on creation of more complex models and animations. (F, Sp)

ARTS 236 Computer Graphics/Production

Prerequisite: (ARTS 229 2.5 minimum or ARTS 233 2.5 minimum or ARTS 235 2.5 minimum) and ARTS 228 2.5 minimum

This course covers analysis, design, and development of a completed electronic project such as a CD, videotape, or WWW publishing. Techniques include recording and editing of two- and three-dimensional graphics, animation, video, audio, and imaging. Students implement theory and practice for designing, producing, and disseminating multimedia at planning pre-production, managing production, and post-production levels. (F, Sp)

ARTS 237 Comp Graphic/Flash Game Design

Prerequisite: ARTS 229 2.5 minimum and CISB 119 2.0 minimum

This course introduces students to the fundamental programming concepts used to create 2D games. Students will learn what makes a good game, how to design it, and how to program it for web delivery using ActionScript, the object-oriented scripting language in Flash. (F, Sp)

ARTS 238 Comps and Animatics

Prerequisite: ARTS 151 2.5 minimum and (ARTS 232 2.5 minimum or ARTS 234 2.5 minimum)

Recommended: Experience with a digital editing software such as Adobe Premiere or After Effects

The purpose of this course is to prepare the student to make comprehensive presentation art for print advertising, illustrated periodicals, storyboards, and animatics. This is an advanced level sequential art and production rendering course. Students will produce artwork using traditional media as well as computer software. (F, Sp)

ARTS 240 Art for Elementary Teachers

Prerequisite: None Especially for elementary school teachers responsible for the student art experience. Emphasis on developing a greater art appreciation, awareness of art forms, and competency working with a variety of art media. Covers the creative and mental growth of children and their needs in an art situation. (F, Sp, Su)

ARTS 251 Graphic Design I

Prerequisite: ARTS 102 2.0 minimum and (ARTS 175 2.0 minimum or Concurrently)

An overview of the designer's role in developing comprehensive designs for clients. Color, paper, and type selection will be emphasized. (F, Sp)

ARTS 252 Graphic Design II

Prerequisite: ARTS 251 2.5 minimum An overview of publication design and the designer's role in the creative organization of typography, photography, and illustration. Emphasis on editorial concept, format, and design considerations. (F, Sp)

ARTS 253 Graphic Design III

Prereguisite: ARTS 252 2.5 minimum and MKTG 140 2.5 minimum An advanced collaborative learning course involving corporate image and the design of promotional graphics, both two- and three-dimensional. Utilizes innovative design and media considerations. (F, Sp)

ARTS 257 Computer Prepress Prod Tech

Prerequisite: (ARTS 228 2.5 minimum or Concurrently) and ARTS 252 2.5 minimum An overview of digital prepress techniques for computer-generated media, including color separations, trapping, output, and digital file preparation. Instruction includes computer system components, printing terminology and processes. The course emphasis is on professional knowledge and accuracy. (F, Sp)

ARTS 260 Topics in Design & Multimedia

Prerequisite: ARTS 228 2.5 minimum or Concurrently

A study of specific topics affecting the areas of graphic design and multimedia. This course is designed to expose students to the latest theories and practices in the area. Course format will include lectures, discussion, demonstration and hands-on experiences. (F. Sp)

ARTS 261 Topics in Design & Multimedia

Prerequisite: ARTS 228 2.5 minimum or Concurrently

A study of specific topics affecting the areas of graphic design and multimedia. This course is designed to expose students to the latest theories and practices in the area. Course format will include lectures, discussion, demonstration and hands-on experiences. (F. Sp)

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A	RTS 267 Advanced Drawing 3	ARWS 139 Multi-Media Web Graph
A st va ex	rerequisite: ARTS 131.2.0 minimum n advanced drawing course involving more complex problems and techniques in ill life, landscape, portraits, and clothed models. Includes further exploration of arious materials, including color media and papers, as well as mixed media and sperimental techniques. Development of personal style and technique will be mphasized. (Sp)	Prerequisite: None A hands-on course designed to prov multi-media and web page design. E creative and/or visual learners using media/web software. (F, Sp, Su)
e		ARWS 141 Watercolor Workshop
P U si m ai	RTS 269 The Portfolio 2 rerequisite: Department Approval 1 nder instructor supervision, students will assemble their best work into a cohe- 1 ve, relevant presentation for the purpose of securing career-oriented employ- 1 uest Job search/market skills content, including creative resumes, letter-writing, 1 nd self-promotion will focus on matching individual presentations to specific 1 areer goals. ARTS 269 is intended as the final program course. (F, Sp) 1	Prerequisite: None A condensed learning experience int watercolor. Emphasis is on the use o and techniques. Students will progres ops. (F, Sp. Su) ARWS 145 Landscape Painting & Prerequisite: None
Â	RTS 270 Comp Graphics Independ Study 3	Emphasis is on the use of color, per
lr ⊤ di	rerequisite: Department Approval dividual pursuit of special projects not incorporated in regular class offerings, he student must submit a written application detailing his or her project to receive epartment approval. (F. Sp. Su)	landscape. Most sessions spent in the ARWS 201 Macromedia Dreamwe Prerequisite: None Recommended: Windows 95/98/NT
	HTS 272 Printmaking Independent Study 3 rerequisite: Department Approval	A condensed, hands-on workshop d ning knowledge of Mecromedia Drea
lr T	rerequisite: Department Approval idividual pursuit of special projects not incorporated in regular class offerings. The student must submit a written application detailing his or her projects to aceive department approval. (F, Sp, Su)	ARWS 202 Macromedia Dreamwe Prerequisite: ARWS 201 A condensed, hands-on workshop
А	RTS 276 Art Independent Study 3	advanced knowledge of Macromedia
· Ir T	rerequisite: Department Approval dividual pursuit of special projects not incorporated in regular class offerings. he student must submit a written application detailing his or her project to receive epartment approval. (F, Sp, Su)	(F, Sp) ARWS 203 Macromedia Flash I Prerequisite: None Recommended: Windows 95/98/NT
	RTS 201 Art Internship 3 rerequisite: Department Approval	A condensed, hands-on workshop d ning knowledge of Macromedia Flas
a H	n off-campus field study. Students will gain pre-career experience by working in studio environment under the supervision of a professional artist/designer. legularly scheduled progress reports will be given and discussed with supervis- ig faculty member. A minimum of 13 hours per week. (F, Sp, Su)	ARWS 204 Macromedia Fiash II Prerequisite: ARWS 203 A condensed, hands-on workshop advanced knowledge of Macromedia
	ARWS - Art Seminars and Workshops	ARWS 221 Calligraphy I
F A	RWS 120 Basic Drawing rerequisite: None In introductory course using a variety of materials including pencil, charcoal, and Ik. For non-majors. (F, Sp, Su)	Prerequisite: None Introduces the student to the art of fir lettering, surveying different styles adaptation to modern use. (F, Sp)
•		ARWS 224 Cartooning Workshop
P A u	Intro to Computer Illustration 1 rerequisite: None . condensed, hands-on introduction to computer graphics, utilizing sophisticated, ser-friendly artistic software. This workshop uses Procreate Painter on Windows omputers. (F, Sp, Su)	Prerequisite: None Emphasizes simple but imaginative action in a variety of media includin Previous drawing experience helpful
م	RWS 133 Intro Electronic Page Layout	ASTR - Astronomy
	rerequisite: None	ASTR 201 Introductory Astronom
k E A	condensed hands-on workshop designed to provide the student with a working nowledge of Aldus PageMaker software utilizing a Macintosh computer. Imphasis is on desktop publishing applications. (F, Sp, Su) INEWS 136 Intro to Adobe Illustrator	Prerequisits: Reading Level 5 and A survey course of astronomy. To motions, and orbital mechanics; the cal instrumentation; the Earth, the nucleosynthesis, and stellar charac
Ą	<pre>rerequisite: None condensed, hands-on workshop designed to provide the student with a working</pre>	tion; and galaxies and cosmology. (F
k	nowledge of Adobe Illustrator software utilizing a Macintosh computer. Emphasis . s on desktop publishing applications. (F, Sp, Su)	AUTE - Auto Body Collision Re
		AUTE 110 Non-Structural Repair
	IRWS 137 Intro to Adobe Photoshop 1 Prerequisite: None	Prerequisite: Department Approval Recommended: Evidence of Mecha
Δ	condensed hands-on workshop designed to provide the student with a working	This course introduces the student to

sion repair field environment. (F, Sp, Su)

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applications. (F, Sp, Su)

knowledge of Adobe Photoshop software. Emphasis is on desktop publishing

9 Multi-Media Web Graphics

site: None

on course designed to provide the student with a working knowledge of la and web page design. Emphasis is on web design issues for artistic, nd/or visual learners using Macintosh computers and a variety of multib software. (F, Sp, Su)

1 Watercolor Workshop

site: None

sed learning experience introducing the student to the art of transparent r. Emphasis is on the use of different papers, degrees of wetness, tools, iques. Students will progress to more complex problems as ability develp, Su)

15 Landscape Painting & Drawing

is on the use of color, perspective, and compositional strategies of the e. Most sessions spent in the field. All types of media are acceptable. (Su)

1 Macromedia Dreamweaver 1

ended: Windows 95/98/NT Experience

sed, hands-on workshop designed to provide the student with a begin-(ledge of Mecromedia Dreamweaver software for web site design. (F. Sp)

2 Macromedia Dreamweaver II

site: ARWS 201

nsed, hands-on workshop designed to provide the student with an knowledge of Macromedia Dreamweaver software for web site design.

3 Macromedia Flash I

site: Nórie

ended: Windows 95/98/NT Experience

sed, hands-on workshop designed to provide the student with a beginvledge of Macromedia Flash software for web site design. (F, Sp)

14 Macromedia Flash II

nsed, hands-on workshop designed to provide the student with an knowledge of Macromedia Flash software for web site design. (F, Sp)

21 Calligraphy I

site: None

is the student to the art of fine writing using italic pens. Emphasis on hand surveying different styles and scripts used in early manuscripts, and n to modern use, (F, Sp)

24 Cartooning Workshop

zes simple but imaginative characterizations and dramatic exaggerated a variety of media including pencil, fibertipped pen, and brush and ink drawing experience helpful. (F. Sp. Su)

1 Introductory Astronomy

site: Reading Level 5 and Writing Level 6 and Math Level 4

course of astronomy. Topics include the celestial sphere, apparent and orbital mechanics; the nature of light, spectroscopy and astronomimentation; the Earth, the Moon, the Sun and the solar system; stellar nthesis, and stellar characteristics, distances, classification and evolugalaxies and cosmology. (F, Sp; Su)

nended: Evidence of Mechanical Ability

se introduces the student to elementary repairs that are completed in the collision repair industry. This allows the student to become familiar with the colli-

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AUTB 112 Advanced Non-Structural Repair

Prereguisite: AUTB 110 2.0 minimum or AUTO 141 2.0 minimum Recommended: Evidence of Mechanical Ability

This course is for students who are familiar with the auto body repair environment and are ready to begin development of specific marketable repair skills. (F, Sp, Su)

AUTB 114 Auto Body Welding and Cutting

Prerequisite: Department Approval

Recommended: Evidence of Mechanical Ability This course will present welding processes that will be the basis of many of the repair techniques in any advanced auto body course. MIG, TIG, oxyacetylene, resistance spot welding and plasma arc cutting are included. (F, Sp, Su)

AUTB 116 Auto Body Structural Repair

Prerequisite: (AUTB 110 2.0 minimum or AUTO 141 2.0 minimum) and (AUTB 114 2.0 minimum or AUTO 143 2.0 minimum)

This course addresses the repair of the unibody and vehicle frames which often are damaged by major collision forces. The student will learn damage diagnosis and repair techniques including stress relief, heating, welding and corrosion protection. (F, Sp, Su)

AUTB 118 Introduction to Refinishing

Prerequisite: Department Approval The material in this course will form the basis for all automotive refinishing work. Surface preparation, material selection and the use of hand and power tools (including automotive spray guns) will be covered. (F, Sp, Su)

AUTB 120 Advanced Refinishing

Prerequisite: AUTB 118 2.0 minimum or AUTO 145 2.0 minimum This course builds on skills developed in AUTB 118. Overall refinishing, spot repairs and color matching with a variety of contemporary color-coat materials will be stressed. (F, Sp, Su)

AUTB 122 Collision Repair Estimating 3

Prerequisite: (AUTB 112 2.0 minimum or AUTO 142 2.0 minimum) and (AUTB 116 2.0 minimum or AUTO 144 2.0 minimum) and (AUTB 120 2.0 minimum or AUTO 146 2.0 minimum)

This course prepares the student for analyzing collision damage, determining what parts are needed for repair, calculating labor allowances and figuring the total cost of repair. Collision repair manuals and computer programs will be used as sources of information. (F, Sp, Su)

AUTB 124 Automotive Plastic Repair

Prerequisite: AUTB 118 2.0 minimum or AUTO 145 2.0 minimum This course covers repair techniques and materials for repairing the wide variety of plastic materials used in the manufacturing of current vehicles. Refinishing repaired parts is also included. (F, Sp, Su)

AUTB 160 Auto Body Repair and Painting

Prereguisite: Department Approval

Recommended: Evidence of Mechanical Ability

This course covers the identification and safe operation of various equipment in auto body and refinishing facilities. Students will learn to diagnose problems, make necessary repairs and perform refinishing. Disposal of hazardous wastes will be. taught in accordance with applicable laws. This course follows Auto Collision Repair (I-CAR) National standards. (F, Sp, Su)

AUTB 161 Collision Repair Service Lab

Prerequisite: Department Approval Recommended: Evidence of Mechanical Ability.

This laboratory course is designed to provide work experience and develop trade-

entry skills in general. (F, Sp, Su)

AUTB 162 Collision Repair Internship

Prerequisite: Department Approval Recommended: Evidence of Mechanical Ability

Students are able to earn credits while employed as a technician in collision repair. The program coordinator must approve the training station and working conditions. (F, Sp. Su)

AUTB 163 Auto Body Independent Study 1-4

Prereguisite: Department Approval

Recommended: Evidence of Mechanical Ability

Special research projects and/or individual readings are used to apply personal and professional experience to the academic area of interest. The completion of a written project report is required. (F, Sp, Su)

AUTB 204 Collision Repair Topics 4 Cred

Prerequisite: (AUTB 114 2.0 minimum or AUTO 143 2.0 minimum) and (AUTB 118 2.0 minimum or AUTO 145 2.0 minimum)

A study of various specific topics affecting collision repair and auto body restoration. Course format will include lectures, discussion, demonstration, and hands-on experiences. Specific topics vary by semester; check the semester schedule book for topics to be offered. (F, Sp, Su)

AUTB 205 Collision Repair Topics 5 Cred

Prerequisite: (AUTB 114 2.0 minimum or AUTO 143 2.0 minimum) and (AUTB 118 2.0 minimum or AUTO 145 2.0 minimum)

A study of various specific topics affecting collision repair and auto body restoration. Course format will include lectures, discussion, demonstration, and hands-on experiences. Specific topics vary by semester; check the semester schedule book for topics to be offered. (F, Sp, Su)

AUTB 206 Collision Repair Topics 6 Cred.

Prerequisite: (AUTB 114 2.0 minimum or AUTO 143 2.0 minimum) and (AUTB 118 2.0 minimum or AUTO 145 2.0 minimum)

A study of various specific topics affecting collision repair and auto body restoration. Course format will include lectures, discussion, demonstration and hands-on experiences. Specific topics vary by semester; check the semester schedule book for topics to be offered. (F, Sp, Su)

AUTO - Automotive

AUTO 100 Auto Service I

Prerequisite: Reading Level 3 and Writing Level 2 and Math Level 3

This course is intended to provide the student with an extensive orientation to an automotive repair facility while developing tool and equipment usage skills needed to advance in the automotive repair field. (F, Sp, Su)

AUTO 102 Basic Car Care for the Novice

Prereguisite: None

This course is designed for the typical automobile owner who wants to gain a better understanding of the automobile and be able to make some basic repairs. It will encompass an overview of servicing needs and factors related to vehicle safety. Students will be able to inspect their vehicles, make informed decisions on purchasing vehicle products and services, and identify service items the owner might do themselves. (F, So)

AUTO 110 Auto Electrical Theory

Prerequisite: AUTO 100 2.0 minimum or Concurrently

This course covers basic electron theory and how circuits work. Students will learn to access wiring diagrams, diagnose malfunctioning circuits in vehicles, and repair the malfunctions safely and according to National Automotive Technicians Education Foundation (NATEF) standards. (F, Sp)

AUTO 120 Auto Drive Train

Prerequisite: AUTO 100 2.0 minimum or Concurrently This course covers manual transmissions/transaxles, differentials and four-wheel drive components. Students will learn to diagnose, disassemble, inspect and reassemble these components according to National Automotive Technicians Education Foundation (NATEF) standards. (F, Sp)

AUTO 121 Automatic Transmissions I

Prerequisite: AUTO 110 2.0 minimum or Concurrently Course covers hydraulic and mechanical principles including diagnosis, removal, disassembly, inspection, and repair of automatic transmissions/transaxles according to National Automotive Technicians Education Foundation (NATEF) standards. (F. Sp)

AUTO 122 Automatic Transmissions II

Prerequisite: AUTO 121 2.0 minimum

This course expands on knowledge obtained in AUTO 121. Topics include diagnosis, disassembly, inspection, and reassembly of automatic transmissions/transaxles. Students will gain knowledge of three additional transmissions/transaxles in this class. All aspects of this course follow National Automotive Technicians Education Foundation (NATEF) standards. (F, Sp)

AUTO 130 Automotive Engines

Prerequisite: AUTO 110 2:0 minimum or Concurrently

This course covers the disassembly, inspection (using specialized tools and measuring equipment), repair, and reassembly of an automotive engine according to engine manufacturer standards and National Automotive Technicians Education Foundation (NATEF) standards. (F, Sp, Su)

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AUTO 133 Small Engine Repair 3	AUTO 235 Adv Computer/ABS Brake System 3
Prerequisite: None This course uses the theory of operation for "small engines" (lawn mowers, out- board motors, chain saws, and other engines up to 18 horsepower) to diagnose problems in operation, repair or overhaul defective components, and make engines operate according to manufacturer standards. (F, Sp, Su)	Prerequisite: AUTO 140 2.0 minimum and AUTO 225 2.0 minimum This course covers automotive anti-lock braking systems and advanced computer systems, including the theory and how these systems function. Students will learn to diagnose, disassemble, and repair these systems according to the standards of the National Automotive Technician Education Foundation. (F, Sp)
AUTO 134 Light Duty Diesel Engines 3	AUTO 260 Intro to Alternative Fuels 2
Prerequisite: None This course covers the operation of a light duty diesel engine, diagnosis and repair of mechanical and electronic fuel injection systems, air induction and exhaust sys- tems diagnosis and repair, and general engine diagnosis according to the engine	Prerequisite: AUTO 130 2.0 minimum and AUTO 225 2.0 minimum Students will use various sources in the alternative fueled vehicle industry to learn what alternative fuels are available. Students will closely examine the technologies involved when using compressed natural gas (CNG) as a fuel for vehicles. (F. Sp) AUTO 261 Alternative Fuels - CNG 3
manufacturer standards. (F, Sp, Su)	Prerequisite: AUTO 260 2.0 minimum
AUTO 140 Automotive Brakes 3 Prerequisite: AUTO 110 2.0 minimum or Concurrently This course covers the diagnosis, service and repair of disc and drum standard anti-lock brake system problems according to National Automotive Technicians Education Foundation (NATEF) and manufacturer standards. (F, Sp, Su)	This course is designed to help prepare the student to enter the auto repair and service industry. It is an intensive study covering the use of compressed hatural gas (CNG) on automobiles and light trucks. Theory, application, installation, diagnosis and safety regulations pertaining to the use of CNG will be covered. (F, Sp)
	AUTO 262 Alt Fuels-Propane (LPG) 3 Prereguisite: AUTO 260 2.0 minimum
AUTO 150 Auto Steering & Suspension 3 Prerequisite: AUTO 100 2.0 minimum or Concurrently 3 This course covers automotive front end alignments and how steering and suspension systems work. Students will diagnose, repair and align steering and suspension 3	This course is an intensive study covering the use of propane as fuel for automo- biles and light trucks. Theory, application, installation, diagnosis and safety regu- lations applicable to LPG vehicles will be covered. (F, Sp)
pension systems according to National Automotive Technicians Education Foundation (NATEF) standards. (F, Sp)	AUTO 280 Automotive Service Laboratory 6 Prerequisite: Department Approval This laboratory course is designed to provide work experience and develop trade- entry skills in general and light-line repair. (F, Sp)
AUTO 160 Auto Heat & Air Conditioning 3 Prerequisite: AUTO 110 2.0 minimum or HERT 101 2.0 minimum	
Course covers the theory, diagnosis, recovery and recycling of Freon and the repair of automotive air conditioning systems according to National Automotive Technicians Education Foundation (NATEF) standards. (F, Sp, Su)	AUTO 285 Automotive Internship 3 Prerequisite: Department Approval Students are able to earn credits while employed as a technician in auto mechan- ics or auto body. The program coordinator must approve the training station and working conditions. (F, Sp)
AUTO 190 Automotive Special Topics 1	AUTO 286 Indepen Study/Automotive 1-4
Prerequisite: None The Automotive Special Topics series will feature topics related to the automotive industry. The lectures will allow participants to explore a wide variety of topics that will range from State of Michigan Recertification and Alternative Fuels to Advanced Drivability Diagnosis. Specific topics vary each semester; check the semester schedule book for topics to be offered. (F, Sp, Su)	Prerequisite: Department Approval Special research projects and/or individual readings are used to apply personal and professional experience to the academic area of interest. A presentation or written report is required at the end of the project. (Su) AVAE - Aviation Airframe Maintenance
AUTO 191 Automotive Workshop Series .25	AVAF 125 Aircraft Systems I 2
Prerequisite: None The Automotive Workshop Series will feature topics related to the automotive industry. The workshop format allows for hands-on participation in the particular topic area. Participants can explore topics from ABS Diagnosis to 4-Gas Analysis. Specific topics vary each semester; check the semester schedule book for topics to be offered. (F, Sp, Su)	Prerequisite: Department Approval The study of fuel management, transfer, defueling and fuel pump systems. The course covers the procedures used to inspect, check, service, troubleshoot and repair aircraft fuel systems and fuel system components. Course material empha- sizes fluid quantity indicating, fluid pressure and warning systems. (Sp) AVAF 126 Aircraft Systems II 6
AUTO 192 Automotive Workshop Series .5	Prerequisite: Department Approval
Prerequisite: None The Automotive Workshop Series will feature topics related to the automotive industry. The workshop format allows for hands-on participation on the particular topic area. Participants can explore topics from ABS Diagnosis to 4-Gas Analysis.	The study, analysis and repair of aircraft landing gear and brake systems and their , related warning systems. Includes the study, inspection, servicing and repair of air- craft hydraulic and pneumatic systems and their related components. (Sp)
Topics will vary by the semester; check the semester schedule book for topics to be covered. (F, Sp_z Su)	AVAF 127 Aircraft Systems III 3 Prerequisite: Department Approval Gourse covers the inspection, checking, troubleshooting, servicing and repair of the transmission of transmission of the transmission of tran
AUTO 215 Engine Performance/Tune-Up 5	aircraft heating, cooling, air-conditioning, pressurization, oxygen, ice and rain con- trol and fire protection systems. (Su)
Prerequisite: AUTO 130 2.0 minimum	AVAF 130 Avionics Airframe Applications 3
Students will obtain knowledge on ignition, fuel and emission systems, and will be introduced to computer controls. Topics include the diagnosis, removal, inspection, repair and reassembly of these systems based on National Automotive Technicians Education Foundation (NATEF) standards. (F, Sp)	Prerequisite: Department Approval This course covers airframe related subjects necessary for an avionics technician. Topics include aircraft structure principles, installation procedures, material and fastener identification and antenna installation procedures. Students will work with
AUTO 225 Automotive Computers 5	sheet metal and composite structures. (F)
Prerequisite: AUTO 215 2.0 minimum This course covers automotive engine computer systems, ignition systems, emis- sion systems, exhaust gas treatment systems, air induction, exhaust gas recircu- lation and early fuel evaporation systems. Students will diagnose, remove, inspect, repair and replace these systems according to National Association for Technical Education Foundation (NATEF) standards. (F, Sp)	AVAF 134 Aircraft Instruments 2 Prerequisite: Department Approval Course covers inspection, checking, servicing, troubleshooting, repair of electronic flight instrument systems, both mechanical and electrical speed, altitude, temperature, pressure and flow instrument systems. Also, special removal and installation techniques applicable to aircraft instruments included. (Su)

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1111 Sint	AVAF 208 Aircraft Structures 1 4	AVEL 190 Receiver Troubleshooting 2
(Astrone	Prerequisite: Department Approval	Prerequisite: None
Contraction of the local distribution of the	This course introduces the procedures for identification, inspection, testing and	Co-requisite Course(s): AVEL 191
2011/12/0	repairing of wood, fabric-covered and sheet metal aircraft. The installation and	Familiarization with basic superheterodyne receiver principles and operation using block diagrams and component level theory. Various logical troubleshooting tech-
211281280	removal of conventional rivets, forming of aircraft sheet metal, installation of spe- cial rivets and fasteners, and an introduction to applying finishing materials will	niques are discussed. (Su)
and the second	also be covered. (Sp)	
STATES CONTRACTOR		AVEL 191 Receiver Troubleshooting Lab 1
contrasts	AVAF 209 Aircraft Structures II 4	Prerequisite : None Co-requisite Course(s): AVEL 190
all all all all all all all all all all	Prerequisite: Department Approval	Familiarization with basic superheterodyne receiver principles and operation.
والمراجعة والمستر	Covers assembly and rigging of fixed wing and rotary wing aircraft control struc-	Various logical troubleshooting techniques will be put to practical use in the labo-
وكالتربقتين	tures. Provides practical application in removal, installation and adjustment of flight controls by balancing, cable tension and motion studies. Aircraft inspection proce-	ratory. Students construct, align and troubleshoot an AM superheterodyne receiver. (Su)
1	dures to insure conformity with flight safety standards will be included. (F)	
Contraction of the		AVEL 200 Flight Line Testing 2
- Character	AVAF 210 Aircraft Structures III 4	Prerequisite: None
man forder	Prerequisite: Department Approval	A study of the avionics systems found aboard modern aircraft focusing on the flight
	An advanced course covering inspection, repair, layout, bending and assembly of	line testing of such systems as VHF communications, VHF navigation, ADF, radar, autopilots and others. (F, Su)
	aircraft sheet metal inspection, testing and repair of fiberglass, plastics, honey- comb, composite and laminated structures are practiced. Installation and removal	
warment	of special fasteners for bonded and composite structures and servicing of aircraft	AVEL 201 Flight Line Testing Lab 1
Zerrowski	windows, doors and interior furnishings is included. (F, Sp)	Prerequisite: None
COLUMNO.		A practical study of the electronics systems found aboard modern aircraft, focus- ing on the flight line testing of such systems as VHF communications, VHF navi-
-	AVAF 211 Aircraft Electrical I 4	gation, ADF, radar, autopilots and others. (F, Su)
Councer and	Prerequisite: Department Approval	
udvikteni+	An intermediate aviation electrical course concentrating on theory, calculation and measurement of A.C. electrical systems. Includes reading and interpreting aircraft	AVEL 220 Avionics Systems I 3
- Andrews	electrical circuit diagrams, including those with solid-state devices and logic func-	Prerequisite: None Co-requisite Course(s): AVEL 221
2012/12/2010	tions. The installation, checking and servicing of airframe and engine wiring, con-	A study of the communications, navigation and other systems found in modern air-
	trols, switches, indicators and protective devices are also covered. (Sp. Su)	craft, focusing on component level repair and testing to manufacturer's specifica-
	AVAF 212 Aircraft Electrical II 4	tions. Students will have the opportunity to obtain factory certifications for the repair of various systems. (F)
- Colored		
- interest	Prerequisite: Department Approval Repair of airframe and engine electrical system components with an emphasis on	AVEL 221 Avionics Systems I Lab 2
CAN COTTON	the inspection, checking, servicing and repair of alternating and direct current sys-	Prerequisite: None
HOWARA	tems. General troubleshooting techniques are practiced with special emphasis on	Co-requisite Course(s): AVEL 220 A hands-on study of the communications, navigation and other systems found in
Contraction of the local division of the loc	A.C. and D.C. electrical systems. (Su)	modern aircraft, focusing on component level repair and testing to manufacturer's
	AVAF 246 National Airframe Cert Proced 1	specifications. (F)
	Prerequisite: Department Approval	AVEL 225 FCC License Preparation 1
	Study of the Federal Aviation Regulations pertaining to national certification as a	Prerequisite: None
	licensed airframe mechanic. Includes testing in all required areas of study as a	Federal Communication Commission rules and regulations are discussed as they
	prerequisite to receiving authorization to take the general and airframe national	pertain to the avionics technician. Elements 1 and 3 of the FCC General Radio-
harmon	certification test administered by representatives of the Federal Aviation Administration. (F)	telephone Operator's License examination are presented to prepare the student for successful completion of the actual examination. (F)
or Alladah		
	AVEL - Aviation Electronics	AVEL 226 FAA Hules/Hegs Avionics Techs 1
iron to tom		Prerequisite: None
John Same	AVEL 130 Avionics Installations 2	This course covers various Federal Aviation Administration rules and regulations as they pertain to avionics shop operations and the avionics technician. (F)
1134540	Prereguisite: None	
	This course includes familiarization with the various types of wires and connectors used in the construction of aircraft wiring harnesses. The student will develop skills	AVEL 230 Avionics Systems II 3
	in soldering, aircraft wiring diagram reading, standard procedures and weight and	Prerequisite: AVEL 190 2.0 minimum and AVEL 200 2.0 minimum
-	balance calculation. (F)	Restriction: Avionics Majors Co-requisite Course(s): AVEL 231
		A study of navigation, microwave pulse equipment and other systems found in
	AVEL 150 Avionics Test Equipment 2	modern aircraft, focusing on component level repair and testing to manufacturers'
an an an an an an an an an an an an an a	Prerequisite: None Co-requisite Course(s): AVEL 151	specifications. Students will have the opportunity to obtain factory certification of the repair of various systems. (Sp)
and the second second	Covers the operational characteristics and operation of basic and specialized test	
	equipment found in the aviation maintenance industry. Students will develop an	AVEL 231 Avionics Systems II Lab 2
	understanding of maintenance manual organization for electronic test equipment	Prerequisite: AVEL 201 2.0 minimum
- while is a more	and specialized aviation electronic equipment. Equipment covered includes multi-	Restriction: Avionics Majors Co-requisite Course(s): AVEL 230
· · · · · · · · · · · · · · · · · · ·	méters, oscilloscopes, power supplies, multifunction test generators, wattmeters, time domain reflectometers and spectrum analyzers. (Sp)	A hands-on study of navigation, microwave pulse equipment and other systems
WWW.	and serial solotion and spool and analyzers. (ab)	found in modern aircraft, focusing on component level repair and testing to manu-

AVEL 151 Avionics Test Equipment Lab

Prerequisite: None

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Co-requisite Course(s): AVEL 150

Subjects covered in AVEL 150 will be put to practical use in this laboratory. The student builds and calibrates his/her own digital volt ohm meter. The student will construct aircraft wiring harnesses and complete soldering exercises. Common electronic and specialized avionics test equipment are used in the lab. (Sp)

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Restriction: Avionics and Avionics Installation Majors

stations as established by the intern coordinator. (Su)

systems manufacturers' specifications. (Sp)

AVEL 297 Avionics Internship

Prerequisite: AVEL 151 2.0 minimum

Minimum 128 hours per semester as an aviation electronics intern. Part-time occupational internship in avionics technology. The internships will be at certified repair

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EL 299 Advanced Avionics Laboratory 2	AVGM - Aviation General Maintenance	
erequisite: AVEL 151 2.0 minimum striction: Avionics and Avionics Installation Majors	AVGM 111 Aviation General I	97. 19
udents will further develop troubleshooting and installation skills acquired in	Prerequisite: Department Approval	W. CAR
ner courses. Students will work in an environment close to actual working con-	This course is designed to develop the skills and knowledge required to weigh an	
ions in most avionics repair stations. (Su)	 aircraft and record the appropriate data. It involves mathematical and basic physics principles related to aviation, including aerodynamics, theory of flight, air- 	
WFT - Aviation Flight Training	craft structural design and simple machines. (F, Sp)	la di seconda
	AVGM 112 Aviation General II 6	1000
FT 201 Flight Training I 7.5	Prerequisite: Department Approval	Sec.
erequisite: Department Approval	Introduces the Federal Aviation Regulations involving the mechanic's privileges.	
ovides in-flight and ground training in a single-engine, non-complex aircraft cul-	limitations and related aviation operations. Includes the selection and use of avia- tion publications, maintenance forms, records, reports, alrcraft drawings, graphs	and a second
nating in aeronautical knowledge, experience and skill in accordance with the deral Aviation Administration Private Pilot Practical Test standards. (F, Sp)	and charts, symbols, blueprints and system schematics. Also focuses on aircraft	
	ground operations and servicing of related aircraft systems. (F, Sp)	
FT 202 Flight Training II 5	AVGM 113 Aviation General III 4	- university
erequisite: Department Approval	Prerequisite: Department Approvat	1. Contraction
ovides in-flight and ground training in a single-engine, non-complex airplane;	This initial aviation electrical course offers instruction in basic electrical theory and	1202
veloping the student's instrument, night and cross-country flying skills. (F, Sp,)	its aviation application. It includes the calculation and measurement of voltage. current resistance, continuity and power; and the theory, inspection and servicing	111-11-11
	of aircraft lead-acid and ni-cad batteries; and the construction of a volt-ohm meter.	
FT 203 Flight Training III 5.5	(F, Sp)	
erequisite: Department Approval	AVGM 114 Material and Processes 5	Arrestation
ovides instruction in a complex, single-engine airplane; developing the student's	Prerequisite: Department Approval	- Contraction
Il at Instrument Flight Rules (IFR) navigation and Air Traffic Control (ATC) pro-	This course covers identification and selection of the appropriate aviation hard-	
dures in en route and terminal environments. (F, Sp, Su)	ware, hand tools, cleaning materials, fluid lines and nondestructive testing meth-	to a local de la construcción de la construcción de la construcción de la construcción de la construcción de la
FT 204 Flight Training IV 5	ods. Performance of nondestructive testing, precision measurements, aircraft cleaning and corrosion control, fabrication, installation and testing of fluid lines is	or produced and
	cleaning and corrosion control, tabrication, installation and testing of fluid lines is included. (F, Sp)	6 11.00000
erequisite: Department Approval ovides in-flight and ground instruction in a complex airplane; developing student		- A A A A A A A A A A A A A A A A A A A
Ils in Instrument Flight Rules (IFR) navigation and Air Traffic Control (ATC) pro-	AVGS - Aviation Ground School	
dures in en route and terminal environments. Students will develop skills at per-	AVGS 101 Private Pilot Ground School 4	
ning commercial proficiency flight maneuvers. Upon completion of this course,	Prerequisite: None	
e student will take the practical test for commercial/instrument pilot airplane. (F,	Recommended: SDEV 124	
, Su)	This course prepares the student for successful completion of the Federal Aviation	
FT 205 CFI Flight Training 3.5	Administration private pilot written examination. The student will learn basic aero- dynamic theory, principles of aircraft/powerplant operation and performance.	
erequisite: Department Approval	Federal Aviation Regulations, air traffic control procedures, meteorology, naviga-	
boldes in-flight and ground training in common primary training and complex air-	tion and flight physiology. (F, Sp, Su)	
nes. The student will develop instructional skills necessary to train pilots for cer-	AVGS 121 Aviation Meteorology 4	
cation in accordance with Federal Avlation Regulations. The student will take	Prerequisite: None	
/her practical test for Certified Flight Instructor Airplane upon completion. (F, Sp,	Recommended: SDEV 124	
	This course focuses on the application of meteorological theory to the practical	
FT 206 Instrument Instructor Flight 2.5	aspects of flight planning. The student will understand basic concepts of weather, theory, obtain weather briefings by using a personal computer, interpret domestic	
erequisite: Department Approval	and international weather charts, forecasts and reports (ICAO) and make appro-	
ovides in-flight and ground training in a non-complex aircraft. The student will	priate "go/no go" decisions. (Sp)	
velop instructional skills necessary to train pilots for the instrument rating. The	AVGS 211 Instrument Pilot Ground School 4	
dent will take the practical test for the instrument flight instructor rating airplane	Prerequisite: None	
on completion of this course. (F, Sp, Su)	Recommended: AVGS 121 and SDEV 124	
FT 207 Multi-Engine Flight Training 1.5	This course prepares the student for successful completion of the FAA instrument	
	rating written examination. The student will learn operation and interpretation of the flight instruments the use of an route approach. SID and STAR charte for pay-	
erequisite: Department Approval wides in-flight and ground instruction in a multi-engine airplane. The student will	the flight instruments; the use of en route, approach, SID and STAR charts for nav- igation; air traffic control procedures and meteorology as it applies to the instru-	
e the multi-engine practical test upon completion of this course. (F, Sp, Su)	ment pilot. (F, Sp, Su)	
	AVGS 221 Commercial Pilot Ground School 4	
FT 208 Multi-Engine Instructor Flight .75	Prerequisite: None	
erequisite: Department Approval	Recommended: AVGS 121 and SDEV 124	
ovides in-flight and ground instruction in a multi-engine airplane. The student will	This course prepares the student for the successful completion of the FAA com-	
velop instructional skills necessary to train students for the multi-engine practi- test. The student will take the multi-engine instructor practical test upon com-	mercial pilot written examination. The student will develop knowledge of aerody-	
test, the subert wa take the multi-engine instructor practical test upon com- tion of this course, (F, Sp, Su)	namics, high performance aircraft systems, aircraft performance, Federal Aviation Regulations, navigation and flight planning, and meteorology as it applies to com-	
	mercial pilots. (F)	
FT 224 Tail Wheel Transition 1		
erequisite: Department Approval	AVGS 222 Flight Instruct Ground School 4	
ovides students with skills and knowledge required to safely operate a tailwheel	Prerequisite: None Recommended: AVGS 121	
craft under various conditions. This course is designed for transitioning from	This course will prepare the student for the successful completion of the FAA	
erations in a tri-gear aircraft to those of a tailwheel aircraft. Upon completion of	Fundamentals of Instructing and the Flight Instructor-Airplane and Advanced	
urse objectives, individuals are issued tailwheel endorsements as per the	Ground Instructor written exams. The student will develop a flight training syllabus	
deral Aviation Regulations. (F, Sp, Su)	with lesson plans for use in training pilots. (Sp)	

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	AVIR - Aviation Instrument Re	oair
4	AVIR 140 Avionics Instrument	S · ·
	Prerequisite: None	

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bic principles of operation, interpretation of indications, testing, proper handling, repair and calibration. Students will learn the proper use of pitot-static, digital encoder and instrument repair and test equipment. (F)
 6 AVPP Aviation Powerplant Maintenance

AVPP 241 Reciprocating Engine

Prerequisite: Department Approval

Presents the theory and practices used in the removal, inspection, overhaul, service, repair and installation of reciprocating engines. This course also studies the inspection, service, repair and troubleshooting of reciprocating engine lubrication systems. (F)

This course provides familiarization with common aircraft instruments to include

AVPP 251 Reciprocating Engine Systems

Prerequisite: Department Approval This course covers the inspection, servicing, troubleshooting and repair of reciprocating engine cooling and exhaust systems. In addition, the inspection requirements necessary to meet established conformity and standards of airworthiness are studied; and reciprocating engine operations and adjustments are conducted using FAA and maintenance publication procedures. (F, Sp)

AVPP 253 Reciprocating Ignition Systems

Prerequisite: Department Approval .

This course covers the operation, analysis, inspection, service and repair of reciprocating engine ignition systems and components. This includes magnetos, ignition harnesses, spark plugs and starter systems. (F, Sp)

AVPP 255 Reciprocating Induction System

Prerequisite: Department Approval

Study and analysis of reciprocating engine fuel systems and components. Includes inspection, checking, servicing, troubleshooting and repair of carburetors, water injection systems, heat exchangers, superchargers, intake and induction manifolds and other engine fuel system components. Also includes carburetor overhaul procedures. (F, Sp)

AVPP 257 Aircraft Propeller Systems

Prerequisite: Department Approval

Covers the study, analysis, service and repair of aircraft propellers, systems and controls. Includes propeller synchronizing, ice control, lubrication, balancing, pitch control, repair procedures and removal, and installation of both fixed-pitch and variable-pitch propellers. (F, Sp)

AVPP 259 Turbine Engine I

Prerequisite: Department Approval Covers the theory of operation and design of the varied turbine engine and turbine-driven auxiliary power unit types, including the induction and cooling systems of each. (F, Sp)

AVPP 261 Turbine Engine II

Prerequisite: Department Approval

Covers inspection, checking, servicing, repair, removal, installation and troubleshooting of turbine engines and systems. Detailed study of the lubrication system and inspection procedures to insure conformity with FAA specifications and standards are included. (Sp, Su)

AVPP 263 Turbine Engine Systems 2

Prerequisite: Department Approval This course is a detailed study of turbine-engine ignition, pneumatic and electric starters, exhaust and thrust reverser, fire detection and protection, fuel metering and electronic fuel control systems and components. Study also includes inspection, checking, servicing, repair and troubleshooting procedures. (Su)

AVPP 265 Powerplant Instruments

Prerequisite: Department Approval

This course covers the inspection and repair of turbine and reciprocating engine instruments. Troubleshooting of mechanical/electrical fluid rate-of-flow, temperature, pressure, RPM and airflow indicators will be included. (Sp. Su)

AVPP 267 National Powerplant Cert Proc

Prerequisite: Department Approval

Study of the Federal Aviation Regulations pertaining to national certification as a licensed powerplant mechanic. Includes testing in all required areas of study as a prerequisite to receiving authorization to take the powerplant national certification tests administered by representatives of the Federal Aviation Administration. (Sp. Su)

AVST - Aviation Simulator Training

AVST 211 Flight Simulator 1

Prerequisite: Department Approval Provides flight simulator and ground training to develop student's basic attitude instrument flying skills. Course is intended to be taken concurrently with AVFT 201. (F. Sp. Su)

AVST 212 Flight Simulator II

Prerequisite: Department Approval

Provides flight simulator and ground training to develop student's skills in IFR navigation and ATC procedures in terminal environment. This course is intended to be taken concurrently with AVFT 202. (F. Sp. Su)

AVST 213 Flight Simulator III

Prerequisite: Department Approval

Provides flight simulator and ground training to further develop the student's skills at IFR navigation and ATC procedures in en route and terminal environments. This course is intended to be taken concurrently with AVFT 203. (F, Sp, Su)

AVST 214 Flight Simulator IV

Prerequisite: Department Approval

Provides flight simulator and ground training to develop student skills to the level of instrument rating practical test standards. Student will perform simulated flights in en route and terminal environments, including compliance with emergency procedures. This course is intended to be taken concurrently with AVFT 204. (F. Sp. Su)

AVST 215 Multi-Engine Flight Simulator

Prerequisite: Department Approval Provides flight simulator training culminating in aeronautical knowledge and maneuvering skills in support of advanced visual and instrument flight training in multi-engine aircraft. Intended for the Flightmatic multi-engine simulator. (F, Sp, Su)

BDCS - Business Development Seminars

BDCS 201 Starting a Business

Prerequisite: None

Entrepreneurs are usually required to wear many "hats" and may have no idea what skills and processes are involved in starting and operating a business. If you decide that owning a business is feasible, this class can help you find assistance to begin and maintain a business. (F, Sp, Su)

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BDCS 202 Success Strategies Oper Sm Bus

Prerequisite: None

This seminar, presented by a successful business person, can save you both problems and money. What to avoid! What to look out for! Where to seek help! Where to cut costs! How to help ensure your chances of a successful business venture! Come and learn from those who can help. (F, Sp, Su)

BDCS 205 Recordkeeping with QuickBooks

Prerequisite: None

This seminar increases the participants' working knowledge of the accounting process and the maintenance of accounting records, ledgers, and income statements, and the preparation for income tax time. (F, Sp, Su)

BDCS 209 Finan Mgmnt for Sm Business

Prerequisite: None

This seminar offers practical presentation, application, and practice of basic financial management techniques, such as analyzing and applying information from balance sheets, income statement, and cash flow statements. (F, Sp, Su)

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BDCS 210 - BIOL 270

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BIOL 201 Human Anatomy Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4 Recommended: BIOL 121 or BIOL 127 and Chemistry

A study of the anatomy of the human body that includes the structures of the skeletal, muscular, nervous, sensory, circulatory, respiratory, digestive, excretory, endocrine, and reproductive systems. Designed for students preparing for health occupations such as nursing, radiologic technology, and dental hygiene. (F. Sp. Su)

BIOL 202 Human Physiology

Prerequisite: BIOL 201 2.0 minimum (previously ANAT 201) and Reading Level 5 and Writing Level 6 and Math Level 5

Recommended: BIOL 121 and Chemistry

The physiology, regulation, biochemistry, and integration of various organ systems in the human body are presented. Emphasis is on normal function, but appropriate clinical aspects may be discussed. Laboratory topics complement the lecture. Designed for students preparing for health occupations such as nursing, radiologic technology and dental hygiene. (F, Sp, Su)

BIOL 203 Microbiology

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

Recommended: BIOL 121 or BIOL 127 and Chemistry An introduction to bacteria, viruses, and other microorganisms as they relate to human health. Emphasis on bacterial and viral structure, life cycles, and genetics; antimicrobial therapy; immunology and host defenses; epidemiology, treatment, and prevention of infectious human diseases. Designed for health career and other science students. (F, Sp, Su)

BIOL 204 Microbiology Laboratory

Prerequisite: BIOL 203 2.0 minimum or Concurrently (previously MICR 203) Basic laboratory principles of microbiology for allied health students. Emphasis on microscopy, aseptic cultivation of microorganisms, differential staining, assays of antimicrobial agents, and diagnostic laboratory techniques. Students will identify unknown bacterial species and examine medically important parasites. (F, Sp. Su)

BIOL 210 Natural Resource Conservation

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4 This course examines the renewable natural resources and the policies which govern their use in the United States. Laboratory investigations include measurement techniques, land use evaluations, and environmental problem solving. These exercises will be oriented toward the completion of an environmental impact assessment covering a current local environmental situation. (F, Sp, Su)

BIOL 229 Nature Study for Educators

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4 Recommended: ISCI 122

A general biology course for educators and education majors on integrated understanding of the natural world, including the biotic and abiotic components comprising three typical mid-Michigan environmental communities: an aquatic, a forest, and a field community. (F)

BIOL 260 Botany

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: One semester of College-level Biology An introduction to the study of plants that includes structure and function, development, and ecology. Emphasis will be placed on the diversity, adaptations, and life cycles of major plant groups. Laboratory will complement the basic concepts with emphasis on physiology, systematics, and species of value to medicine and agriculture. (F)

BIOL 265 Zoology

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

Recommended: One semester of College-level Biology Topics include principles of taxonomy; early animal development; the diversity of animal body plans; and protozoan biology. Course deals principally with taxonomy. early development, and comparative anatomy of members within the animal phyla and classes. Groups are surveyed in a phylogenetic approach, (Sp)

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BIOL 270 Human Genetics

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 5 Recommended: BIOL 121 or Equivalent and Chemistry

Presents general principles of genetics with specific human application. Topics include Mendelian genetics, mitosis and meiosis, chromosome structure and aberrations, sex determination and x-linkage, molecular basis of inheritance, gene mutations, genetics of immune system, cancer genes, recombinant DNA technology, and genetic screening and counseling. (Sp)

Prerequisite: None Anyone who sells, greets, or provides services to customers can discover new

BDCS 210 Customer Relations

ways for creating good customer relations. By communicating effectively, understanding customer personalities and how to deal with them, and assessing their own motivation and esteem needs, participants can serve their customers in a positive manner. (F, Sp, Su)

BDCS 211 Advertising for Small Business

Prerequisite: None This seminar will teach how to plan, create, select, and evaluate advertising. Entrepreneurs can learn to develop an advertising plan that is unique to the special needs of their organizations. (F, Sp, Su)

BDCS 215 Developing a Marketing Plan .5

Prereguisite: None

This seminar familiarizes participants with marketing and provides an opportunity to write a marketing plan. Participants will learn to use a six-step process that involves obtaining data, developing the plan, and analyzing the results. (F, Sp, Su)

BDCS 225 Writing a Business Plan

Prerequisite: None

Participants can expect to become familiar with business planning and how to develop and maintain a business plan. Most creditors require a business plan before reviewing a loan application. Be prepared. Write your business plan with the information provided at this seminar. (F, Sp, Su)

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BDCS 230	Small Busine	SSIBXES

Prerequisite: None

Federal, state and local governments assess a variety of taxes on business. This seminar will identify the various taxes which pertain to small businesses in Michigan and provide information on the tax returns used and filing responsibilities of the business. (F, Sp, Su)

BIOL - Biology

BIOL 120 Environmental Science

Prerequisite: Reading Level 5 and Writing Level 6 Students will develop an ecological knowledge base to allow them to understand how human actions impact the environment. They will develop applied analytical

how human actions impact the environment. They will develop applied analytical skills through laboratories, fieldwork, simulations and a discussion of contemporary issues. They will investigate and evaluate basic ecological and environmental issues. (F, Sp. Su)

BIOL 121 Biol Foundation for Physiology

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

Recommended: CHEM 120 or High School Chemistry Topics include atomic structure, chemical bonding, organic molecules, biological molecules, enzymes, metabolism, cell structure and function, passage of materials across membranes, harvesting energy, mitosis, melosis, and the relationship between DNA, RNA, and protein synthesis. Designed for students preparing for health careers. Recommended prerequisite for BIOL 202. (F, Sp. Su)

BIOL 127 Cell Biology

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4 Recommended: CHEM 120 or CHEM 125 or High School Chemistry Lecture topics include chemistry of carbohydrates, lipids and proteins; structure and function of prokaryotic and eukaryotic cells; biochemistry of respiration and photosynthesis; and genetics and the regulation of gene expression. Laboratory stresses techniques of cell and motecular biology as well as genetics. (F, Sp, Su)

BIOL 128 Organismal Biology

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4 This course examines adaptations of organisms to changing environments. Major emphasis is on physiological adaptations, natural selection, ethology, and ecology. Aquatic systems are examined in the laboratory; sampling techniques and statistical methods are used to analyze a local river. (F, Sp, Su)

BIOL 145 Introductory Anat & Physiology

Prerequisite: Reading Level 5 and Writing Level 6

An introductory oourse in human anatomy and physiology which combines lecture and laboratory experiences to provide a basic understanding of the structure and function of body systems. Designed for vocational programs, that include emergency medical technicians, massage therapists, medical technicians, and medical transcriptionists, as well as for non-science majors. (F, Sp, Su)

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BIOL 275 Molecular Biology I

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Prerequisite: BIOL 127 2.0 minimum and CHEM 151 2.0 minimum and CHEM 161 2.0 minimum and Reading Level 5 and Writing Level 6 and Math 1 evel 4

introduces principles of molecular biology, DNA/RNA structure, function and replication. Polymerase Chain Reaction, and recombinant DNA technology. Laboratory emphasizes reagent preparation, culturing bacteria, isolating and purifying bacterial and plasmid DNA, restriction enzyme digests, and agarose gel electrophoresis analysis. Field trip to research laboratories. Designed for Laboratory Technicians. (F)

BIOL 276 Molecular Biology II

Prerequisite: BIOL 275 2.0 minimum and Reading Level 5 and Writing Level 6 and Math Level 4

Continuation of BIOL 275. Advanced lecture topics in bacteriophage biology, gene analysis, gene sequencing, and applications of molecular biotechnology. Gene cloning experiments with lambda bacteriophage and plasmid vectors, Southern hybridizations, and construction of a genomic library of lambda phage DNA. Designed for Laboratory Technicians. (Sb)

BIOL 285 Biology in the Tropics

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4 A field experience to study tropical ecosystems in Costa Rica. An eight week lecture series on tropical biology will culminate with a ten day visit to various ecosystems in Costa Rica. Individual writing projects emphasizing evolutionary and ecological concepts will be conducted in the field. (Sp)

BIOL 287 Tropical Aquatic Systems

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4

Recommended: College level biology or chemistry This course combines a classroom lecture series with a 10-day field study in

Puerto Rico. Students will study tropical aquatic systems including forested streams, tide pools, urban waterways, and coral reefs. Evaluation will be based on fecture tests, journals, and the development and completion of individual research projects. (F)

BLDR - Building Related

BLDR 110 Wood Projects

Prerequisite: None

Recommended: Previous Woodworking Experience

This class is designed to offer students a shop in which to work on individual woodworking projects. All of the tools and equipment in the shop are available for student use. The instruction demonstrates uses of tools/equipment and consults with students on their individual projects. (F, Sp)

BLDR 112 Wood Project	s Lab		1. je - 1.	.75
Prerequisite: None	1.1	1.1		

Recommended: Previous Woodworking Experience

This class is designed to offer students the opportunity to work on their own woodworking projects. The tools and equipment in the shop are available for student use. The instructor is available to help with the use of tools and to assist with their projects. (Su)

BLDR 144 Build Your Own Home

Prerequisite: None

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This course is designed for students who wish to build their own homes. Included are design considerations, land acquisition, selection of materials, choosing contractors, scheduling of work, financing, and landscaping. Guest speakers, who are experts in their various fields, provide the instruction. (F, Sp, Su)

 BLDT - Building Trades

 BLDT 100
 Introduction to Construction
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 Prerequisite: None
 This course covers basic concepts of construction; including city and regional

planning, managing, contracting, designing, engineering, estimating, bidding and inspecting; as well as the production work normally associated with construction. (F)

BLDT 101 Basic Woodworking

Prerequisite: None

Students learn about wood characteristics, hand and portable power tools, woodworking machinery, joint construction, fastening methods, woodworking techniques and procedures, and technical information to be applied to student-made projects. (F, Sp)

BLDT 103 Structural Blueprint Reading

Prerequisite: None

This course covers symbols, conventions and abbreviations used in structural blueprints. The student will be able to recognize conventions and verbally describe their interpretation in trade or lay terms according to standard architectural practices. Residential and commercial prints are used to show the relationship oetween working drawings and specifications. (F, Sp, Su)

BLDT 121 Residential Framing

Prerequisite: None

Students will learn to frame residential buildings using accepted framing techniques; such as framing member spacing, framing floor systems, interior and exterior walls, ceilings, roofs and stairs. Various types of foundations and the advantages and disadvantages of each are covered. Hands-on methods are used. (F, Sp)

BLDT 124 Remodeling, Shingling/Siding

Prerequisite: BLDT 121 1.0 minimum or Concurrently Students will learn to remodel, shingle and side a residential building. This course covers the analysis, designing, estimating, problem solving, building practices, materials and installation methods for remodeling, roofing and exterior wall cover-

BLDT 126 Interior Carpentry

Prerequisite: BLDT 121 1.0 minimum or Concurrently

Students will learn to finish the interior of a residential building. This course covers the materials, installation practices and material takeoff to do the finish carpentry for a house to include windows, doors, base, chair rail, wood floors, stairs, simple built-ins and cabinets. (F)

BLDT 132 General Home Maintenance

Prerequisite: None

ing projects. (Sp)

This is an introductory course in general home maintenance. Areas to be covered will include basic tools, electrical, plumbing, framing, roofing, interior trim, drywall and painting, appliance maintenance and repair, and concrete flatwork and block-laving. (F, Sp)

BLDT 262 Builder's Business License

Prerequisite: None

This course covers the principles of residential builder organizations and business practices, along with other useful information to help students pass the State of Michigan Builder's License Exam. Preparation for a residential project from planning to actual construction and sale of the project is covered. (Sp)

BLDT 277 Construction Cost Estimating

Prerequisite: (BLDT 103 1.0 minimum or ARCH 101 1.0 minimum) or Concurrently

Students will learn to do a structural material takeoff and a complete estimate for residential and light commercial buildings. The course uses standard estimating practices to estimate the cost of buildings based on detailed blueprints. (F, Sp)

BLDT 281 MI Residential & Bidg Codes

Prerequisite: None

Students will be introduced to the Michigan Residential Code and the Michigan Building Code. This course will emphasize the interpretation and application of the Michigan Residential Code and the Michigan Building Code. Requirements for materials, barrier-free design and fire standards for residential and commercial construction will also be emphasized. (F, Sp)

BLDT 285 Residential Building Intern

Prerequisite: BLDT 121 1.0 minimum and Department Approval

Restriction: Residential Building Majors

This course offers students the opportunity to work for a residential builder in an actual job situation. The students can gain experience working with tools used in the industry and applying what they learned in the classroom and laboratory. (F, Sp, Su)

BLDT 296 Ceramic Tile Seminar

Prerequisite: None

This seminar will teach the basic principles for installation of ceramic tile. This includes the selection of types of tile, how to lay out the tile, preparation of the surface, care of tools used, and estimation of labor and materials. (F, Sp)

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BLDT 298 Builder's License Review

Prerequisite: None

This is a two-day workshop designed to prepare individuals for the State of Michigan Residential Builder's Examination. This workshop will include concentrated instruction in blueprint reading, state regulations, building terms, basic math, and construction codes. (F, Sp, Su)

BUSN - Business

BUSN 118 Introduction to Business

Prerequisite: Reading Level 5

Introduces students to principles, problems, and practices related to the world of business. Topics covered include business management and organization, marketing, finance, economics, production, and international business. (F, Sp, Su)

BUSN 191 Independent Study/Business

Prerequisite: Department Approval

Students are allowed to undertake special research projects and/or individual readings to apply personal and professional experience to academic area of interets. Minimum of 16 hours work per credit required, plus completion of written project report. (F, Sp. Su)

BUSN 201 International Business

Prerequisite: None

Recommended: BUSN 118

Overview of international business: organizational, social, cultural, and economic variables that create change in the international marketplace. Includes exchange rates, resource allocation, import quotas and export controls, balance of payments, and free trade versus protectionism. (F, Sp, Su)

BUSN 250 Personal Finance

Prerequisite: None

Provides a broad survey of topics including budgeting, smart shopping, buying a car, renting, buying or selling a home, credit requirements; investing, insurance, and estate and retirement planning. Not intended to be a financial planning course, but students will develop a fundamental knowledge of financial concerns. (F, Sp)

BUSN 251 Stock Market Essentials

Prerequisite: None

Study of securities market to give framework with which to set investmant goals and achieve desired results. Introduction to some of the more prevalent theories, concepts, and skills to aid in developing strategies and making sound investment decisions related to the stock market. (F, Sp)

BUSN 254 Introduction to Investments 2

Prerequisite: None

This course covers the fundamental principles of investing and its role in our economy. Emphasis will be on developing terminology, types of investments, and personal financial planning such as mutual funds, real estate, CDs, money market funds, limited partnerships, insurance, IRAs, stock, and tax shelters. This is an overview course. (F. Sp)

BUSN 295 Small Business Management

Prerequisite: None

Small business operations, including business and managerial functions, principles of management, environment of small business, financial, marketing, production management, and legal and governmental relationships. Development of a small business plan is required. (F, Sp)

CABS - Computer Applications Using Business Software

CABS 100 Computer Related Seminars

Prerequisite: None

This series of seminars provides the successful participant with operational proficiency in using specific microcomputer software. The seminars also provide the students with some experience using commands; functions, and features of the software beyond the basic level. Extensive hands-on activity is the primary method used in learning. (F, Sp. Su)

CABS 101 Begin Keyboarding on Computer

Prerequisite: None

Recommended: Reading Level 5 and Writing Level 4 This course is designed for students having no previous typing experience. Basic keyboarding skills using the touch method are developed. Emphasis is on correct finger usage, developing speed and accuracy using the alphabetic keyboard, number and symbol keys. Basic speed level of 20-35 is developed. (F, Sp, Su)

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CABS 102 Microcomputers for Non-Majors

Prerequisite: None Surveys concepts and uses of software applications: word processors, spreadsheets, and database managers. Terminology, problem solving, and acquisition factors associated with personal computers are discussed. Hands-on computer use. (F, Sp, Su)

CABS 103 Internet Basics for Non-Majors

Prerequisite: None

Recommended: Windows Familiarity and Reading Level 3 and Writing Level 4 Designed to explore the potential uses of the Internet, students will complete hands-on, skill-based assignments and gain extensive experience utilizing Blackboard to access and turn in their course work. Students will develop literacy with Internet tools including e-mail, search engines, modifying and posting a web page template, and other applications. The course also discusses the rapidly changing world of the Internet including current software, trends, and societal issues. (F, Sp, Su)

CABS 104 Keyboarding Improvement

Prerequisite: None

Recommended: Previous Keyboarding and Reading Level 5 and Writing Level 4 This course is designed to develop speed and accuracy at the keyboard. Students need to know the alphabetic key locations prior to taking this class. A net speed of 25 words per minute on a three-minute timing is recommended. (F, Sp. Su)

CABS 106 Microsoft Windows Experience

Prerequisite: None

This course introduces students to basic features of the Microsoft Windows operating system. Topics include using the Windows Desktop, menus, toolbars, and manage files. It is designed for the novice computer user desiring Windows experience to prepare for MS Office courses, and for students planning to complete the Information Technology Job Readiness certificate. (F, Sp)

CABS 110 Intro to Microsoft Office

Prerequisite: None

Recommended: Windows and Keyboard Experience and Reading Level 5 This course provides an introduction to MS Office. It is designed to develop basic operational proficiency while using MS Office (MS Word, MS Excel, MS Access, and MS PowerPoint). Students learn how to use word processing, spreadsheet, database, and presentation software. Topics include creating letters, memos, simple spreadsheets, database structures, and desktop presentations. (F, Sp. Su)

CABS 119 Microsoft Word

Prerequisite: None

Recommended: Windows and Keyboard Experience and Reading Level 5 and Writing Level 6

This course is designed to provide the person new to the Word for Windows program with the ability to perform the most common word processing functions. The course also covers less frequently used features, such as creating tables and outlines. This course includes the exam that leads to Microsoft Office Specialist Word Core certification. (F, Sp, Su)

CABS 126 Excel

Prerequisite: Reading Level 5

Recommended: Windows and Keyboard Experience

Beginner-level training in the creating of spreadsheets and databases using the Microsoft Excel program. The instruction includes the manipulation and generation of reports, tables, and graphs. Also included is instruction in file handling, disk management, and macro creation and use. This coursa includes the exam that leads to Microsoft Office Specialist Excel Core certification. (F, Sp. Su)

CABS 129 Excel-Advanced

Prerequisite: CABS 126 2.0 minimum

Advanced-level training in the creating of spreadsheets and databases using the Microsoft Excel program. The instruction includes the manipulation and generation of reports, tables, and graphs. This course includes the exam that leads to Microsoft Specialist Excel Expert certification. (F, Sp, Su)

CABS 133 Microsoft Access Database

Prerequisite: None

Recommended: Windows and Keyboard Experience and Reading Level 5 This course provides introductory through intermediate level training in the creation of database management systems using Microsoft Access. Instruction includes an introduction to Microsoft Access, database creation and maintenance, database querying, the generation of custom forms and reports, and integration of, access with other programs. This course includes the exam that leads to Microsoft Office Specialist Access Core certification. (F, Sp, Su)

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CABS 179 Microsoft Outlook

Prerequisite: None

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Recommended: Windows and Keyboard Experience and Reading Level 5 Students will learn to use Outlook to manage typical business office communication needs. The course includes setting up the Outlook desktop information system, creating contacts, managing calendars and scheduling appointments. Students will also configure tasks, record journal entries and notes, organize and archive data, integrate Outlook with other Office applications. This course includes the exam that leads to Microsoft Office Specialist Outlook certification. (F, Sp)

CABS 180 Desktop Publishing Pagemaker

Prerequisite: None

Recommended: Windows and Keyboard Experience and Reading Level 5 This course provides experience in producing documents with text and graphics using the desktop publishing program PageMaker. Good design of documents is emphasized in addition to the mechanics of producing the document. The basics of publishing are also discussed. Documents produced include reports, flyers, and newsletters. (F, Sp, Su)

CABS 182 Microsoft PowerPoint

Prerequisite: None

Recommended: Windows and Keyboard Experience and Reading Level 5. This course introduces students to the basic features of Microsoft PowerPoint. Major topics include creating presentations with AutoLayouts and Design Templates, using embedding objects and animation effects to enhance a presentation. Students will create interactive presentations with links to other applications and also learn how to share presentations with others on the World Wide Web. This course includes the exam that leads to Microsoft Office Specialist PowerPoint Compredensive certification. (F, Sp, Su)

CABS 195 Microsoft Windows

Prerequisite: None

Recommended: Reading Level 5

This course is designed to provide students with a broad base of knowledge that is necessary for enhancing PC productivity through the efficient and effective utilization of Microsoft Windows for file, application, and system, use and management. It serves as an excellent introductory course or comprehensive course that fills in the gaps for intermediate users of the operating system. Topics include the use of Windows Interface Objects, Utilities, Help features, Multimedia features, Internet features, closely related applications, and Applets (Windows XP). (F, Sp, Su)

CABS 205 Using Project Mgmt Software 2

Prerequisite: None

Recommended: Windows Familiarity and Reading Level 5

Students will learn project management skills utilizing Windows-based project management software. Students work through all phases of setting up a project using one case study that runs through the entire course. (F, Sp)

CABS 210 Advanced Microsoft Office

Prerequisite: CABS 110 2.0 minimum

A sequel to CABS 110, this course provides advanced instruction in Microsoft Office Professional. Designed to develop advanced skills using MS Word, MS Excel, MS Access, and MS PowerPoint. This class uses extensive hands-on activity. (F, Sp)

CABS 219 Advanced Microsoft Word

Prerequisite: Reading Level 5 and Writing Level 6 Recommended: CABS 119

Advanced-level training in word processing using the Microsoft Word program. The instruction includes footnotes, tables, using and defining styles, using graphics, creating forms, and advanced font and text formatting. This course includes the exam that leads to Microsoft Office Specialist Word Expert certification. (F, Sp, Su)

CABS 232 Advanced Microsoft Access

Prerequisite: CABS 133 2.0 minimum and Reading Level 5

Recommended: CABS 195 or Equivalent

This course provides advanced level training in the creation of database management systems using Microsoft Access. Instruction includes working with webenabled information, advanced custom reports and forms, advanced queries, advanced relationships, macros, switchboards, and introductions to the use of SQL and Visual Basic for Applications Code within Access. (F, Sp)

CABS 234 Programming Microsoft Access

Prerequisite: CABS 232 2.0 minimum and (CISB 114 2.0 minimum or CISB 119 2.0 minimum)

Advanced-level database management for the Access user who already has a knowledge of databases and the basic objects of an Access database such as tables, gueries, forms and reports, but now wants to learn how to program with Visual Basic for Applications to endow application with a professional and intelligent interface. This course is designed for advanced users of Microsoft Access that are interested in using Visual Basic for Applications to program intelligent visual interface objects and automate database processes. (F, Sp)

CADD - Computer-Aided Dratting and Design

CADD 100 Basic Mechanical Drafting

Prerequisite: None

This course teaches the fundamental concepts of drafting and design using sketches and manual drafting skills. The student will learn the basics of orthographic projection, lettering, sketching, dimensioning techniques, and much more. (F, Sp, Su)

CADD 101 Mechanical Drafting/Basic CAD

Prerequisite: (CADD 100 2.5 minimum or DTDS 100 2.5 minimum or Drafting Placement Test 80%) and Reading Level 3 and Writing Level 2 and Math Level 4

This is an introductory course in mechanical drafting and CAD concepts. Instruction includes orthographic projection, auxiliary views, sections, dimensioning techniques, computer hardware setup, Windows NT, file management, printing, and secondary auxillary view projections. Students will complete a series of drawings to demonstrate understanding of the concepts presented. (F, Sp, Su)

CADD 102 Advanced Mechanical Drafting

Prerequisite: CADD 101 2.5 minimum or (DTDS 101 2.5 minimum and DTDS 131 2.5 minimum)

This course covers advanced drafting and design techniques needed to project successive auxiliary views from various orthographic views. Layout and design concepts will also be stressed. Students will complete practical design projects in problem solving and creativity applicable to the automotive, industrial, and/or aero-space industries. (F, Sp, Su)

CADD 103 Geometric Dimension/Tolerance

Prerequisite: CADD 100 2.5 minimum or DTDS 100 2.5 minimum or Drafting Placement Test 80%

This course covers the principles and methods of dimensioning and tolerancing for specific design requirements on engineering drawings. Uniform practices for stating and interpreting these requirements will be stressed. Content includes use and understanding of the symbolic method of specification relating to tolerances being applied using ASME/ANSI M14.5Y 1994 standards. (F, Sp)

CADD 104 Descriptive Geometry

Prerequisite: CADD 101 2.5 minimum or DTDS 101 2.5 minimum This course covers the solution of space problems through the practice of advanced orthographic projection. Content includes points, lines and planes, parallelism, perpendicularity, developments, and intersections. Students will complete projects relating to architectural, civil, and industrial engineering situations. (F, Sp)

CADD 110 Industrial Blueprint Reading

Prerequisite: None

This course covers basic concepts in orthographic projection, with emphasis on interpretation of engineering drawings. Areas also covered include measurement systems, technical sketching, dimensioning, sectional and auxiliary views, and tolerancing. (F, Sp)

CADD 131 AutoCAD Basic 2-D

Prerequisite: CADD 101 2.5 minimum or DTDS 100 2.5 minimum This course gives an introduction to AutoCAD software. Creation of 2-D multiview mechanical drawings with dimensions and notes will be the main focus. Use of AutoCAD's layer, block, plot commands, and isometric views will also be covered in this course. (F, Sp, Su)

CADD 232 AutoCAD Advanced 3-D

Prerequisite: CADD 131 2.5 minimum or DTDS 131 2.5 minimum This course builds on the material covered in CADD 131. The student will focus on advanced AutoCAD commands and features, including tools for 3-D drafting and design, 3-D design visualization and program customization. Topics covered include constructing 3-D wireframe and surface modeling, solid modeling, customized toolbars, system variables, and much more: (F, Sp)

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CADD 233 Autodesk Mechanical Desktop

Prerequisite: CADD 131 2.5 minimum or DTDS 131 2.5 minimum This course teaches the student how to generate 3-D parametric models, produce 2-D views and assemble parts while focusing on Autodesk Mechanical Desktop's designer and assembly modules. (F, Sp)

CADD 234 Autodesk Inventor

Prerequisite: CADD 131 2.5 minimum or DTDS 131 2.5 minimum

Upon successful completion of this course the student will be able to create part and assembly models and document those designs with drawing views. Students will use Autodesk Inventor to create features used to create, edit, document, and print parts and assemblies. The student will also learn how to make use of Inventor's Design Support System (DSS) to find solutions to design problems. (F, So)

CADD 242 Unigraphics Basic

Prerequisite: CADD 131 2.5 minimum or DTDS 131 2.5 minimum or DTDS 180 2.5 minimum

This is the first of a two-semester course sequence that covers the fundamentals of the Unigraphics System of interactive design. This course covers Comprehensive CAD concepts of 2-D and 3-D construction and basic solid modeling, as well as some of the concepts of drafting. Prior CAD system experience is required. (F, Sp)

CADD 243 Unigraphics Advanced

Prerequisite: (CADD 103 2.5 minimum or DTDS 103 2.5 minimum) and (CADD 242 2.5 minimum or DTDS 181 2.5 minimum)

This is the second of a two-semester course sequence that covers the design and construction of sophisticated solid models of complex assemblies and components, and the production of dimensioned and toleranced engineering drawings of those components. Advanced concepts of Unigraphics modeling will be discussed and utilized in class projects. (F, Sp)

CADD 252 I-DEAS Parts Modeling

Prerequisite: CADD 131 2.5 minimum or DTDS 131 2.0 minimum This course teaches the student I-DEAS Master Series CAD software emphasizing important concepts of feature-based parametric solid modeling. Students will construct and edit 3-D parts, use drafting and solid modeling features, create sketches and primitives, use feature relationships, use reference geometry, use a 3-D and solid model library of parts, and construct complete 2-D drawings. (F, Sp. Su)

CADD 253 I-DEAS Assembly Modeling

Prerequisite: CADD 252 2.5 minimum or DTDS 155 2.5 minimum

Students will learn how to use I-DEAS Master Series Assembly CAD software to create, edit, and constrain feature-based assembly models. Students will then be able to create assembly layout drawings from their solid models. (F, Sp, Su)

CADD 282 Die Design and Construction

Prerequisite: (CADD 131 2.5 minimum or DTDS 131 2.5 minimum) or (CADD 242 2.5 minimum or DTDS 181 2.5 minimum)

This course will emphasize the proper steps to designing a die, the ability to read sheet metal die design layouts, tolerancing and clearance fits as they apply to this area of learning. Also covered will be the names of various die components and students will be expected to understand and explain their workings. (F, Sp)

CADD 284 Jigs and Fixture Design

Prerequisite: (CADD 131 2.5 minimum or DTDS 131 2.5 minimum) or (CADD 242 2.5 minimum or DTDS 181 2.5 minimum)

Detailing techniques and dimensioning will be emphasized through the development of working drawings. These drawings will be extracted from a design concept or assembly type drawing. Familiarization with standard components will also be stressed. Students will be responsible for being familiar with and understanding various jig and fixture components. (F, Sp)

1-4 CADD 290 Mechanical Drafting Lab

Prereguisite: Department Approval This course is intended to give the advanced drafting and design student an opportunity for more manual drafting experience through mutual agreement between student and instructor. Students will complete advanced projects and research in a variety of design application situations. (F, Sp)

CADD 295 CADD Project Lab 1-4

Prerequisite: Department Approval This course is intended to give advanced drafting and design students an opportunity, through mutual agreement between student and instructor, to complete project(s) on one of several available CAD systems. (F, Sp)

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CHCE Continuing Health Careers

CHCE 100 Nurse Refresher

Prerequisite: Department Approval

This course is a refresher for licensed RNs or LPNs within the State of Michigan who desire to re-enter their professional workforce. This course provides nurses with updates in nursing theory and practice parameters; pharmaceutical, medical, and surgical interventions; new technology in health care/clinical experience; OSHA Blood Borne Pathogen and Universal Precaution; American Heart Association CPR; and critical thinking skills. (F, Sp)

CHCE 106 Cardiac Dysrhythmia Interpreta

Prerequisite: None

This course introduces the student to identification of common dysrhythmias seen on a monitor or telemetry unit. Content will include criteria, causes, hemodynamic effects, and treatment of dysrhythmias according to ACLS guidelines. Use of monitoring equipment is integrated within the course content. (F, Sp, Su)

CHCE 114 Phys Asses Skill fr Nrs Prctic

Prerequisite: None

This course is designed for nurses in any area of practice. Emphasis is on techniques of physical examination: inspection, palpation, percussion, and auscultation. History taking and interpretation of physical findings are stressed. All major body systems are studied. Live models are used in supervised practice sessions. All equipment supplied. (F, Sp, Su)

CHCE 115 Physical Assessment Refresher

Prerequisite: None

This seminar is designed for students who have already had formal training in physical examination skills. Course content is designed to help students recall important signs of pathology and normal physical findings. There is also ample opportunity, through supervised practice sessions, to improve specific techniques. of physical examination. (F, Sp, Su)

CHCE 185 Lab Tests for Nurses

Prerequisite: None

A seminar for nurses and other health care personnel. Seminar content focuses on the systematic disease processes of specific lab tests, interpretation of test values, and application to practice. Mock lab reports and case study situations are used. (F. Sp)

CHCE 210 PALS Training

Prerequisite: Department Approval

This seminar is designed for members of the health care team who work with pediatric patients. A combination of lecture and practice in skills stations will prepare the student for success in achieving American Heart Association certification as a Pediatric Advanced Life Support Provider. Prior assigned reading mandatory. Participants must have a current provider card for CPR. (F, Sp, Su)

CHCE 211 PALS Refresher

Prerequisite: Department Approval

This seminar is designed to recertify, according to the American Heart Association (AHA) standards, those professionals currently possessing valid Pediatric Advanced Life Support (PALS) and current CPR provider certification cards. Upon successful recertification, the AHA will issue each student a new PALS certification card. Prior assigned reading mandatory. (F, Sp)

CHCE 215 Massage Therapy Seminars

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Prerequisite: None

This course provides continuing education seminars for health professionals such as massage therapists and bodyworkers. Specific up-to-date content will vary with each seminar and will be related to massage and/or bodywork techniques. (F, Sp, Su)

CHCE 225 Surg Tech & OR Seminars

Prerequisite: None

This course provides continuing education seminars for health professionals such as surgical technologists and operating room nurses. Specific up-to-date course content will vary with each seminar and will be related to the surgical team, surgical procedures, or surgical instrumentation. (F, Sp, Su)

CHCE 227 Health Related Seminars

Prereguisite: None

Seminar content is dependent upon course requirement. (F. Sp, Su)

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CHCE 230 ACLS Training Seminar

Prereguisite: Department Approval

This seminar is designed for members of the health care team to develop knowledge and skills in Advanced Cardiac Life Support (ACLS), A combination of lecture and skills performance will prepare the student to achieve success in American Heart Association certification as an ACLS provider. Prior assigned reading mandatory. Participants must have a current provider card for CPR (F, Sp, Su)

CHCE 235 ACLS Refresher

Prerequisite: Department Approval

This seminar is designed to recertify, according to the American Heart Association standards, those individuals currently possessing valid Advanced Cardiac Life Support (ACLS) and current CPR provider cards. The American Heart Association will issue a certificate to each student upon successful completion of the program. Prior assigned readings are mandatory. (F, Sp, Su)

CHCE 299 ACLS Instructor Seminar

Prerequisite: None

This course will train those health care professionals who are currently certified in Advanced Cardiac Life Support (ACLS), according to American Heart Association standards, as ACLS instructors. All participants are expected to recertify thair ACLS skills at the time of the course. Prior assigned readings are mandatory. (F, Sp, Su)

CHDV - Child Development

CHDV 101 Child Growth/Devel: 0-5 Years

Prerequisite: Reading Level 5 and Writing Level 4

This course examines the growth and development patterns of children (prenatal to five years) in physical, social, emotional, cognitive, and language development. Additional topics include nutrition, health, play, families, and the preschool experience. Students acquire skills in observing, recording, and interpreting child behavior. CDA: developmental context; functional area: healthy. (F, Sp, Su)

CHDV 111 Child Guidance/Communication

Prerequisite: Reading Level 3 and Writing Level 4

This course, which includes field work, examines interaction skills and environmental structures which foster social and emotional growth in children. Topics include positive guidance and discipline, effective communication with children, problem solving, social skill development, group management, and aggression prevention. CDA functional areas: learning environment, self; social, guidance, communication, professionalism, (F, Sp)

CHDV 112 Family Relationship/Child Care

Prereguisite: CHDV 111 2.5 minimum

This course examines ways to establish and maintain positive and supportive relationships with families in child care programs. The focus includes understanding the parent's perspective, supporting the child's relationship with his or her family, encouraging parental involvement, and communicating with parents. CDA functional area: families. (F, Sp)

CHDV 113 Health/Safety Issue:Child Care

Prereguisite: None

This course examines health and safety issues in child care homes and centers. Topics include understanding and preventing communicable illnesses, bloodborne pathogens, sate equipment and play areas, preventing accidents, nutrition, and health and safety education. It addresses the CDA competencies of safe and healthy. (F, Sp)

CHDV 120 Curriculum: Physical Dev

Prerequisite: None

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This course examines curriculum and activities which enhance the development of physical and motor skills of children in early childhood programs. It includes specific information on developmentally appropriate activities for fine motor, gross motor, and sensory development for a variety of ages. CDA functional area: physical. Uses seminar format. (F)

CHDV 121 Curriculum: Cognitive/Lang

Prereguisite: None

This course examines curriculum and activities which enhance cognitive and language development of children in early childhood programs. Students explore classroom materials to develop effective teaching techniques. CDA functional areas: cognitive and communication, Uses seminar format, (Su)

CHDV 122 Curriculum: Creative Dev

Prerequisite: None

This course examines curriculum and activities which enhance the creative development of children in early childhood programs. Specific information on activities in the areas of art, music; creative, and dramatic play with a variety of materials are shared. Uses seminar format. (Sp)

CHDV 123 Curriculum:Early Chid Literacy

Prerequisite: None

This course examines curriculum and activities which enhance the development of literacy in early childhood programs. The focus is on designing and implementing developmentally appropriate strategies, environments and activities that promote the acquisition of basic concepts about literacy and its functions for children five years of age and under. Topics include: oral language, emergent reading, emergent writing, classroom arrangement. (F, Su)

CHDV 124 Curriculum:Early Math Developmt

Prerequisite: None

Recommended: Experience in Early Childhood Education and Care This course examines curriculum and activities, which enhance the interest in, and

development of, math skills, concepts and awareness in early childhood programs. The focus is on designing and implementing developmentally appropriate strategles, environments, and activities that promote the acquisition of basic concepts about math to include number, measurement, shape, data and analysis, problem solving, and patterns. Seminar format is used. (Sp)

CHDV 130 Introduction to Child Care

Prerequisite: None

This course introduces factors in providing quality child care. Topics include program planning; curriculum development; child growth and development; positive guidance and discipline skills; safety, health and nutrition; parent communication and involvement; and professionalism. CDA functional area: learning environment, program management, and professionalism. (Sp)

CHDV 131 Family Child Care Management

Prereguisite: None

This course presents a systematic approach to managing a family child care home and creating a positive learning environment for young children in a home setting. Topics include business aspects, program development, professionalism, managing personnel, and organizing the environment. CDA functional areas; learning environment, program management, professionalism. (F)

CHDV 181 Adult Communication/Child Care

Prerequisite: None

Recommended: Experience in Early Childhood Program This course examines effective adult-adult communication (both staff-staff and staff-parent) in early childhood and care programs. Topics include personal communication style, challenging situations, and effective strategies to improve com-

munication, problem-solving and team building. Seminar format is used. (Sp)

CHDV 184 Children and Stress

Prerequisite: None

This course examines stress as it relates to children. Specific topics include symptoms and causes of stress, situations which are stressful for children, ways to help children cope with stress, and techniques for reducing stress. Specific information on divorce, death, family violence, and hospitalization are discussed. Seminar format is used. (Sp, Su)

CHDV 185 Preventing Child Sexual Abuse

Prerequisite: None

This course explores preventing child sexual abuse through teaching personal safety to children. Topics include the sexually abusive situation, behavioral indicators, appropriate adult responses, legal mandates, and reporting protocol. It emphasizes appropriate ways of teaching personal safety to children, selecting personal safety materials, and adult concerns when teaching it. Seminar format is used. (F)

CHDV 186 Child Self-Esteem/Pos Discipl

Prerequisite: None

This course looks at children's self-esteem: what it is, where it comes from, and how it can be fostered in both homes and child care. It focuses on practical suggestions and teaches positive discipline techniques that build self-esteern. CDA functional area: self, guidance. Seminar format is used. (F, Sp, Su)

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CHDV 188 Caring/Children/Special Needs

Prerequisite: None

This course focuses on the special and diverse individual needs of children and their families, including handicapping conditions in various settings. It addresses identification of children with disabilities or in "at-risk" categories; community services; inclusion in least restrictive environments; family-centered intervention; and communication skills which enhance work with children with special needs and their families in various settings. (Sp)

CHDV 189 Help Children Value Diversity 1

Prerequisite: None

This course explores how early childhood and care programs can promote diversity and encourage tolerance through embracing similarities and differences. Topics include identity formation, bias, cultural awareness and integrating diversity into the classroom and curriculum. Seminar format is used. (F. Su)

CHDV 190 Child Care Seminars .25-1 Prerequisite: None

This course provides a variety of topics of special interest to child care providers. (F. Sp)

CHDV 197 Child Developmet Special Topics 1 Prerequisite: None

This course explores recently identified current issues, knowledge, skills and/or attitudes in the field of early childhood education and care. (F, Sp)

CHDV 198 Child Development Special Topics 2

Prerequisite: None This course explores recently identified current issues, knowledge, skills and/or attitudes in the field of early childhood education and care. (F, Sp)

CHDV 220 Preschool Curric/Learning Env 4

Prerequisite: CHDV 101 2.0 minimum and CHDV 111 2.5 minimum

This course, with field work, explores developmentally appropriate preschool programming which promotes physical, cognitive, language, and creative development. Emphasis is on active involvement of children in concrete experiences. Other topics include learning environments, materials and equipment, and learning objectives. CDA functional areas: learning environment; creative, physical, cognitive, communication, and orogram management. (F, Sp)

CHDV 221 Infant-Toddler Program Dev

Prerequisite: CHDV 101 2.0 minimum or Concurrently

This course, which includes field work, explores physical and emotional environments needed for quality child care for infants and toddlers. Focus includes developing nurturing skills, developmentally appropriate activities and materials, managing schedules and routines, observation, and record keeping skills. CDA functional areas: safe, healthy, learning environment; physical, cognitive, communication; program management. (F, Su)

CHDV 222 School-Age Child Care Prog Dev

Prerequisite: None

This course examines the development of child care programs to meet the developmental characteristics of school-aged children (age 5-12). Content includes growth and development patterns in the areas of physical, cognitive, social and emotional; appropriate equipment and activities; environment and program structure; and individual and group management. (F, Sp, Su)

CHDV 230 Early Childhood Center Admin

Prereguisite: CHDV 220 2.5 minimum

program management, professionalism. (Sp)

This course examines the administrator's role in directing an early childhood center and in providing a systematic approach to program management. Topics include goal-setting, safety, licensing, health and nutrition, policy development, business techniques, and personnel management. CDA functional areas: safe,

CHDV 251 CDA Credentialing Preparation

Prerequisite: CHDV 111 2:5 minimum and (CHDV 220 2.5 minimum or CHDV 221 2.0 minimum) and Department Approval

Recommended: Employed or volunteer 8+ hrs/week in approved regulated child care program

This course, and accompanying field work, examines credentialing procedures and competency standards for the Child Development Associate (CDA) Credentialing Assessment. Students complete the resource file, are observed using the CDA observation instrument, and prepare for the CDA situational assessment. Content of the course covers the functional area of families and professionalism. (F, Sp)

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CHDV 252 CDA Completion

Prerequisite: CHDV 112 2.0 minimum and CHDV 220 2.5 minimum and (CHDV 284 2.0 minimum or Concurrently) and Department Approval

This course is designed for associate degree candidates and allows them to complete the CDA assessment readiness requirements as part of the associate degree practicum. Resource file development, statements of competence, advisor observation, and assessment procedures are included. Taken concurrently with CHDV 284. (Sp)

CHDV 284 Child Development Practicum

Prerequisite: CHDV 220 2.5 minimum and Reading Level 5 and Writing Level 6 and Department Approval

A supervised field experience working directly with children in a child care program. Students gain skill in planning and implementing the daily children's program, and in setting and assessing goals for individual children and the classroom. Accompanying seminar explores the teacher's professional role in planning, goalsetting, and evaluation. (Sp)

CHDV 297 Child Development Indep Study

Prerequisite: Department Approval This course includes special research, directed study, or service-learning projects

in child development. It requires at least 16 hours of independent work for each credit. A learning contract specifying objectives, activities, and outcomes is required. (F, Sp, Su)

CHEM - Chemistry

CHEM 120 Gen Organic & Biological Chem

Prerequisite: Reading Level 5 and Writing Level 4 and Math Level 4 Introduces topics in general, organic, and biological chemistry that are used in health-related occupations. Included are scientific measurement, atomic structure and bonding, chemical equations and stoichlometry, solutions, acids, bases, buffers, gas behavior, nuclear radiation, organic functional groups, and the biologically important compounds: carbohydrates, lipids, and proteins. (F, Sp)

CHEM 125 Basic Chemistry

Prerequisite: Reading Level 5 and Writing Level 4 and (Math Level 5 or MATH 107 Concurrently)

Intended for students who have not had high school chemistry or who require a refresher course. Measurement, problem solving, chemical formulas, chemical equations, stoichiometry, atomic structure, chemical bonding, gas laws, solutions, and acids and bases are emphasized. (F, Sp, Su)

CHEM 130 Biochemistry

Prerequisite: Reading Level 5 and Writing Level 4

Recommended: CHEM 120 or CHEM 125 2.0 minimum

This course is designed to provide an understanding of the chemistry of life processes. Topics include organic functional groups, enzymes, carbohydrates, lipids, proteins, metabolic pathways, nucleic acids, biochemical genetics, blood and respiratory chemistry, urine, electrolytes, acio-base balance, and hormones. (Sp. Su)

CHEM 135 Chemistry in Society

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4 A general education course which presents chemisity to non-science majors who must function and make decisions in a society shaped by science and technology. Chemistry knowledge is introduced and applied on a need-to-know basis with

respect to issues in society that have significant chemistry components. (F, Sp) $_{\rm \circ}$

CHEM 151 General Chemistry Lecture I

Prerequisite: Reading Level 5 and Writing Level 6 and (Math Level 6 or MATH 112 Concurrently)

Recommended: (CHEM 125 2.0 minimum or High School Chemistry) and CHEM 161 Concurrently

The first of two semester courses designed to provide an in-depth introduction to general chemistry for students who plan careers in the health professions, physical sciences, biological sciences, or engineering. Topics discussed include measurement, aqueous reactions, stoichiometry, thermochemistry, atomic structure, bonding, and acids and bases. (F, Sp, Su)

CHEM 152 General Chemistry Lecture II

Prerequisite: CHEM 151 2.0 minimum and Reading Level 5 and (Math Level 8 or MATH 121 Concurrently)

The second of two semester courses designed to provide an in-depth introduction to general chemistry for students who plan careers in the health professions, sciences, or engineering. Topics include kinetics, ionic equilibria, thermodynamics, electrochemistry, descriptive chemistry, and nuclear chemistry. (F, Sp, Su)

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CHEM 161 General Chemistry Lab I

Prerequisite: CHEM 151 2.0 minimum or Concurrently and Reading Level 5 and Writing Level 6 and Math Level 5

Laboratory course designed to complement CHEM 151. Stresses basic laboratory techniques, writing lab reports, and critical thinking exercises. Topics include density determination, synthesis, empirical formulas, molecular geometry, gas laws, pH and water hardness. (F, Sp, Su)

CHEM 162 General Chemistry Lab II

Prerequisite: CHEM 152 2.0 minimum or Concurrently and CHEM 161 2.0 minimum CHEM 162 is the second semester general chemistry laboratory course. The main focus of the course is inorganic synthesis and analysis. (F, Sp, Su)

CHEM 182 Introductory Organic Chemistry

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: CHEM 151 2.0 minimum

A survey of the principles of organic chemistry. Introduces the student to structure, nomenclature, chemical and physical properties, selected characteristics, preparations and reactions of the most common classes of organic compounds. Other topics include polymers, optical isomerism, and selected reaction mechanisms. (Sp)

CHEM 192 Intro Organic Chemistry Lab

Prerequisite: CHEM 182 2.0 minimum or Concurrently and Reading Level 5 and Writing Level 6

Recommended: CHEM 151 2.0 minimum

Designed for students in majors such as chemical processing, packaging, agriculture, and forestry who require only one credit of organic lab. It gives students an introduction to common techniques, equipment, and chemicals found in an organic laboratory. Particular attention is given to compounds studied in CHEM 182. (Sp)

CHEM 211 Chemical Process Technology I

Prerequisite: CHEM 151 2.0 minimum and Reading Level 5 and Math Level 6 This course provides an overview of Chemical Process Technology. Topics include the roles and responsibilities of Chemical Process Technology, the equipment and systems that they operate, and relevant safety and environmental issues. The student will apply previously learned scientific principles, to the field of Chemical Process Technology. (Sp)

CHEM 251 Organic Chemistry Lecture I

Prerequisite: Reading Level 5

Recommended: CHEM 152 2.0 minimum

The first lecture course of a two-semester sequence in organic chemistry for chemical engineering, chemical technology, chemistry, or preprofessional majors. Topics include structure and bonding, hybridization, nomenclature, stereochemistry, thermodynamics and kinetics of organic reactions, functional groups including reactions and mechanisms, and applications of mass spectrometry. (F, Sp)

CHEM 252 Organic Chemistry Lecture II

Prerequisite: CHEM 251 2.0 minimum

Continuation of CHEM 251. Topics include aromatic compounds, spectroscopy, organometallic compounds, aldehydes and ketones, carboxylic acids and their derivatives, amines, enolates, phenols, carbohydrates, polymers, and proteins. (Sp, Su)

CHEM 262 Quantitative Analysis

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Prerequisite: CHEM 152 2.0 minimum and CHEM 162 2.0 minimum

This course covers the theory and procedures of classical analytical techniques, including gravimetric analysis and titrimetric methods. Use of instruments such as spectrophotometers, pH meters, and others is also included. Designed for laboratory technician preparation and for Chemical Process or transfer students. (F)

CHEM 272 Organic Chemistry Laboratory

Prerequisite: CHEM 251 2.0 minimum

Fecommended: CHEM 252 Concurrently

Designed for students (in majors such as chemistry, pre-med, and pre-pharmacy) who require more than one credit of organic lab. It gives students experience with the chemicals, techniques, and equipment commonly employed in organic laboratories. Particular attention is given to compounds studied in CHEM 251 and 252. (F, Sp)

CHSE - Community Health Services

CHSE 100 Intro to Health Professions

Prerequisite: Reading Level 5

This course is an overview of the health care industry, including medical ethics, trends in health care, and exploration of career options. It includes introduction to medical terminology, anatomy and physiology, vital signs measurement, math used for conversions, basic cardiac life support skills, and universal precautions / blood borne pathogen training. (F, Sp)

CHSE 101 Acute Care Nurse Assis/Orderly

Prerequisite: Reading Level 3

This course will prepare an individual for employment as a nursing assistant/orderly in a hospital, or other acuté care delivery setting. The course will provide the knowledge and skills needed in order to provide safe basic patient care. This course does not qualify students to take state exam for nurse aide. (F, Sp, Su)

CHSE 108 Long-term Care Nurse Aide

Prerequisite: Reading Level 3

This course will prepare an individual to be a nurse aide in a long-term care facility or home health care agency. This state-approved course will provide specific knowledge and skills required for a nurse aide to safely function in a long-term care setting. Upon completion of this course, the student is qualified to take the State Competency Evaluation Nurse Aide Examination. (F, Sp, Su)

CHSE 110 Nurse Aide: Acute & Long-Term

Prerequisite: Reading Level 3

This course will prepare individuals to be nurse assistants in an acute care setting, long-term care facility, or home health care agency. Course will provide specific knowledge and skills required to deliver safe basic care, and to become a Certified Nurse Assistant (CNA), upon passing of State examination. (F, Sp, Su)

CHSE 114 Introduction to Pathology

Prerequisite: BIOL 145 2.5 minimum

General principles of pathology are discussed, rather than specific disease entities, to develop a new way of thinking about disease processes. Concepts of disease processes and their effect on normal structure and function of the body are emphasized. (F, Sp)

CHSE 115 Pharmacology-Allied Health

Preregulaite: BIOL 145 2.5 minimum or Concurrently

This course is designed to familiarize the student with common medications, encountered in health care occupations. Emphasis is on drug categories and the responsibilities associated with medication administration. (F, Sp, Su)

CHSE 116 EKG for Health Care Providers

Prereguisite: None

Recommended: Health Careers Applicant or Professional This course is designed to teach the basic skills of electrocardiography necessary to perform, process, and explain the electrocardiogram. An overview of anatomy and physiology of the cardiovascular system, operation of the electrocardiograph and recording EKGs, cardiac pathology, and basic cardiac rhythm recognition will be presented. (F, Sp)

CHSE 117 Health Law and Ethics

Prerequisite: None

Recommended: Health Careers Applicant or Professional

This course presents for discussion legal and ethical issues arising from the organization and delivery of health care services. Topics include contracts, torts, business law; medical recordkeeping and retention; physicians' public duties; licensure, certification and regulation of health professionals; consent for treatment; and exploration of issues arising from various bioethical topics. (F, Sp)

CHSE 118 Herbology in Health Careers

Prerequisite: Reading Level 5 and Writing Level 4

Recommended: Health Careers Student or Professional

Principles of herbology are discussed along with an overview of Western and Eastern herbal traditions. Pronounciation of names for both Western herbs and herbs used in traditional Chinese medicine is emphasized. Concepts of health, disease and treatment from Western versus Eastern medical perspectives are discussed with emphasis on herbal interactions with drugs and the use of herbal alternatives to drug therapies. (F, Sp)

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CHSE 119 Community Health Career Topics .25-8 Prerequisite: None

This course offers students the opportunity to learn new community health career skills and knowledge. Specific up-to-date content will vary with each seminar and will be related to the community health careers. (F, Sp, Su)

CHSE 120 Medical Terminology

Prerequisite: Reading Level 5 and Writing Level 4

Medical Terminology will provide a basic knowledge of word building, use, pronunciations, spelling of medical terms, applying terms to the function and structure of body systems and specific disease conditions. Emphasis is placed on medical terms in periodicals, textbooks, and medical care areas. This is a health careers foundational course. (F, Sp, Su)

CHSE 123 Medical Insurance Billing I

Prerequisite: CHSE 120 2.5 minimum or CHSE 121 2.5 minimum or OADM 197 2.5 minimum

This two-semester sequence course introduces insurance billing, diagnostic and procedure coding using the ICD-9, CPT, HCPCS and manuals for BCBS, Medicare, Medicaid, worker's compensation, commercial insurances, and HMOs. Legal and compliance issues and responsibilities, and their relationship to insurances are discussed. Computerized insurance billing information is provided. (F).

CHSE 124 Medical Insurance Billing II

Prerequisite: CHSE 123 2.5 minimum

The second course in a two-semester sequence. Includes comprehensive billing directions for BCBS of Michigan, Medicare, Medicald, commercial insurances including HMOs, managed care, and worker's compensation. (Sp)

CHSE 125 Computers in Medical Office

Preraquisite: CHSE 123 2.5 minimum or (CHSE 124 2.5 minimum or Concurrently)

Recommended: Keyboard Experience

Course covers one or more current computer software programs. Students learn to record charges/payments/information, schedule appointments, ICD-9 and CPT coding, produce claim forms and patient statements, submit claims electronically, and build office databases. A certificate of completion is awarded for Medical Insurance Billing if a grade point of 2.5 or better is earned in CHSE 123, 124, and 125. (F, Sp)

CHSE 132 Health Unit Coordinator

Prerequisite: CHSE 120 2.5 minimum or CHSE 121 2.5 minimum Course is designed to introduce the student to basic health care unit coordinator skills. Subject matter will include communication skills, computers, assertiveness, chart forms, admissions, transfers, discharges, death and dying, pharmacology, laboratory tests, transcribing physician orders, and job application skills. Clinical component is included. (F, Sp)

CHSE 143 Phiebotomy Technician

Prerequisite: None

This course is designed to prepare a person to function as a phlebotomy technician. It will provide the knowledge and skill necessary to safely and skillfully obtain a blood specimen from a patient. The course includes lecture and campus laboratory. (F, Sp)

CHSE 145 Healthcare Central Serv Tech

Prerequisite: Reading Level 3

This course prepares individuals to function competently in the central service department of a health care facility. Duties include (but are not limited to) processing of patient care equipment, supplies, and instruments for use in all departments. Includes 'principles and practices of decontamination, cleaning, disinfection, sterilization, and distribution of medical/surgical supplies. (F)

CHSE 201 Dietary Manager I

Prerequisite: Department Approval

The first course in a three-semester sequence preparing students for careers as dietary managers. Comprised of classroom and field experience and focusing on nutrition and diet therapy, the content includes interpreting, modifying, planning, and recording nutritional data, as well as conducting client centered, nutritional education sessions. (F)

CHSE 202 Dietary Manager II

Prerequisite: CHSE 201 2.5 minimum

The second course in a three-semester sequence preparing students for careers as dietary managers. Comprised of classroom and field experience, this course focuses on the sanitation and management of a foodservice operation. The emphasis is on sanitary practices involving purchasing, storing, preparing, and serving food that is nutritious and safe. (Sp)

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CHSE 205 Advanced Dietary Therapy

Prerequisite: CHSE 202 2.5 minimum

The third course in a three-semester sequence preparing students for careers as dietary managers. Comprised of classroom and field experience, this course focuses on the management of a foodservice department's human resources, whose charge is to provide their clients with safe, wholesome food in a cost effective manner. (Su)

CHSE 235 Pharmacy Technician

Prerequisite: MATH 050 2.0 minimum or Math Level 4

Recommended: AHCC 110 2.5 minimum

This course is designed to introduce students to the skills necessary for a pharmacy technician position in a hospital or retail pharmacy. Students will be prepared to function with knowledge and accuracy in dispensing and control of drugs in either setting. (F)

CISB - Computer Information Systems for Business

CISB 100 Intro Computer Info Systems

Prerequisite: Reading Level 3 and Writing Level 4

This course provides an introduction to computers, their role in managing business information systems, their influence on society, and their use in personal productivity. It includes a hands-on introduction to three major microcomputer tools: word processors, spreadsheets, and database management systems. (F, Sp. Su)

CISB 102 Internet Literacy

Prerequisite: CISB 100 2.0 minimum

Recommended: Windows Familiarity

This course teaches basic hands-on skills and knowledge for Internet professionals. Internet Fundamentals guides students through the Internet and its array of useful resources. Web Page Authoring Fundamentals teaches students Web page creation and Web authoring. Networking Fundamentals teaches students fundamental networking concepts and practices. Students will take the CIW Foundations Exam 1D0-410 for the Certified Internet Webmaster Associate certification. (F, Sp, Su)

CISB 104 Introduction to DOS

Prerequisite: Reading Level 5

Students in this course develop skill in applying the most common commands of the disk operating system (DOS) used by IBM-type microcomputers. Students also learn how to organize disk directories and how to create and work with files. File attributes, pipes, filters, and redirection are also discussed. (F, Sp, Su)

CISB 107 DOS Management

Prerequisite: Reading Level 5

Recommended: CISB 104

Students in this course learn advanced concepts in managing a DOS based operating system. Techniques are introduced for batch files, replaceable parameters, batch programming, memory and configuration files, viruses, and the Windows Registry, (F, Sp, Su)

CISB 114 Programming Logic

Prerequisite: Reading Level 5

An introduction to programming logic which includes an introduction to structured design, programming control structures, arrays, file update, and control break processing. Flowcharts and the Warnier-Orr diagram are used for logic design. Coding examples and problems are covered using OBASIC and Visual BASIC. (F. Sp. Su)

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CISB 119 Intro Window Prog Visual BASIC

Prerequisite: Reading Level 5.

Recommended: MATH 050 or Equivalent

An introduction to concepts of Windows programming using Visual Basic. Students learn to develop business applications by designing and creating a user interfaces and writing the necessary procedures. Students also learn to use logic development tools and object-oriented programming techniques. Topics include user interface design, beginning programming concepts, file and database programming. (F. (Sp. Su)

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CISB 122 Adv Windows Prog Visual BASIC Prerequisite: Reading Level 5

Recommended: CISB 119

A second course in the Visual Basic programming sequence. This course presents programming in the Windows environment and leads to the creation of functional Windows application programs. Topics include advanced form design, random access files, development of error handlers, development of keyboard handlers creating class modules, database access and programming, developing help systems, and making Windows API calls. This course includes the exam that leads to Microsoft Certified Professional certification. (F, Sp)

CISB 130 Data Communications

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Prerequisite: CISB 100 2.0 minimum and Reading Level 5 and Writing Level 6 Recommended: CISB 114 or CISB 119

The course provides a comprehensive introduction to data communications systems, how they are integrated, and differences between the various networks and network carriers. Students learn terminology and major protocols to a level adequate to discuss data communication topics with other professionals. This course includes the N10-002 CompTIA Network+ exam that leads to CompTIA Network+ certification. (F. So, Su)

CISB 133 Operating Systems

Prerequisite: Reading Level 5

Recommended: CISB 100 and (CISB 114 or CISB 119)

The course covers what operating systems are, why they exist, what they do, and how they interface with the operators and programmers. Main memory management and processor scheduling are studied along with device and file management. Case studies of current operating systems are studied. (F, Sp)

CISB 137 Introduction to Oracle: SOL

Prerequisite: Reading Level 5.

Recommended: Windows Familiarity This class covers the concepts of relational databases, SQL and PL/SQL. Students learn to create and maintain database objects; store, retrieve, and manipulate data; and create PL/SQL blocks of application code. At the end of this course the student will take the Oracle Exam 120-001 which is a part of the Oracle internet Application Developer Certification. (F, Sp)

CISB 138 Oracle PL/SOL Program Units

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Prerequisite: CISB 136 2.0 minimum or CISB 137 2.0 minimum This course introduces the PL/SQL programming language. Students create sharable PL/SQL blocks of application code, develop and manage PL/SQL program units and database triggers, manage dependencies, manipulate large objects, handle exceptions, and use the Oracle-supplied package. Students will take the Oracle Exam 120-101 which is part of the Oracle Internet Application Developer Certification. (F, Sp)

CISB 147 Oracle: Build Internet Apps I

Prerequisite: CISB 138 2.0 minimum

In this course students build and test interactive Internet applications. Working in a graphical user interface (GUI) environment, students learn to customize forms with user input items such as check boxes, list items, and radio groups. They also learn to modify data access by creating event-related triggers. Students will take the Oracle Exam 1Z0-131 which is part of the Oracle Internet Application Developer Certification, (F, Sp)

CISB 148 Oracle: Build Internet Apps II

Prerequisite: CISB 147 2.0 minimum or (CISB 136 2.0 minimum and CISB 143 2.0 minimum)

In this course students broaden their application building skills using Oracle Forms Developer. Students create multiple-form Internet applications, learn to manage multiple transactions across modules, and enhance applications by adding custom menus, réports, charts, and Web-deployed forms using Java Beans. Students will take the Oracle Exam 120-132 which is part of the Oracle Internet Application Developer Certification. (F, Sp)

CISB 170 COBOL I

Prerequisite: None

Recommended: CISB 100 and (CISB 114 or CISB 119)

This is an introductory course in COBOL programming emphasizing syntax, structured program design, and business application processing concepts. Coding standards and program documentation are introduced. Topics include control breaks, table processing, data validation, sort report processing, and sequential file maintenance. (F, Sp, Su)

CISB 180 Intro to C/C++ Program for Bus

Prereguisite: None

Recommended: CISB 100 and (CISB 114 or CISB 119) Students will use professional development tools to become familiar with the C programming language by designing, implementing, and testing programming projects. Topics include pointers, linked lists, data structures, and dynamic memory allocation. (F, Sp)

CISB 200 Info Sys Tech/Problem Solving

Prerequisite: Reading Level 5 and Writing Level 6

Fundamental changes have occurred in organizations with the application of computer technology. This course chronicles the source of that technology in science, explores the limitations of computer technology, examines the impact of the technology in business organizations and society, and develops problem-solving techniques for use in conjunction with computers. Students will work in teams, make group presentations and apply continuous improvement methods. (F, Sp, Su)

CISB 203 Developing Pages for the Web

Prerequisite: CISB 102 2.0 minimum or ARTS 173 2.0 minimum

Recommended: Reading Level 5 and Writing Level 6

This course explores techniques of web page construction including HTML and the appropriate use of multimedia elements. Students will develop individual websites that progress to include elements such as graphics, sound, video and forms. Students will also demonstrate, as in a team, their understanding and application of the concepts introduced during the semester. (F, Sp, Su)

CISB 204 Commercial Internet Site Mgmt

Prerequisite: CISB 203 2.0 minimum

Recommended: Reading Level 5 and Writing Level 6 This course introduces concepts of website management. Students will explore website planning, promotion, security, and access control, as well as the legal issues with website management. Students will gain familiarity with various operating platforms and service software. (F, Sp)

CISB 227 Adv Concepts Computer Info Sys

Prerequisite: Department Approval

With this course, students will learn advanced computer information systems topics as part of a class, an independent study, or a project. Grading criteria and course objectives are determined at the first meeting. (F, Sp, Su)

CISB 230 Intro to Local Area Networks

Prerequisite: CISB 130 2.0 minimum and CISB 133 2.0 minimum The student in this course learns how to maintain a Local Area Network (LAN). Topics advance students to a point where they can administer a Novell NetWare 5.1 network. This course includes the NetWare 5.1 Administration 50-853 exam that leads to Certified Novell Administrator for NetWare 5.1 certification. (F, Sp)

CISB 231 Advanced Local Area Networks

Prerequisite: CISB 230 2.0 minimum

The student in this course learns administration techniques for Novell NetWare 6. Topics include a review of network security technology and Internet-based tools. This course includes the Foundations of Novell Networking 50-677 exam that leads to Certified Novell Administrator for NetWare 6 certification. (F, Sp)

CISB 233 Microsoft Network Server

Prerequisite: CISB 130 2.0 minimum and CISB 133 2.0 minimum This course provides students with an understanding of Microsoft Windows Server

administration. The course focuses on installing and configuring a server, setting up and managing network printing services, establishing remote access services, setting up Internet services, and troubleshooting problems. This course includes the 70-215 Installing, Configuring, and Administering Microsoft Windows 2000 Server exam that leads to Microsoft Certified Professional certification. (F, Sp)

CISB 234 Linux/UNIX Operating System

Prerequisite: CISB 130 2.0 minimum and CISB 133 2.0 minimum

This course provides hands-on training in the Linux operating system. Students will learn to install, use, and administer a Linux operating system including shell programming and user account management. Application software for Linux operating systems will also be discussed. This course includes the XK0-001 CompTIA Linux+ earn that leads to Comp TIA Linux+ certification. (F, Sp)

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CISB 235 Microcomputer Hardware Support

Prerequisite: Reading Level 5

Recommended: CISB 100 and CISB 133

This course provides the student with practical, hands-on experience in installing, maintaining, and trouble-shooting microcomputer hardware. Topics include CPU, storage devices, add-on boards, video displays, printers, communication devices, and configuration. This course includes the 220-221 CompTIA A+ Core Hardware exam that is the first half of the requirements for CompTIA A+ certification. (F, Sp)

CISB 236 Microcomputer Software Support

Prerequisite: Reading Level 5

Recommended: CABS 195 and CISB 133 and CISB 200

This course provides students with the skills necessary to diagnose and correct problems that microcomputer users encounter. The course covers installing and upgrading operating systems and applications, memory optimization, and printer configuration. This course includes the 220-222 CompTIA A+ OS Technologies exam that is the second half of the requirements for CompTIA A+ certification. (F, Sp)

CISB 245 Programming Internship

Prerequisite: Department Approval

This internship provides the student with on-the-job experience as a computer programmer. Two hundred hours of experience at a local computer information systems site is required. The student is expected to write or maintain programs, create documentation, learn job control commands, and work on interactive systems. (F, Sp, Su)

CISB 247 Microcomputer Project

Prerequisite: Department Approval

With this course, students apply what they have learned about programming and systems development computer support as a part of an internship, an independent study, or a project. Grading criteria and course objectives are determined at the first meeting. The course requires a minimum of 150 internship hours or 96 independent study hours. (F, Sp, Su)

CISB 250 Database Concepts

Prerequisite: CISB 100 2.0 minimum and (CISB 114 2.0 minimum or CISB 119 2.0 minimum) and Reading Level 5 and Writing Level 6

Students learn the functions of a database management system. The relational model and SQL are used. Normalization and database design are covered. The CODASYL model is discussed and emerging trends are studied. (F, Sp)

CISB 251 Database Design

Prerequisite: CISB 250 2.0 minimum and ((CISB 136 2.0 minimum and CISB 143 2.0 minimum) or (CABS 232 2.0 minimum and CABS 234 2.0 minimum) or (CISB 148 or Concurrently))

This course provides training in the design of databases, emphasizing the relational database model. Students will build on the database design skills that they learned in other courses. They will learn more complex normalization and how to use E-R diagrams to help design and document the database. Students will participate in project teams for the course project. This course includes the exam that leads to Microsoft Certified Professional certification. (F. Sp)

CISB 253 WWW Interactive Programming

Prerequisite: (CISB 119 2.0 minimum or CISB 122 2.0 minimum) and CISB 203 2.0 minimum

This course provides instruction in programming the World Wide Web (WWW) to make it interactive. The fundamentals and techniques of Common Gateway Interface programming are presented as step-by-step instructions. Students progress to more advanced topics to design interactive Web pages. Complete instructions are given on implementing JavaScript, VBScript, C, and Perl. This course includes the exam that leads to Certified Internet Webmaster Professional certification. (F, Sp)

CISB 260 Systems Analysis and Design

Prerequisite: CISB 100 2.0 minimum and (CISB 114 2.0 minimum or CISB 119 2.0 minimum) and Reading Level 5 and Writing Level 6

This course presents concepts and techniques used in the development of computer business application systems. The traditional approach for systems development is presented and compared to the approach used in a 4th Generation Environment. Structured techniques are utilized in the development approach as well as Computer-Assisted Software Engineering (CASE) tools. (F, Sp)

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CISB 261 Systems Implementation

Prerequisite: CISB 260 2.0 minimum This course applies the concepts and techniques of systems analysis and design developed in CISB 260 into working systems. Project management concepts will be presented as will new concepts in systems analysis and design, such as Computer-Assisted Software Engineering (CASE) tools, Object-Oriented Analysis (OOA), etc. Students will be formed into project teams for a course project. (F. Sp)

CISB 270 COBOL II

Prerequisite: CISB 170 2.0 minimum

An advanced COBOL course covering indexed file creation and updating, sub-program concepts, and writing interactive programs. Copy libraries are used, and a system of related programs is completed as a class project. (Sp)

CISB 280 Adv C/C++ Program with OOP

Prerequisite: CISB 180 2.0 minimum

Students will build on their knowledge of C Programming to become familiar with the C++ programming language and object-oriented programming and design by designing, implementing, and testing programming projects. Encapsulation, inheritance, and polymorphism are explored. (F, Sp)

CISB 281 Visual C++ Programming

Prerequisite: CISB 122 2.0 minimum

An introduction to the fundamentals of C++ as a control/linking program in the Windows environment. Students will use existing classes and visual tools to rapidly create applications, learning object oriented techniques with C++ tools. This course includes the 70-016 Designing and Implementing Desktop Applications with Microsoft Visual C++® 6.0exam that leads to Microsoft Certified Professional certification. (F, Sp)

CISB 283 Intro to JAVA Programming

Prerequisite: CISB 102 2.0 minimum and (CISB 114 2.0 minimum or CISB 119 2.0 minimum or CISB 122 2.0 minimum)

This course introduces students to the essential elements of the Java Programming language, object-oriented programming methodology, and the features provided by the Java language. Students will create and modify simple Java applications and applets. This course includes the 310-025 Sun Certified Programmer exam that leads to Sun Certified Java2 Programmer certification. (F. Sp. Su)

CIVL - Civil Technology

CIVL 101 Civil Drafting

Prerequisite: CADD 100 2.5 minimum (previously DTDS 100) or LAND 100 2.5 minimum or Drafting Placement Test 70%

This course emphasizes plotting land surveying descriptions, traverses, contours, profiles, cross-sections, templates, and the three views required in highway work. Students will learn how to read basic highway plans and make sketches from field notes. (F, Sp)

CIVL 120 Surveying

Prerequisite: MATH 114 3.0 minimum or Math Level 5

Introduces students to surveying technology and the use of the latest equipment. Emphasis is placed on developing skills in operation and the proper handling of high-tech equipment used in the surveying business. Good field work habits and office engineering are covered. (F, Sp)

CIVL 124 Route Survey

Prerequisite: CIVL 120 2.5 minimum This course includes surveying computations in such areas as horizontal curves, vertical curves, spirals and data needed for highway construction layout. Also includes work with surveying computation software and fieldwork with total stations. (F, Sp)

CIVL 131 Traffic Technology

Prereguisite: None

This course introduces basic principles of traffic engineering design, signing and pavement marking, traffic signalization and how these elements are used to improve motorists safety. Emphasis is placed on the use of these devices in and around construction zones. Basic concepts on traffic flow and capacity analysis will be presented. (Sp)

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CIVL 132 Construction Materials

Prerequisite: MATH 114 3.0 minimum or Math Level 5 Students will study techniques and equipment used in constructing bridges, buildings, highways and pipelines. Deals with determination of properties of aggregates, concrete and other bituminous materials. Teaches methods of designing concrete mixes for different uses and methods of sampling and testing. (F, Sp)

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CIVL 135 Soils Technology

Prerequisite: MATH 114 3.0 minimum or Math Level 5 Exploring, sampling, testing and evaluating subsurface materials and their effect on construction are covered in this course. Includes an introduction to methods of subsurface drainage, soil classifications and physical properties of soils; and discussion, demonstration and performance with equipment used in density testing. (SD)

CIVL 136 Hydrology and Highway Tech

Prerequisite: CIVL 131 3.0 minimum and (MATH 114 3.0 minimum or Math Level 5)

This course is an introduction to highway inventory, planning, organization, rudiments of finance, geometric design, earthwork, and drainage structures. Emphasis is placed on these elements as components of final highway plans. Analysis of precipitation and the attendant runoff and recharge will be introduced. (Sp)

CIVL 200 Civil Mathematics

Prerequisite: MATH 114 3.0 minimum or Math Level 5 This course applies differential calculus and integral calculus to practical technical problems. Topics include related rates, maximum and minimum problems and areas under curves. (Sp)

CIVL 225 Independent Study/Civil

Prerequisite: None

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Restriction: Civil Technology Majors Students are allowed to undertake special research projects to apply to their protessional experience and academic major. A minimum of 48 hours of work per credit is required and the completion of a written project report. This course cannot be audited. (Sp)

CIVL 241 Statics/Strength of Materials

Prerequisite; CIVL 200 2.5 minimum

Structural terminology and concepts are introduced. General behavior of structural members in compression, stress, strain, creep, fatigue, yield, tension, shear, bending and torsion due to different loading conditions are studied. Loads and forces, conditions of stability and equilibrium in structural frames and free body analysis for reactions and member forces are considered. (Sp)

CIVL 271 MDOT Internship I

Prerequisite: Department Approval

Provides first-year civil technology students with practical work experience in their career field. The student works for the Michigan Department of Transportation (MDOT) in jobs related to highway and bridge construction as well as attending inclass instruction. Enrollment is restricted to MDOT Civil Technology students. (Su)

CIVL 272 MDOT Internship II

Prerequisite: Department Approval

Provides second-year civil technology students with practical work experience in their career field. The student works for the Michigan Department of Transportation (MDOT) in jobs related to highway and bridge construction, as well as attending in-class instruction. Enrollment is restricted to MDOT Civil Technology students. (F, Su)

CJUS - Criminal Justice

CJUS 101 Intro to Criminal Justice

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Prerequisite: Reading Level 5 and Writing Level 4 A survey course designed to provide students with a current, coordinated, and comprehensive overview of criminal justice as an institution and as a system. Emphasizes historical, philosophical, constitutional, and organizational perspectives. (F, Sp, Su)

CJUS 102 Crime Causes and Conditions

Prerequisite: Reading Level 5 and Writing Level 4 Why do some individuals pursue a life of crime? This course introduces and analyzes the past, present, and future of criminology. Sociological, psychological, and biological factors are examined to determine their interaction with and impact on criminal behavior. (F, Sp, Su)

CJUS 103 Criminal Law

Prerequisite: CJUS 101 1.0 minimum or Concurrently Study of substantive criminal law. Includes classification of crimes, common law concepts, elements of specific crimes, and discussion of current trends in criminal law nationally and locally. (F, Sp, Su)

CJUS 106 Intro to Juvenile Justice

Prerequisite: Reading Level 5 and Writing Level 4 This course emphasizes the legal foundation, as defined by Michigan law, upon which the criminal justice practitioner must rely in dealing with the juvenile offender and the juvenile victim. In addition, this course will introduce the student to the juvenile offender. (F, Sp, Su)

CJUS 126 Juvenile Offenders/Their Fam

Prerequisite: None

The course takes an in-depth look at the diverse nature of juvenile offenders and their family backgrounds. Issues impacting juvenile behavior such as gender, gangs, drugs, and disabilities will be discussed. (F. Sp, Su)

CJUS 130 Local Detention

Prerequisite: Reading Level 5 and Writing Level 4

The course explains operations of local detention facilities and their unique role in the criminal justice system. Emphasis is placed on Michigan jail and lockup operations, as well as the organization, management, policy environment, and emerging issues confronting American jails. Differences in jail and prisons regarding operations and differing clienteles are also covered. (F, Sp)

CJUS 131 Introduction to Corrections

Prerequisite: Reading Level 5 and Writing Level 4

Recommended: Math Level 3

Introduction to agencies and processes within the correctional system. An examination of correctional officer behavior, corrections legislation, the courts, correctional institutions and their operation, and administration. Includes overview of history sentencing, probation, parole, and community corrections. This course is required for the corrections officer vocational certificate. (F, Sp)

CJUS 133 Juvenile Residential Services

Prerequisite: None

Recommended: CJUS 106 1.0 minimum or Concurrently All aspects of court-placement of juveniles in residential facilities will be examined. Staffing and operations of both public and private agencies will be discussed, focusing both on treatment and detention issues. (F. Sp. Su)

CJUS 134 Probation and Parole

Prerequisite: (CJUS 101 1.0 minimum or CJUS 131 1.0 minimum) or

Concurrently An introductory level course in probation and parole with strong emphasis on counseling, interviewing skills, and supervision techniques. Students will also learn the mechanics of writing violation, progress, and pre-sentence reports. (Fi Sp, Sú)

CJUS 135 Legal Issues in Corrections

Prerequisite: (CJUS 130 1.0 minimum or CJUS 131 1.0 minimum) or Concurrently

Study of current constitutional, federal and state law as it pertains to penal institutions, inmates, and correctional employees. The course will provide students with insight into policy considerations behind state and federal law, legal process, oourt decisions, and inmate rights. This course is required for the correctional officer vocational certificate. (F, Sp, Su)

CJUS 201 Criminal Justice Org/Admin

Prerequisite: CJUS 101 1.0 minimum or Concurrently Examines the primary concepts of criminal justice organization and administration emphasizing processes and theories, communications, leadership, personnel, budgeting, planning, information management, and community relations. (F, Sp, Su)

CJUS 203 Criminal Procedure

Prerequisite: CJUS 103 1.0 minimum or Concurrently Study of criminal procedural law. Includes laws of arrest, search and seizure, and admissions and confessions; suspect identification; and rules of evidence. (F, Sp)

CJUS 204 Criminal Investigation

Prerequisite: Reading Level 5 and Writing Level 4

Recommended: CJUS 103 1.0 minimum

Examines the fundamentals of criminal investigation such as crime scene procedures, collection and preservation of physical evidence, interviewing. Interrogation, and latent investigation. (F, Sp)

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CJUS 205 Policing into the 21st Century 3	CJUS 263 Standard First Aid
Prerequisite: CJUS 101 1.0 minimum This course is designed to provide the student with an understanding of the phi-	Prerequisite: None Co-requisite Course(s): CJUS 260 and CJUS 261 and CJUS 262 and CJUS 264
instructure in the implementation of non-traditional policing methods, as well as the develop-	and CJUS 265 and CJUS 266 and CJUS 267 and CJUS 268 and PFFT 114
ment of a partnership between the community and the police, will be examined. (F. Sp)	Designed to identify the roles and responsibility of a law enforcement officer at the scene of a medical emergency based upon American Red Cross standard first aid
CJUS 242 Unarmed Defense 3	and CPR training. (Sp, Su)
Prerequisite: None	CJUS 264 Rprt Writing in Law Enforce 1
Hands-on techniques to prepare students to properly and effectively handle law enforcement related physical confrontations. Includes use of force decision-mak- ing skills, pressure points, control holds, and handcuffing. (F, Sp. Su)	Prerequisite: None Co-requisite Course(s): CJUS 260 and CJUS 261 and CJUS 262 and CJUS 263 and CJUS 265 and CJUS 266 and CJUS 267 and
CJUS 245 Report Writing in CJ 2	CJUS 268 and PFFT 114
Prerequisite: CJUS 101 1.0 minimum or CJUS 130 1.0 minimum or CJUS 131 1.0 minimum	Designed to prepare the student to effectively and efficiently write a proper police report that will serve as a basis for the issuance of a warrant and court prosecution. Topics include obtaining information, basic English skills, criminal justice, ter-
Designed to meet the needs of criminal justice writing. Components include gram- mar, punctuation, sentences, paragraphs, styles of writing, and proper documen-	minology, and proper formatting. (Sp. Su)
tation of work effort. Frequent writing practice. (F, Sp, Su)	CJUS 265 Highway Traffic Operations 3
CJUS 250 Correctional Institutions 3	Prerequisite: None Co-requisite Course(s): CJUS 260 and CJUS 261 and CJUS 262 and CJUS 263
Prerequisite: CJUS 131 1.0 minimum or Concurrently Examines the historical development of corrections institutions in the United	and CJUS 264 and CJUS 266 and CJUS 267 and CJUS 268 and PFFT 114
States. The organizational structure, purpose, programs, security aspects, and prisoner due-process rights, as well as the future of institutions, will be examined. This course is required for the correctional officer vocational certificate. (F, Sp, Su)	This course is designed to familiarize the student with the proper procedures for traffic control and enforcement. Emphasizes state motor vehicle laws and procedures; arrests and citations, O.U.I.L., and accident investigation. (Sp. Su)
CJUS 251 Correctional Clients 3	CJUS 266 Basic Police Science 3
Prerequisite: (CJUS 130 1.0 minimum or CJUS 131 1.0 minimum) or	Prerequisite: None
Concurrently Emphasis is placed on the needs, identities and development of the recipient of	Co-requisite Course(s): CJUS 260 and CJUS 261 and CJUS 262 and CJUS 263 and CJUS 264 and CJUS 265 and CJUS 267 and
correctional services. Students will gain insight into the behavior and motivations of the corrections client and learn intervention strategies. This course is required for the correctional officer vocational certificate. (F, Sp, Su)	CJUS 268 and PFFT 114 This course is concerned with technical and physical techniques employed in the investigation of crime. The course involves traditional classroom as well as field
CJUS 255 Human Relations/Criminal Just 3	experiences. (Sp. Su)
Prerequisite: (CJUS 101 1.0 minimum or CJUS 130 1.0 minimum or CJUS 131	CJUS 267 Law Enforcement Phys Traing 2
1.0 minimum) or Concurrently and Reading Level 5 This course focuses on understanding those aspects of interpersonal relations	Prerequisite: None Co-requisite Course(s): CJUS 260 and CJUS 261 and CJUS 262 and CJUS 263
most directly linked to attainment of organizational and individual goals in work settings. This course is required for the correctional officer vocational certificate.	and CJUS 264 and CJUS 265 and CJUS 266 and CJUS 268 and PFFT 114
most directly linked to attainment of organizational and individual goals in work settings. This course is required for the correctional officer vocational certificate. (F, Sp, Su)	and CJUS 264 and CJUS 265 and CJUS 266 and CJUS 268 and PFFT 114 Designed to assist law enforcement students in developing and improving their
most directly linked to attainment of organizational and individual goals in work settings. This course is required for the correctional officer vocational certificate. (F, Sp, Su) CJUS 260 Criminal Invest & Procedures 3 Prerequisite: None	and CJUS 264 and CJUS 265 and CJUS 266 and CJUS 268 and PFFT 114
most directly linked to attainment of organizational and individual goals in work settings. This course is required for the correctional officer vocational certificate. (F, Sp, Su) CJUS 260 Criminal Invest & Procedures 3 Prerequisite: None Co-requisite Course(s): CJUS 261 and CJUS 262 and CJUS 263 and CJUS 264 and CJUS 265 and CJUS 266 and CJUS 267 and	and CJUS 264 and CJUS 265 and CJUS 266 and CJUS 268 and PFFT 114 Designed to assist law enforcement students in developing and improving their physical fitness. The course includes running, aerobics, calisthenics, and stretch- ing. (Sp, Su) CJUS 268 Precision Driving 3
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CJUS 287 Juvenile Internship II

Prerequisite: (CJUS 133 1.0 minimum or Concurrently) and CJUS 286 1.0 minimum and Department Approval

Recommended: For Juvenile Care Worker Students

The student will be placed in a residential facility with juveniles who have been adjudicated by the court to be detained in a secure environment for treatment and rehabilitation purposes. (F, Sp, Su)

CJUS 288 Corrections Internship

Prerequisite: Department Approval

The student will be placed in a local or state corrections facility that will allow him or her to experience many facets of correction operations. Weekly written reports are required and periodic meetings are mandatory. A minimum of 160 hours is required. (F; Sp, Su)

CNCP - Computerized Numerical Control Program CNCP 101 PC Applications for Technology

Prerequisite: None

An introduction to PCs as used in a technical-industrial setting. Students will learn how computer hardware is set up. Windows-NT along with word processing, spreadsheet, computer graphic and presentation software will be covered. Students will extensively use the Internet to obtain assignments, turn in homework and research projects. (F, Sp, Su)

CNCP 105 Basic Machining Processes

Prerequisite: (MATH 114 2.0 minimum or Math Level 4) and Reading Level 5 and Writing Level 4

Recommended: Computer Experience

This course is designed for non-machinist/Computerized Numerical Control (CNC) programming majors who need an introduction to machining processes and systems. Topics covered will include conventional machining processes, basic CNC programming and Computer-Aided Manufacturing (CAM) operations. (F, Sp, Su)

CNCP 110 Foundations of CNC Programming

Prerequisite: MACH 105 3.0 minimum and (MATH 114 2.0 minimum or Math Level 4) and Reading Level 5 and Writing Level 4

Recommended: Computer Experience

This course lays the foundation for all other Computerized Numerical Control (CNC) courses. Subjects covered include Z-axis cycles, tool diameter compensation, rough and pocketing cycles, macros and sub-programs, and parametric programming with equations. Students will write programs for 3-axis and 5-axis mills and 3-axis lathes. (F, Sp)

CNCP 130 Machine Controls and Setup

Prerequisite: CNCP 110 2.0 minimum

Focuses on the set up and operation of a variety of CNC machines ranging from simple 3-axis to sophisticated 5-axis conversational controls. Topics will include proper machine start-up and shut-down, tool data management, fixture alignment and program loading and editing. (F, Sp)

CNCP 194 CNC Project Lab

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Prerequisite: CNCP 130 2.0 minimum Further skills are pursued involving modern concepts of numerical control of machine tools, including the interrelationship of these new manufacturing methods in the various departments of a company. (F. Sp, Su)

CNCP 200 Unigraphics NC

Prerequisite: CNCP 110 2.0 minimum and CADD 242 2.0 minimum (previously DTDS 180)

Unigraphics NC (Numerical Control) is a leader in parametric Computer Aided Manufacturing software used to graphically program CNC machine tools. Course topics will cover preparation of drawings for programming, basic APT programming, Multi-axis programming and Overlay features. Selected programs will be run on CNC machines. (Sp)

CNCP 210 Mastercam

Prerequisite: CNCP 110 2.0 minimum

Mastercam is a powerful graphics based programming software for CNC machine tools. Mastercam software is designed to generate CNC programs from mechanical CAD drawings. Students will use Mastercam to solve CNC programming problems in both 2-D and 3-D environments and run selected programs on CNC equipment. (F, Sp)

CNCP 220 Gibbs Cam

Prerequisite: CNCP 110 2.0 minimum

This course teaches the student how to generate 3-D models and produce CNC codes for milling and turning applications using Gibbs Cam software. (F, Sp)

CPSC - Computer Science

CPSC 120 Introduction to Computers

Prerequisite: Reading Level 3 and Writing Level 4 In this survey course, the student learns of the application of computers in society, considers their social and economic implications, examines questions of privacy and security, and considers recent advances in computer technology. In addition, the student is exposed to beginning instruction and practice in word processing, spreadsheet and database applications, programming, and user networks. (F, Sp, Su)

CPSC 230 Algorithms and Computing W/C++

Prerequisite: Reading Level 5 and Writing Level 4 and (MATH 151 2.0 minimum or Concurrently)

This course establishes fundamental computational techniques required for continuing study in computer science. Students design, implement and test C++ programs to solve a wide range of problems. Topics include program development, functions, control structures, text file operations, data types/classes, recursion, STL string/vector<T> classes, arrays, pointer variables, and elementary linked lists. (F. Sp, Su)

CPSC 231 Computing and Data Structures

Prerequisite: CPSC 230 2.0 minimum and Reading Level 5 and Writing Level 4 Data abstraction and related theory for representation and access of information using C++. Algorithms and abstract data structures such as the stack, queue, binary search tree, heap and priority queue are studied. (F, Sp)

CPSC 260 Computer Science Structures

Prerequisite: Reading Level 5 and Writing Level 4 and MATH 151 2.0 minimum and (CPSC 150 2.0 minimum or CPSC 230 2.0 minimum or Department Approval)

Introduction to logical and algebraic structures and techniques required for further study in computer science. Topics include statement logic and proof techniques, relations, functions, directed and undirected graphs and their matrix representations, Boolean algebras and logic networks, regular expressions, finite-state machines, and Turing machines. (Sp)

CPSC 295 Ind. Study in Computer Science

Prereguisite: Department Approval

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (F, Sp, Su)

CUAI - Credit Union Accounting and insurance

CUAI 102 Credit Union Accounting

Prerequisite: None

This course emphasizes those areas of financial accounting relevant to external reporting by credit unions. (Sp)

CUMA - Credit Union Management-

CUMA 100 Intro Credit Union Operations

Prerequisite: None

This course provides students with an overview of the credit union movement, its position in the financial services industry, and basic credit union operating procedures. Directed toward staff, management, and elected officials of credit unions who wish to increase their knowledge of both the credit union movement and operations. (F, Sp)

CUMA 200 Credit and Collections

Prerequisite: None

This course covers the fundamentals of the credit/collection industry. Emphasis is placed on learning the basics of the credit decision-making process and the collection of past due loans. The course is designed for credit union personnel who want to better understand the relevant laws and regulations of credit union credit and collections. (F, Sp)

CUMA 215 Business Law for Credit Unions

Prerequisite: None

This course covers fundamental principles of law applicable to credit union personnel and will prepare students to perform the legal responsibilities of their jobs more knowledgeably. Course content includes study of contracts, personal and real property, torts, crimes, and the nature and sources of law as related to credit union operations. (F, Sp)

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DANC 101 - DENT 154

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DANC - Dance

DANC 101 Beginning Ballet

Prerequisite: None

Designed for students with no dance experience. Included are examination of the history of Ballet, dance anatomy and injury prevention in addition to basic barre and center floor combinations, alignment principles, ballet vocabulary and steps, and elementary combinations of ballet technique for the beginning student. (F; Sp, Su)

DANC 102 Beginning Modern

Prerequisite: None

Designed for the students with no dance experience. Basic examination of the history of Modern dance, training in dance anatomy, injury prevention, alignment techniques, spatial relationships, and elementary combinations will be explored. Improvisation will be used throughout the course to assist in developing kinesthetic, spatial, cognitive, and physical awareness. (F, Sp, Su)

DANC 103 Beginning Jazz

Prerequisite: None

Designed for the student with no dance experience, included are examination of the history of Jazz, training in dance anatomy and injury prevention. Basic alignment, warm-up, and isolations in jazz dance technique for beginning dance students are emphasized in addition to spatial relationships and rhythm. (F, Sp)

DANC 104 Beginning Tap

Prerequisite: None

Designed for the student with no dance experience. Included are an examination of the history of Tap as well as training in dance anatomy and injury prevention. Basic vocabulary, steps, combinations, and rhythms are explored in addition to spatial relationships. (F, Sp)

DANC 161 Dance Repertory

Prerequisite: Department Approval

This course is designed for the student who has reached a level of dance technique that will adequately support his/her participation in the concert process. This process includes auditions, rehearsals, and public performances in the ballet genre and concentrates on memorization, projection, and musicality. (Sp)

DANC 201 Intermediate Ballet

Prerequisite: Dance Audition for Intermediate Ballet,

This coursa includes a continuation of movement theory, alignment, increased training practices, vocabulary, and longer combinations. Emphasis is placed on center floor transitional techniques, dance dynamics; and development of personal movement style in preparation for performance. Intermediate concepts in Ballet history and choreography are explored. Pointe shoes are optional. (F, Sp, Su)

DANC 202 Intermediate Modern

Prerequisite: Dance Audition for Intermediate Modern

This course includes a continuation of alignment training, spatial relationships, choreography, improvisation, concepts in Modern Dance history, vocabulary, and longer combinations. Emphasis is placed on center floor transitional techniques, dance dynamics, examination and practice of movement qualities, and development of a personal movement style in preparation for performance: (F. Sp. Su)

DANC 203 Intermediate Jazz

Prerequisite: Dance Audition for Intermediate Jazz

This course includes a continuation of alignment training, movement theory, increased training practices, isolations, and longer combinations. Emphasis is placed on jazz dance dynamics, center floor transitional techniques, and development of a personal movement style in preparation for performance. Intermediate concepts in Improvisation, Choreography and Jazz Dance History are explored. (F, Sp)

DANC 204 Intermediate Tap

Prerequisite: Dance Audition for Intermediate Tap

This course includes a continuation of tap vocabulary, steps, combinations, and rhythms. Emphasis is placed on increased complexity in rhythms and combinations, and development of a personal movement style in preparation for performance. Intermediate concepts in the history of tap, improvisation and choreography are explored. (F, Sp)

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DANC 290 Dance Studio Internship

Prerequisite: Department Approval

Designed for dance students to work with a local professional dance company/dance school. Opportunities include: Advanced dance classes with company members, learning company choreography, experience teaching methodologies, exposure to business aspects of a studio and the arts administrative processes including grant writing. May be repeated three times for credit (\mathcal{F} , Sp)

DENT - Dental Hygiene

orofacial structures. (F)

DENT 140 Oral Histology & Embryology

Prerequisite: Admission to the Dental Hygienist Program Co-requisite Course(s): DENT 142, DENT 144, DENT 146, DENT 148 This course provides an introduction and description of general histology and embryology with emphasis on the microscopic structures of enamel, dentin, pulp, cementum, periodontal ligament, bone, oral mucosa, epithelial attachment and

DENT 142 PreClinical Dental Hygiene

Prerequisite: Admission to the Dental Hygienist Program Co-requisite Course(s): DENT 140, DENT, 144, DENT 146, DENT 148

This course is offered concurrently with DENT, 144, DENT, 140, DENT, 140 dents with the introductory knowledge, skills and attitudes to function in the clinical setting and be able to continue in clinical dental hygiene courses. Emphasis is, placed on scientific principles and current theory, prevention of disease transmission, ethical and professional treatment of patients, clinical learning preparation, and comprehensive care of the patient. (F)

DENT 144 PreClinical DH Practice

Prerequisite: Admission to the Dental Hygienist Program.

Co-requisite Course(s): DENT 140, DENT 142, DENT 146, DENT 148 This course is offered concurrently with DENT 142 to provide clinical application to basic theories and procedures used in dental hygiene practice. The primary emphasis is on the techniques of instrumentation used in performing diagnostic, preventive and therapeutic services utilized when providing comprehensive patient care. The dental hygiene student will have an opportunity to practice these techniques on manikins and student partners in the clinic. (F)

DENT 146 Head, Neck & Oral Anatomy

Prerequisite: Admission to Dental Hygienist Program Co-requisite Course(s): DENT 140, DENT, 142, DENT 144, DENT 148 This course provides a detailed study of nomenclature, morphologic characteristics, and physiologic relationships of human primery and permanent teeth Head and neck anatomy is also studied and is related to the clinical practice of dental hygiene. Laboratory activities develop observation and dexterity skills while studying this information. (F)

DENT 148 Dental Radiography

Prerequisite: Admission to Dental Hygienist Program

Co-requisite Course(s): DENT 140, DENT 142, DENT 144, DENT 146 This course provides a study of radiation physics, hygiene, and safety theories. Emphasis is placed on the fundamentals of oral radiographic techniques and interpretation of radiographs. Course content includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria. and other ancillary radiographic techniques. (F)

DENT 152 Dental Hygiene I

Prerequisite: DENT 140 2.0 minimum and DENT 142 2.0 minimum and DENT 144 and DENT 146 2.0 minimum and DENT 148 2.0 minimum

Co-requisite Course(s): DENT 154 and DENT 156 and DENT 158 and DENT 160 This course is a continuation of information designed to provide an opportunity to enhance performance of procedures in a clinical setting. Emphasis will be placed on emergency care, planning dental hygiene care, health promotion and disease prevention, oral rehabilitation and care of appliances, and modifications of dental hygiene care for specific patient populations. (Sp)

DENT 154. Clinical Dental Hygiene I

Prerequisite: DENT 140 2.0 minimum and DENT 142 2.0 minimum and DENT 144 2.0 minimum and DENT 146 2.0 minimum and DENT 148 2.0 minimum

Co-requisite Course(s): DENT 152 and DENT 156 and DENT 158 and DENT 160 This course provides an introduction to the clinic and patient, clinical skills, patient assessment, treatment and appointment scheduling, preventive techniques and application of dental hygiene procedures in the clinical setting. Practical experience is simultaneously related to theory. Direct supervision is provided by clinical faculty. (Sp)

DENT 156 Nutrition

prerequisite: DENT 140 2.0 minimum and DENT 142 2.0 minimum and DENT 144 2.0 minimum and DENT 146 2.0 minimum and DENT 148 2.0 minimum

Co-requisite Course(s): DENT 152 and DENT 154 and DENT 158 and DENT 160 This course discusses the identification, function, metabolism, and sources of specific nutrients required for normal growth, development, and repair of tissues. Application of principles to the individual's nutritional needs, providing nutritional counseling and diet information to special needs patients, and the relationship of nutrition to oral health are emphasized. (Sp)

DENT 158 Pharmacology

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Prerequisite: DENT 140 2.0 minimum and DENT 142 2.0 minimum and DENT 144 2.0 minimum and DENT 146 2.0 minimum and DENT 148 2.0 minimum.

Co-requisite Course(s): DENT 152 and DENT 154 and DENT 156 and DENT 160 This course provides a study of the importance of the pharmacologic aspects of those drugs and drug groups with which the dentist and dental hygienist are directly and indirectly concerned. Emphasis is placed on nomenclature, origin, physical and chemical properties, preparation, modes of administration, and effects upon the body systems. (Sp)

DENT 160 Oral Pathology

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Prerequisite: DENT 140 2.0 minimum and DENT 142 2.0 minimum and DENT 144 2.0 minimum and DENT 146 2.0 minimum and DENT 148 2.0 minimum.

Co-requisite Course(s): DENT 152 and DENT 154 and DENT 156 and DENT 158 This course is a study of the diseases affecting oral tissues, including the principles of inflammation and repair, developmental disturbances, stains and accretions, diseases of the teeth and supporting structures, oral infection, injuries and neoplasms. (Sp)

DENT 174 Clinical Dental Hygiene II

Prerequisite: DENT 152 2.0 minimum and DENT 154 2.0 minimum and DENT 156 2.0 minimum and DENT 158 2.0 minimum and DENT 160 2.0 minimum

Co-requisite Course(s): DENT 176

This course provides a continuation of clinical skills, patient assessment, treatment and appointment scheduling, preventive techniques and application of dental hygiene procedures. Work-based instruction helps students synthesize new knowledge, apply previous knowledge, and gain experience managing workflow. Practical experience is simultaneously related to theory. Direct supervision is provided by clinical faculty in a clinical setting. (Su)

DENT 176 Dental Materials & Methods

Prerequisite: DENT 152 2.0 minimum and DENT 154 2.0 minimum and DENT 156 2.0 minimum and DENT 158 2.0 minimum and DENT 160 2.0 minimum

Co-requisite Course(s): DENT 174

This course provides a study of the composition, chemical and physical properties, manipulation, and uses of dental materials. Laboratory experiences include the application and manipulation of various materials used in dentistry. (Su)

DENT 240 Anxiety & Pain Control Mgt

Prerequisite: DENT 174 2.0 minimum and DENT 176 2.0 minimum

Co-requisite Course(s): DENT 242 and DENT 244 and DENT 246 and DENT 248 This course will provide the student with basic and current concepts of local anesthetics and pain control for the safe and effective administration of local anesthetics and nitrous oxide/oxygen sedation. Instruction in local anesthetic technique and an introduction to the use of nitrous oxide as an analgesia is included. (F)

DENT 242 Dental Hygiene III

Prerequisite: DENT 174 2.0 minimum and DENT 176 2.0 minimum

Co-requisite Course(s): DENT 240 and DENT 244 and DENT 246 and DENT 248 This course is a continuing development of a theoretical framework of dental hygiene treatment with advancement of dental hygiene proficiency in all areas of dental hygiene treatment. Case histories from patients, are presented and discussed along with preventive measures employed against disease concurrent with clinical practice, with emphasis on special needs patients. (F) 3.5

DENT 156 - ECON 201

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Prerequisite: DENT 174 2.0 minimum and DENT 176 2.0 minimum Co-requisite Course(s): DENT 240 and DENT 242 and DENT 246 and DENT 248 The clinical sessions combine dental hygiene skills with time management techniques essential for private practice. Comprehensive patient care includes assessment, diagnosis, treatment planning, implementation and evaluation of dental hygiene care, nonsurgical periodontal therapy, ultrasonic instrumentation, patient management, sealants, and comprehensive programs for control of dental diseases. The course consists of faculty supervised patient treatment in the clinic. (F)

DENT 246 Principles of Periodontics

Prerequisite: DENT 174.2.0 minimum and DENT 176.2.0 minimum Co-requisite Course(s): DENT 240 and DENT 242 and DENT 244 and DENT 248. This course provides a study of the normal and diseased periodontium to include the structural, functional, and environmental factors. Emphasis is placed on etiology, pathology, evaluation of disease, treatment modalities, and therapeutic and preventive periodontics relative to the hygienist's role as a co-therapist in a contemporary practice setting. (F)

DENT 248 Dental Public Health & Educ.

Prerequisite: DENT 174 2.0 minimum and DENT 176 2.0 minimum Co-requisite Course(s): DENT 240 and DENT 242 and DENT 244 and DENT 246 This course provides a study of the principles and concepts of community public health and dental health education. Emphasis is placed on dental epidemiology and statistical methods, community assessment, educational planning, implementation, and evaluation, scientific review of literature, and classroom presentation. (F)

DENT 252 Dental Hygiene IV

Prerequisite: DENT 240 2.0 minimum and DENT 242 2.0 minimum and DENT 244 2.0 minimum and DENT 246 2.0 minimum and DENT 248 2.0 minimum

Co-requisite Course(s): DENT 254 and DENT 256

This course is a continuation of information to prepare the student for advanced clinical practice. An in-depth study of dental hygiene care for patients with special needs is provided along with an examination of the dental hygienist's role in practice settings and employment considerations. Resume preparation, job interviewing, employment preparation, and an understanding of the law and professional ethics of dental hygien are covered. (Sp)

DENT 254 Clinical Dental Hygiene IV

Prerequisite: DENT 240 2.0 minimum and DENT 242 2.0 minimum and DENT 244 2.0 minimum and DENT 246 2.0 minimum and DENT 248 2.0 minimum

Co-requisite Course(s): DENT 252 and DENT 256

The clinical session combines dental hygiene skills with time management techniques essential for private practice. Comprehensive patient care includes assessment, diagnosis; treatment planning, implementation and evaluation of dental hygiene care, nonsurgical periodontal therapy, ultrasonic instrumentation, patient management, sealants, and comprehensive programs for control of dental diseases. The course consists of faculty supervised patient treatment in the clinic. (Sb)

DENT 256 Community Oral Health

Prerequisite: DENT 240 2.0 minimum and DENT 242 2.0 minimum and DENT 244 2.0 minimum and DENT 246 2.0 minimum and DENT 248 2.0 minimum

Co-requisite Course(s): DENT 252 and DENT 254

Students assess, plan, implement, and evaluate a community dental health project. Dental specialties and the dental hygienist's role in recognizing specialty care needed by patients is presented. Each student participates in a variety of community health projects and observing in dental specialty practices. (Sp)

ECON - Economics

ECON 120 Power, Authority and Exchange

Prerequisite: Reading Level 5

A comparative study of primitive and modern economic and political systems and theories. An emphasis will be placed on the evolution of economic and political organizations in human society. (F, Sp)

ECON 201 Principles of Economics-Micro

Prerequisite: Reading Level 5 and Math Level 3

This course is designed to develop objective consideration of economic issues and provides information and understanding of how resources are allocated by prices. Topics for study include price theory, consumer demand, cost and market structure, the role of government in the market, resource pricing, and international trade. (F, Sp, Su)

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ECON 202 Principles of Economics-Macro

Preractivite: ECON 201 1.0 minimum or Concurrently and Reading Level 5 and Math Level 3

This course addresses the theory of national income, employment and the price level, and government fiscal and monetary policies designed to influence aggregate economic activity. It also addresses exchange rates, international financial relationships, and economic growth. (F, Sp, Su)

ECON 213 U.S. Economic/Business History

Prerequisite: Reading Level 5

This course provides a survey of American economic and business history, change, and growth since the colonial period. Topics include an overview of business organization, the role of government and technological change, American industrial development, labor unions, and capitalization patterns. (F, Sp)

ECON 260 Comparative Economic Systems

Prerequisite: Reading Level 5

A comparison of different global economic systems and their impact on economic growth, distribution of income and opportunity, and economic treatment of women and minorities. Theories, philosophies, historical development and current practices will be examined. (F, Sp)

Election - Education

EOUC 201 Teacher Education Practicum

Prerequisite: Reading Level 5 and Writing Level 6

Beginning practical experience and training in the field for individual students. The student is placed with an educational institution over a semester. This class allows students to work with a teacher in a classroom setting receiving hands on experience in the school and classroom environment. (F, Sp)

EDUC 204 Educational Psychology

Prerequisite: Reading Level 5 and Writing Level 6 Investigates the contribution of psychology to education with emphasis on child growth and development, motivation, learning, measurement, and group dynamics that affect pupils' achievements. Specific programs, strategies, theory and research to improve instruction and learning will be explored. This class is designed for potential certified teachers or paraprofessionals. (F, Sp)

EDUC 220 Introduction to Education

Prerequisite: Reading Level 5 and Writing Level 6

An overview of the foundations, philosophy, history and organization of education as a human endeavor and an introduction to education as a teaching profession. Topics include legal concerns, issues and trends in American education, school governance and school finance. (F, Sp, Su)

EDUC 226 Reading in Elementary School

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: EDUC 220 and EDUC 204 (previously PSYC 204)

This course provides an introduction to concepts and issues in the reading development of elementary school children. Included are methods of reading instruction and assessment, and review of current school practices. Intended for teacher paraprofessionals, but may also be used for transfer to a teacher certification program. (F, Sp, Su)

EDUC 230 Intro to Special Education

Prerequisite: Reading Level 5 and Writing Level 6

An introduction to Special Education for potential elementary or secondary teachers and teacher paraprofessionais. The physical, social, emotional and cognitive characteristics of special needs students are defined. Emphasis is placed on educational interventions and assessment in grades K-12. Some school visits may be required. (F. Sp. Su)

EL CT - Electronics Technology

ELCT 100 Schematic Drawing

Prerequisite: Reading Level 5 and Department Approval A nonmathematical beginning course in electronics covering electronic component recognition, reading schematics, freehand and computer drawing of schematic diagrams, and relating schematic diagrams to electronic circuits. (F, Sp, Su)

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ELCT 131 Digital Basics

Prerequisite: Reading Level 5 and Department Approval

Introduces digital electronics microprocessor basics: Binary number system, basic gates, combination and sequential logic circuits, programming of a microprocessor using mnemonics and addressing modes. Laboratory work includes the analysis of digital circuits built on PC boards and the programming, debugging and interfacing of a MPU trainer to several IO devices. (F, Sp, Su)

ELCT 160 Logic Problems Analysis

Prerequisite: Reading Level 5 and Writing Level 2 and Math Level 4

Recommended: Math Level 5

A fundamental analysis course intended for students in the Computer Repair Certificate Program and the Computer Technician Associate Degree Program. Course topics include manipulation of formulas used in electronics, basic gate operation, truth tables, Boolean algebra, binary, octal and hexadecimal base number systems. (F, Su)

ELCT 151 Soldering/Desoldering

Prereguisite: Department Approval

A basic soldering course. Topics include soldering electronic components to printed circuit boards and surface mount soldering. Desoldering components using solder wick, vacuum desoldering tools and equipment and printed circuit board repair. Students assemble a digital multimeter as a final course project. (F, Sp, Su)

ELCT 170 Computer Repair Electronics I

Prerequisite: Reading Level 5 and Writing Level 2 and Math Level 4

Recommended: ELCT 160 or Math Level 5

A basic electronics course intended for students in the computer repair certificate and associate degree programs. This course begins with basic electricity concepts and discusses basic electricity, basic electronics, electric circuits, diodes, transistors, digital devices, and digital circuits. (F)

ELCT 171 Computer Repair Electronics II

Prerequisite: ELCT 170 2.0 minimum

A digital electronics and computer systems course intended for students in the computer repair certificate and associate degree programs. Course topics include electronic, magnetic and optical memory, microprocessors, I/O devices, computer system operation, and an introduction to data communications and LANs. (Sp)

ELCT 175 Computer Troubleshooting

Prerequisite: ELCT 171 2.0 minimum or Concurrently This is a troubleshooting and repair course intended for students in the computer repair certificate and computer technician associate degree programs. Course topics include basic troubleshooting techniques, unit and board swap computer troubleshooting, and computer preventive maintenance. (Sp)

ELCT 180 Computer Test Equipment I

Prerequisite: Reading Level 5 and Writing Level 2

A basic test equipment course intended for students in the Computer Repair Certificate Program and the Computer Technician Associate Degree Program. This course introduces the student to the operation of electronics test equipment including VOM, DMM, oscilloscopes, storage oscilloscopes and basic digital test equipment. (F)

ELCT 181 Computer Test Equipment II

Prerequisite: (ELCT 171 2.0 minimum or Concurrently) or (ELCT 131 2.0 minimum and ELCT 110 2.0 minimum)

Intended for students in the computer repair certificate and the computer technician associate degree programs. Topics include the computer POST test, software diagnostic programs, hardware diagnostic cards, and other computer troubleshooting equipment. (Sp)

work experience in the digital electronics field of study. (F, Sp, Su)

ELTE - Electrical Technology

ELTE 100 Electrical Safety Practices

Prerequisite: None

This course covers basic electrical safety practices in the home, electrical laboratory and in construction and industry. Included are state and federal standards and practices. This course is a prerequisite for, or to be taken concurrently with, all ELTE courses that have a lab. (F, Sp, Su)

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ELTE 110 Practical Electricity

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Prerequisite: ELTE 100 2.0 minimum or Concurrently and Reading Level 3 and Writing Level 2 and Math Level 3

This course introduces the student to electricity on a practical level. The student will learn to use meters to measure electrical quantities, do basic circuit calculations, install basic household electrical wiring and investigate the behavior of motors and transformers. Reviews electrical codes and standards. This course is also available in an open-entry self-paced, modularized format. (F, Sp, Su)

ELTE 111 Intro Industrial Automation

Prerequisite: Reading Level 3

This course provides a hands-on introduction to current manufacturing technology. Students will learn to use the MS/PC DOS computer including word processor, spreadsheet and operating system applications. Students will experience the use of industrial robots, programmable logic controllers, machine vision, computeraided design, discrete electronic components and statistical process control. (F, Sp, Su)

ELTE 112 Basic Wiring Installation

Prerequisite: ELTE 110 2.0 minimum or HVAC 110 2.0 minimum

This course covers installation of a variety of wiring systems in wood frame and masonry construction. Students will practice installing nonmetalic sheathed cable, flexible metal conduit, electrical metallic tubing and rigid conduit. (F, Sp, Su)

ELTE 121 Analyzing Electric Circuits

Prerequisite: ELTE 110 2.0 minimum and (MATH 050 2.0 minimum or Math Level 4)

This course utilizes concepts in basic algebra, vector algebra and trigonometry to selve DC and AC electric circuit problems. Topics will include units, Ohm's law, network analysis, series parallel and combination DC and AC circuits, inductance and capacitance. (F, Sp)

ELTE 122 Industrial Control Electronics

Prerequisite: ELTE 121 2.0 minimum and ELTE 111 2.0 minimum (previously ELTE 105)

This course introduces the student to solid-state circuitry used in industry. Students will study diodes, transistors, SCRs, triacs, optical isolators, transducers, power circuits, etc. Laboratory will include oscilloscope usage. The course also includes an introduction to Boolean algebra and digital circuits. (Sp)

ELTE 123 Motors and Transformers

Prerequisite: ELTE 121 2.0 minimum

This course begins with three-phase circuits, including three-phase power measurement. Contains practical introduction to single- and three-phase transformers, motors and alternators. Brief coverage of DC machines. (F)

ELTE 131 Intro to Machine Control

Prerequisite; ELTE 110 2.0 minimum

Covers relay logic and controls using industrial standards. Use of correct symbols and standard construction of wiring and ladder diagrams is emphasized. Laboratory exercises include wiring three-phase motor control circuits utilizing two- and three-wire control and machine control circuits utilizing limit and proximity switches, timers, relays, etc. (F, Sp)

ELTE 141 National Electrical Code I

Prerequisite: ELTE 110 2.0 minimum or HVAC 110 2.0 minimum An introductory course designed for individuals with little or no knowledge of the Electrical Code. Students will study the structure and scope of the National Electrical Code and learn how to locate often used code sections: Ohm's law, voltage drop, wire and conduit sizing and installation methods. (F, Sp)

ELTE 142 National Electrical Code II

Prerequisite: ELTE 141 2.0 minimum

This course is for individuals with field experience and basic electrical training who need a review for the State Journey Examination. Students will review the Code with focus on locating and interpreting the National Electrical Code. In addition to the NEC, State of Michigan electrical rules will be reviewed. (F, Sp)

ELTE 143 National Electrical Code III

Prerequisite: ELTE 142 2.0 minimum

For individuals with a journeyman electrician's license who need to review for the State Master's Exam. Students will cover the Code using the index method, discuss interpretation of the Code, study State of Michigan electrical and construction code rules and discuss topics appropriate to the Electrical Contractors Exam. (F)

ELTE 145 Electrical Prints for Building

Prerequisite: ELTE 141 2.0 minimum

Recommended: ELTE 121 2.0 minimum or Equivalent Covers construction prints emphasizing standard and nonstandard symbols and interpretation of prints. Uses the National Electrical Code to calculate branch circuit, feeder, motor circuit and service sizes. Other topics include uninterruptible power supplies, signaling and safety systems. (Sp)

ELTE 150 Electric Motor Maintenance

Prerequisite: ELTE 110 2.0 minimum or HVAC 110 2.0 minimum Students learn to diagnose and test electric motors. Students will learn to identify and repair common problems in motors using meters, test equipment and appropriate tools. An introduction to rewinding and metal working procedures is also included. (F, Sp)

ELTE 232 Industrial Control Design

Prerequisite: ELTE 131 2.0 minimum This course is a continuation of ELTE 131, covering more components and larger more complex machine control diagrams; including automation interlocking and automatic continuous cycling of machinery. Students will be taught to design the control circuits for more complex machines in conformance with industry standards. (Sp)

ELTE 240 Electrical Estimating

Prerequisite: ELTE 112 2.0 minimum and ELTE 145 2.0 minimum Basics of preparing accurate, competitive electrical estimates for the building trades. Topics include take-off procedure using electrical, mechanical and architectural prints; lighting design; labor and materials cost and evaluation techniques and specifications. Students should have wiring experience, practice in the use of NEC rules and electrical prints before enrolling. (F)

ELTE 260 Intro/Programmable Controllers

Prerequisite: ELTE 131 2.0 minimum

This course covers programmable logic controllers with focus on common operating principles. Topics include the capabilities, similarities and differences among controllers, programming (examine on/off, timers and counters) and connecting external devices to Allen-Bradley, Modicon and Omron. (F)

ELTE 261 Allen-Bradley PLC-5 Advanced

Prerequisite: ELTE 260 2.0 minimum This course covers programming and connections for Allen-Bradley PLC-5 controllers. Focus on math, subroutine, file, block transfer, sequencers, logic and bit manipulation instructions. Students will learn logic for machine control, programming and utilizing intelligent cards, ASCII, analog input/output and system documentation. (Sp)

ELTE 291 Project Lab

Prerequisite: Department Approval A guided study of topics of interest in electrical technology. The student will prepare a summary report of activities and demonstrate results of laboratory experiences. (F. Sp. Su)

EMSA - Emergency Medical Services

EMSA 100 First Aid and CPR

Prerequisite: None

Designed to provide the knowledge and skills necessary to respond to and treat emergency situations until professional medical help is obtained. First aid and CPR certificates issued upon successful completion. (F. Sp, Su)

EMSB - Emergency Medical Services Seminars

EMSB 102 CPR for Health Care Prof

Prerequisite: None

This seminar is designed for CPR instruction of health care providers and adheres to American Heart Association guidelines. Content includes one- and two-rescuer CPR, child and pediatric CPR, adult, child, pediatric foreign body airway obstruction, information about heart disease, risk factors, and physiology of the heart and lungs. (F, Sp, Su)

EMSB 103 CPR Recertification

Prerequisite: Department Approval

This seminar is designed for CPR instruction for individuals who have previously obtained instruction in the basics of cardiopulmonary resuscitation and foreign body airway obstruction. The participants must have a current provider card for CPR. The curriculum and testing consists of recertification techniques for CPR. (F, Sp. Su)



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and child CPR and foreign body airway obstruction for babysitters and parents would fall under this curriculum. (F, Sp, Su)

EMSB 107 First Aid/CPR Sem/ Daycre Prov	ť .	.5
Prerequisite: None		

This seminar is intended for daycare providers to meet the requirements of the Department of Social Services to maintain Daycare Licensure. It will provide eight hours of instruction in basic first aid and infant/child CPR with foreign body airway obstruction. (Su)

EMSB 110 First Aid and CPR Seminar

Prerequisite: None

This seminar offers adult CPR including airway obstruction and four hours of basic first aid. National Safety Council certification is given to those successfully completing both components. (F, Sp, Su)

EMSB 120 Self-Paced CPR Rirshr Hith Prv

Prerequisite: Department Approval

This self-paced course is designed to provide healthcare professionals with greater flexibility in renewing their CPR certification. This course adheres to the American Heart Association guidelines and will test the individual on one- and two-rescuar CPR, adult, child and infant CPR, and foreign body airway obstruction through the use of a computerized mannequin and laptop system. (F, Sp, Su)

EMTA - Emergency Medical Technology

EMTA 100 Medical First Responder

Prerequisite: None

This course will provide the student with the knowledge and skills necessary to manage ill or injured victims at the scene of an emergency until the arrival of ambulance personnel. Successful completion enables the student to apply for state licensure as a medical first responder. (F, Sp, Su)

EMTA 101 Basic EMT I

Prerequisite: Reading Level 5 and Writing Level 6 Co-requisite Course(s): EMTA 102

First in a sequence of five courses to prepare the student as a basic EMT. Emphasis is placed on didactic material including airway management, patient assessment, CPR soft lissue injuries, head, chest, and abdominal injuries, and proper use of equipment in the delivery of basic emergency care. (F, Sp, Su)

EMTA 102 Basic EMT II

Prerequisite: None

Co-requisite Course(s): EMTA 101

Second in a sequence of five courses to prepare the student as a Basic EMT. Emphasis is placed on practical skills including patient assessment, bandaging, splinting, backboarding, oxygen delivery equipment, CPR, and airway management in the delivery of basic emergency care. (F, Sp, Su)

EMTA 103 Basic EMT III

Prerequisite: EMTA 101 3.0 minimum and EMTA 102 3.0 minimum Co-requisite Course(s): EMTA 104 and EMTA 112

The third in a sequence of five courses to prepare the student as a Basic EMT. Emphasis is placed on didactic material including the recognition and management of environmental and medical emergencies; verbal, written and radio communications; triage, emergency childbirth; and pediatric emergencies. (F, Sp, Su)

EMTA 104 Basic EMT IV

Prerequisite: EMTA 101 3.0 minimum and EMTA 102 3.0 minimum Co-requisite Course(s): EMTA 103 and EMTA 1.12

The fourth course in a sequence of five to prepare the student as a Basic EMT. Emphasis is placed on the overall delivery of basic emergency care through simulated emergencies. Successful completion of this course and EMTA 101, EMTA 102, EMTA 103, & EMTA 112 enables the student to apply for licensing as a Basic EMT. (F, Sp, Su)

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Prerequisite: None

This is a course to provide the EMT with the knowledge and practical experience in the operation of an ambulance. The course will focus on safety, defensive driving techniques, and specialized driving maneuvers. (F, Sp)

EMTA 112 Basic EMT Clinical

Prerequisite: EMTA 101 3.0 minimum and EMTA 102 3.0 minimum

Co-requisite Course(s): EMTA 103 and EMTA 104 The fifth course in a sequence of five to prepare the student as a basic EMT. Includes required OSHA standards, hospital clinicals, ambulance clinicals, and a community service component. Classroom time enhances assessment, history taking skills, and report writing. (F, Sp, Su)

EMTA 114 Rescue/Extrication/Danger Situ

Prerequisite: None -

A course to provide EMS or rescue personnel with skills in light and heavy vehicle extrication, industrial rescue techniques, extrication from farm machinery, and other specialized rescue techniques. Emphasis is placed on patient and rescuer safety. (F, Sp)

EMTA 222 EMS Instructor Coordinator

Prerequisite: Department Approval

A Michigan Department of Consumer & Industry Services approved course for EMS personnel interested in becoming an instructor coordinator. Includes teaching and testing methods, lesson plan development, writing performance objectives, course administration, MDCIS application for course approval, and meeting state requirements. Student teaching required. (Su)

ENGL - English

ENGL 122 Writing: Literature and Ideas

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 8)

An alternative to WRIT 122, ENGL 122 introduces the students to various literary forms and develops analytical skills in reading, writing, and research techniques. Writing assignments begin with short essays and conclude with an extensive literary research paper. (F, Sp, Su)

ENGL 132 Honors Writing: Lit and Ideas

Prerequisite: WRIT 121 3.5 minimum or WRIT 131 3.5 minimum An alternative to WRIT 122. ENGL 132 is an introduction to various literary forms. In addition to the development of analytical reading and writing skills and research techniques leading to a literary research paper. (Same as ENGL 122 but taught on an advanced level.) (Sp)

ENGL 201 Introduction to Poetry

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: (WRIT 121 or WRIT 131) and ENGL 122

An introduction to the content, form, style, and technique of poetry; its structural types: metrical, blank, and free verse; its thematic types: lyric, narrative, and dramatic; and its effects or purposes. The course emphasizes poetry written in English but includes English translations of representative poetry from other languages and cultures. (F, Su)

ENGL 202 Introduction to Drama

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: (WRIT 121 or WRIT 131) and ENGL 122

Introduces drama and its literary techniques and conventions. Attention is given to principles and theory, but understanding of the plays is emphasized. Representative plays from Greek, European, English, and American dramatists. (Sp)

ENGL 203 Introduction to Prose

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: (WRIT 121 or WRIT 131) and ENGL 122

This course introduces students to selected prose genres that have evolved in cultural history. Students consider how different forms reflect the diverse functions of language in developing human societies. In addition to essays, novels, and short stories, works studied may include folk tales, epistles, prose poems, (auto)biographies, satires, or documentaries. (F)

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ENGL 205 The Power of Autobiography

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: (WRIT 121 or WRIT 131) and ENGL 122

Autobiographical writing; which includes letters, journals, and diaries, is the focus of this special seminar on prose literature. Works to be read chronicle the literary, artistic, historical, social, and political life transformations experienced by notable twentieth century figures. Course emphasis is on the power of the personal narrative as literature. (F)

ENGL 208 Children's Literature

Prerequisite: Reading Level 5 and Writing Level 6 Recommended: (WRIT 121 or WRIT 131) and ENGL 122

This course offers a survey of children's literature, from fairy tales to young adult novels. Students will be introduced to a variety of literary genres in classic and contemporary works. Students will experience the literature through writing, discussion, oral or dramatic presentations, and other means suitable to classroom practice. (So)

ENGL 211 World Literature I

Prerequisite: Reading Level 5 and Writing Level 6 Recommended: (WRIT 121 or WRIT 131) and ENGL 122

A selective survey of the literatures of major world cultures reflecting the diversity of the continents of Africa, the Americas, Asia, and Europe to approximately the 17th century. Explores the historical, ethnic, aesthetic, political, economic, and thematic elements of their respective cultures through narrative prose fiction, poetry, and drama. (F)

ENGL 212 World Literature II

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: (WRIT 121 or WRIT 131) and ENGL 122 A survey of the literatures of major cultures reflecting the diversity of the continents of Africa, the Americas, Asia, and Europe from approximately the 17th century

through the present. Explores the historical, ethnic, aesthetic, political, economic, and thematic elements of their cultures through narrative prose fiction, poetry, and drama. (Sp)

ENGL 220 Science Fiction

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: (WRIT 121 or WRIT 131) and ENGL 122

ENGL 220 is an introductory course which explores significant issues in science fiction. Novels and/or stories will be the main focus, although works from other media also may be studied. The course's emphasis transcends entertainment to include understanding, interpretation, and analysis as well. (F)

ENGL 240 The Film as Art

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: (WRIT 121 or WRIT 131) and ENGL 122

This course will introduce film as an art form capable of making perceptive comments on our civilization. Thematic analysis of 12 to 15 motion pictures of recognized merit will emphasize the film maker's visual and aural techniques as well as conventions more commonly associated with literature. (Sp. Su)

ENGL 245 Popular Culture and Mass Media

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: (WRIT 121 or WRIT 131) and ENGL 122

A study of the popular culture distributed by mass media (newspapers, radio, film, television, magazines, and music videos) and how the media and popular culture reflect and shape our cultural beliefs. Extensive use of multimedia, (F)

ENGL 255 American Literature I

Prerequisite: Reading Level 5 and Writing Level 6 Recommended: (WRIT 121 or WRIT 131) and ENGL 122

Provides a perspective on the evolution of traditional American literature beginning with the writings of the first European explorers and Native American oral tradition. Features selected essays, autobiographical writings, poems, fiction, and drama from the mid-15th century to 1865, including the work of women and ethnic minorities, which have contributed to American thought. (F)

ENGL 256 American Literature II

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: (WRIT 121 or WRIT 131) and ENGL 122

Provides a perspective on the further development of traditional American literature from 1865 (the Realism period) to contemporary literature. Features selected essays, autobiographical writings, poems, flotion, and drama from the end of the Civil War to the literature of the late 12th century, including the work of women and ethnic minorities, which have profoundly shaped American literature. (Sp)

ENGL 260 African-American Literature

Prerequisite: Reading Level*5 and Writing Level 6

Recommended: (WRIT 121 or WRIT 131) and ENGL 122 This course introduces the African-American literary tradition as seen in the literature of the Americas, including the Caribbean. Selections explore the black experience in autobiography, essay, fiction, poetry, and drama. Themes of slavery, colonialism, and the Black Diaspora are discussed. Reading selections include the Harlem Renaissance and contemporary texts. (Sb)

ENGL 265 Japanese Literature

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: (WRIT 121 or WRIT 131) and ENGL 122

Arranged chronologically, this course draws heavily on many different genres of Japanese literature. The basis for selection of works to be read rests on the insight that each work gives to the Japanese society which produced it, and upon its universal characteristics. (Sp)

ENGL 266 British Literature I

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: (WRIT 121 or WRIT 131) and ENGL 122

British Literature I surveys the poetry, prose, and drama of the major British writers from Chaucer (14th Century) to the Satirists (18th Century). The works are selected to reflect the attitudes and values of British culture and the perception of the world from a British point of view. (F)

ENGL 267 British Literature II

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: (WRIT 121 or WRIT 131) and ENGL 122

British Literature II surveys the poetry, prose, and drama of the major British writers from the Romantics (19th Century) to late 20th Century. The works are selected to reflect the attitudes and values of British culture and the perception of the world from a British point of view. (Sp)

ENGL 270 Literature by Women

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: (WRIT 121 or WRIT 131) and ENGL*122

A study of selected works by English and North American women writers. Designed to increase understanding of the themes, images, issues, and modes of expression of women writers. (Sp)

ENGL 290 Shakespeare

Prerequisite: Reading Level 5 and Writing Level 6 Recommended: (WRIT 121 or WRIT 131) and ENGL 122

Students will read, discuss and write about selected comedies, histories, tragedies and romances written by Shakespeare. To better understand how Shakespeare's work continues to influence literature and the arts, the class may also screen film versions of modern re-tellings of Shakespearean plots. (Sp)

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ENGL 295 Independent Study in English

Prerequisite: Department Approval

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (F, Sp, Su)

ENRI - Enrichment

ENRI 105 Life Learning Portfolio

Prerequisite: Reading Level 5 and Writing Level 6 and Department Approval This course provides the opportunity for students to create a portfolio to document learning acquired through work, volunteer, and/or life employment experience. The finished portfolio can then be submitted to the LCC Registrar's Office to request college credit for knowledge and skill-zlearning outcomes—that correspond to LCC courses. (Sp)

ENVR - Environmental Science

ENVR 121 Environmental Rules and Regs

Prerequisite: Reading Level 5 and Writing Level 4

Overview of federal and state environmental regulations and agency rules that regulate discharges to air, water, and land. Laws are examined with respect to the reason the regulation is needed, what the law does, and how it does it. The course is designed for students pursuing carears as environmental technicians. (Sp)

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ENGL 205 – ENVR 121 www.lcc.edu

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ENVR 122 Enviro Sampl & Instrumentation

Prerequisite: Reading Level 5 and Writing Level 4 and Math Level 5

An introduction to sampling and monitoring procedures and instrumentation to accomplish a task. Students will learn to take samples from ground water, surface water, air, and soil. This course is designed for students pursuing careers in biological science, but emphasizes the skills used by environmental technicians. (F)

ENVR 131 Industrial Process Safety

Prerequisite: Reading Level 5 and Writing Level 4

Introduction to general manufacturing processes with emphasis on waste reduction and pollution prevention strategies. Case studies of basic processes, materials flow, worker health and safety, waste reduction, and pollution prevention will be examined. Fundamentals of toxicology, epidemiology, and environmental health will be used in understanding workplace safety and health issues. (Sp)

ESLP - English as a Second Language

ESLP 014 Integrated Skills I

Prerequisite: Placement Test

Designed for high beginning level non-native speakers of English who have basic literacy skills. Emphasis on reading and vocabulary skill-building activities designed to prepare students for future academic success. Integrated skills format allows reading, grammar, speaking/listening, and writing activities to be combined using themes. (F, Sp)

ESLP 015 ESL Writing Skills I

Prerequisite: Placement Test

Prerequisite: Placement Test

Designed for high beginning level non-native speakers of English who want to improve their ability to write paragraphs. Students learn simple and progressive verb forms in the present, past and future tenses. A process approach to writing is used and students are introduced to basic word processing skills. (F, Sp)

ESLP 016 Communication Skills I

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Designed for high beginning level non-native speakers of English. Students build awareness of American English pronunciation and focus on troublesome pronunciation features; students practice speaking English and improve basic listening comprehension in a variety of contexts, including academic, social, and professional settings. (F, Sp)

ESLP 024 Integrated Skills II

Prerequisite: ESLP 011 2.5 minimum or ESLP 014 2.5 minimum or Placement Test

Low intermediate level integrated skills course or non-native speakers of English. Emphasis is on reading and vocabulary skill-building activities designed to prepare students for future academic success. An integrated skills format allows reading, grammar, speaking/listening, and writing activities to be combined using themes. (F, Sp)

ESLP 025 ESL Writing Skills II

Prerequisite: ESLP 012 2.5 minimum or ESLP 015 2.5 minimum or Placement Test

Designed for low intermediate level non-native speakers of English. Students progress from writing paragraphs to writing academic style essays and use basic word processing skills. Grammatical structures worked on include the simple and perfect verb tenses, sentence combining, and recognizing sentence fragments. A process approach to writing is used. (F, Sp)

ESLP 026 Communication Skills II

Prerequisite: ESLP 013 2.0 minimum or ESLP 016 2.0 minimum or Placement Test

Designed for low intermediate level non-native speakers of English. Instruction focuses on the features of American English pronunciation, as well as improving listening comprehension and oral communication through functional situations, such as role plays, discussions, and informal reports. (F, Sp)

ESLP 034 Integrated Skills III

Prerequisite: ESLP 021 2.5 minimum or ESLP 024 2,5 minimum or Placement

Test Designed for high intermediate level non-native speakers of English. Emphasis is on reading and vocabulary skill-building activities designed to prepare students for future academic success. An integrated skills format allows reading, grammar, speaking/listening, and writing activities to be combined using themes. (F, Sp)

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ESLP 035 ESL Writing Skills III

Prerequisite: ESLP 022 2.5 minimum or ESLP 025 2.5 minimum or Placement Test

Designed for high intermediate level non-native speakers of English. Students write essays using a process approach to writing. Grammatical structures worked on include parts of speech, vocabulary usage, compound and complex sentences, and correct usage of all verb tenses, including perfect tenses. Students use word processing skills. (F, Sp)

ESLP 036 Communication Skills III

Prerequisite: ESLP 023 2.0 minimum or ESLP 026 2.0 minimum or Placement Test

Designed for high intermediate level non-native speakers of English. Instruction focuses on improving listening comprehension and oral communication skills through group discussions, oral presentations, and projects. Grammat instruction is integrated into the themes for each unit. (F_i Sp)

ESLP 100 Computer Literacy ESL Students

Prerequisite: None

Recommended: ESLP 025, 035, or 115 Concurrently or Equivalent

For English as a Second Language students with little or no previous experience using computers. Students will learn vocabulary for the parts of the computer and for performing basic functions. By the end of the course, students will be able to perform basic word processing skills. (F, Sp, Su)

ESLP 103 Focus on Pronunciation

Prerequisite: ESLP 033 2.0 minimum or ESLP 036 2.0 minimum or Placement Test

This course is designed for advanced level non-native speakers of English who wish to improve the intelligibility of their speech. Students will have an individual speech profile. Emphasis will be on building awareness of and practicing American English stress, intonation, and rhythm patterns, and clear pronunciation of individual sounds. (F, Sp, Su)

ESLP 110 Bridge to Academic Reading

Prerequisite: ESLP 031 2.5 minimum or ESLP 034 2.5 minimum or Placement Test

Designed for low-advanced level non-native speakers of English needing to prepare for reading college-level texts. Emphasis on building teamwork skills, vocabulary, and developing reading strategies and skills to improve overall comprehension. A basic skill reading level 3 is granted upon successful completion of this course. (F, Sp)

ESLP 113 Academic Listening/Notetaking

Prerequisite: ESLP 033 2.0 minimum or ESLP 036 2.0 minimum or Placement Test

This course is designed for advanced level non-native speakers of English who wish to pursue an academic degree or transfer program. Emphasis will be on improving overall listening comprehension, identifying the organizational structure of academic lectures, taking effective notes from a variety of sources, and improving vocabulary. (F, Sp)

ESLP 114 Academic Reading Skills

Prerequisite: ESLP 110 3.0 minimum or Reading Level 3

Designed to prepare advanced level non-native speakers of English for future academic success. Emphasis is on vocabulary building and developing reading strategles and skills, including critical reading for efficient processing of general academic texts. Basic skills reading level 5 is granted upon successful completion of this course. (F, Sp, Su)

ESLP 115 Composition Academic Purposes

Prerequisite: ESLP 032 2.5 minimum or ESLP 035 2.5 minimum or Placement Test

Designed to prepare advanced level non-native speakers of English for future academic success. Students use a process approach to writing to produce various types of essays using a variety of complex sentences and grammatical structures. Basic skills writing level of 4 is granted upon successful completion of this course. (F, Sp. Su)

FASHEFashion

FASH 120 Fashion Industry

Prerequisite: None

This course is an introduction to the fashion industry including apparel, textiles, manufacturing, global marketing, merchandising, retailing and eCommerce. (F, Sp)

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FASH 150 Apparel and Textile Design prerequisite: None

Recommended: INTR 185 and (CNCP 101 or CISB 100 or CABS 195) or Concurrently or Equivalent

Students will study the development and production of textile and apparel designs and patterns via selected computer-software packages. Implications for use in the textile and apparel industry will be discussed. (F, Sp)

FILM - Film Production and Direction

FILM 118 Film Production I

Prerequisite: None

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Introduces storytelling practices using moving pictures. Students will learn to plan and produce short movies, and develop basic skills in plot structure, pre-production, directing, staging scenes, videography, cinematography, non-linear computer editing, traditional film editing, and audience evaluation. (F, Sp, Su)

FILM 203 Topics in Film/Animation

Prerequisite: None

Provides students with basic photographic skills, an opportunity for intensive study in selected aspects of motion picture production, or multimedia production, (F, Sp, Su)

FILM 220 Screenwriting

Prerequisite: WRIT 121 2.0 minimum or Writing Level 8

Recommended: FILM 118

An introductory course in screenwriting. Students will learn the structure and format of screenplays, including plot development and creation of well-built characters. Real-life considerations of script marketing and relevant practices will also be covered. Those wishing to do advanced work may take an additional semester for credit. (F, Sp)

FILM 226 Film Production II

Prerequisite: FILM 118 2.0 minimum or IMAG 118 2.0 minimum or MTEC 152 2.0 minimum

This is an intermediate-level course that exposes the student to advanced storytelling practices using sound and images. Hands-on production exercises help the student to develop skills in script writing, storyboarding, production planning, photography, animation, editing, and sound track production. Emphasis is placed on Avid nonlinear editing techniques. (F, Sp)

FILM 227 Film Production III

Prerequisite: FILM 118 2.0 minimum or IMAG 118 2.0 minimum

Storytelling practices emphasizing dialog. Hands-on production exercises develop skills in script writing, production planning, sync sound recording and editing, and working with actors and crew members. Students work individually and as group members, and apply critical thinking and problem-solving processes to produce effective communications programs. (Sp)

FILM 281 Motion Picture Internship

Prerequisite: (FILM 226 2.0 minimum or IMAG 226 2.0 minimum) and (FILM 227 2.0 minimum or IMAG 227 2.0 minimum)

Restriction: Motion Picture Production and Motion Picture Direction Majors An off-campus field study. Students will gain pre-career experience by working in a motion picture production environment under the supervision of a professional producer or technician. Regularly scheduled progress reports will be given and discussed with a supervising faculty member. Students work a minimum of 160 hours per semester. (F, Sp, Su)

FILM 290 Motion Picture Portfolio

Prerequisite: (FILM 226 2.0 minimum or IMAG 226 2.0 minimum) and (FILM 227 2.0 minimum or IMAG 227 2.0 minimum)

Restriction: Motion Picture Production and Motion Picture Direction Majors The student will produce a motion picture, demonstrating technical and creative proficiency, under instructor supervision, suitable for presentation for the purpose of securing employment. This course is intended to be the capstone course in the Motion Picture Program. (F, Sp, Su)

FIRE - Fire Science

FIRE 100 Prin of Emergency Services

Prerequisite: Reading Level 5 and Writing Level 4

This course provides an overview to fire protection; career opportunities in fire protection and related fields: philosophy and history of fire protection/service; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; and fire service normenclature. (F, Sp)

FIRE 101 MI F.F.T.C. Basic Fire Lev I

Prerequisite: Admission to Fire Academy and Reading Level 5 and Writing Level 4

Co-requisite Course(s): FIRE 102 and PEFT 114

Level I is basic training required for all firefighters in the State of Michigan Training is certified by the Michigan Fire Fighters Training Council and includes the basics of fire suppression, apparatus operation, life safety, and physical fitness. (F, Sp)

FIRE 102 MI F.F.T.C. Basic Fire Lev II

Prerequisite: Admission to Fire Academy and Reading Level 5 and Writing Level 4

Co-requisite Course(s): FIRE 101 and PFFT 114

Level II is basic training required for all career firefighters in the State of Michigan. Training is certified by the Michigan Fire Fighter's Training Council and includes advanced fire suppression, aerial operation, life safety, and physical fitness. (F, Sp)

FIRE 104 Fire Behavior & Combustion

Prerequisite: FIRE 100 2.0 minimum or Concurrently This course explores the theories and fundamentals of how and why fires start, spread, and how they are controlled. (Sp)

FIRE 105 Fire/Hydraulics/Water Supply

Prerequisite: FIRE 100 2.0 minimum and (MATH 107.2.0 minimum or Math Level 5)

This course provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems. (F)

FIRE 110 Fire Prevention

Prerequisite: (FIRE 100 2.0 minimum or Concurrently) or (FIRE 101 2.0 minimum and FIRE 102 2.0 minimum)

This course provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education. (F)

FIRE 112 Occup Health & Safety/Fire Svc

Prerequisite: FIRE 104 2.0 minimum or Concurrently

This course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk evaluation and control procedures for fire stations, training sites, emergency vehicles, and emergency situations involving fire, EMS, hazardous materials, and technical rescue. (F)

FIRE 115 Bldg Construction/Fire Protect

Prerequisite: (FIRE 100 2.0 minimum or Concurrently) or (FIRE 101 2.0 minimum and FIRE 102 2.0 minimum)

This course provides the components of building construction that relate to fire and life safety. The focus of this course is on firefighter safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. (F)

FIRE 122 Hazardous Materials Chem I

Prerequisite; CHEM 135 2.0 minimum and (FIRE 104 2.0 minimum or Concurrently)

This course covers basic fire chemistry relating to the categories of hazardous materials including problems with recognition, reactivity, and health encountered by firefighters. (Sp)

FIRE 125 Fire Protection Systems.

Prerequisite: FIRE 105 2.0 minimum (previously FIRE 130) This course provides information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkles systems, water supply for fire contection, and contable fire.

of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection and portable fire extinguishers. (Sp)

FIRE 150 Strategy and Tactics

Prerequisite: FIRE 104 2.0 minimum

This course provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground. (Sp)



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FIRE 210 Fire Investigation I 4	FREN 121 Elementary French I
Prerequisite: FIRE 104 2.0 minimum or Concurrently This course is intended to provide the student with the fundamentals and techni- cal knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the firesetter, and types of fire causes. (Sp)	Prerequisite: Reading Level 5 Introductory course open to students with little or no kn Students are introduced to basic patterns and structures of Fr to develop listening, speaking, reading, and writing skills. En contemporary vocabulary, essentials of grammar, and pronur
FIRE 215 Fire Investigation II 3	FREN 122 Elementary French II
Prerequisite: FIRE 210 2.0 minimum This course is intended to provide the student with advanced technical knowledge of rule of law, fire scene analysis, fire behavior, evidence collection and preserva- tion, scene documentation, case preparation and testifying. (F)	Prerequisite: FREN 121 1.5 minimum and Reading Level 5 Second course of a two-semester sequence in Elementary Fr more complex structures and patterns, and more active use o French. (Sp)
FIRE 220 Hazardous Materials/Fire Ser 4	FREN 201 Intermediate French I
Prerequisite: FIRE 104 2.0 minimum and CHEM 135 2.0 minimum This course explores the concepts and methods of detection, control, and mitiga- tion of hazardous materials incidents. Contains specific elements of NFPA 471, 472 and OSHA CFR 1041.120. (Sp) FIRE 245 Fire Officer I & II 4	Prerequisite: FREN 122 1.5 minimum and Reading Level 5 First course of a two-semester sequence. Course provide vocabulary building, listening comprehension, composition w sions, and readings of literary and cultural texts, short storie for a better understanding of the francophone world. (F)
Prereguisite: FIRE 150 2.0 minimum	FREN 202 Intermediate French II
This course will introduce the firefighter to the duties assigned to company level officers. Topics addressed in this course include budgeting, planning, public relations, personnel management, communications, legal responsibilities, and safety at the company level. (F) FIRE 250 Fire Administration I 4	Prerequisite: FREN 201 1.5 minimum and Reading Level 5 Second course of a two-semester sequence. Course includ complex grammar topics, readings of cultural and literary tex newspaper articles for a better understanding of the francopt will improve fluency through listening-comprehension, writing the target language. (Sp)
Prerequisite: FIRE 150 2.0 minimum This course introduces the student to the organization and management of a fire	GEOG - Geography
department and the relationship of government agencies to the fire service. Emphasis is placed on fire service leadership from the perspective of the company officer. (Sp)	GEOG 120 Introduction to Geography Prerequisite: Reading Level 5
	Recommended: WRIT 121
FIRE 255 Fire Officer III & IV 4 Prerequisite: (FIRE 245 2.0 minimum and FIRE 250 2.0 minimum) or Concurrently 6 This course provides the basic tools for analyzing and evaluating budgets, pro- grams, policies, personnel and management systems within the fire service orga- nization. Data interpretation and planning are major elements addressed in this course. Enhancement of fire service leadership decision-making capabilities is the primary focus of this course. (Sp)	An introductory course designed to provide contemporary g mapping techniques to study the interaction between peop environment. Selected topics include soils, land forms, water, etation, agriculture, urbanization, demographic patterns and (F) GEOG 121 Physical Geography Prerequisite: Reading Level 5
EIDE 260 Joseph Appents/Eiro Spruige	Recommended: Word Software Experience
FIRE 260 Legal Aspects/Fire Service 4 Prerequisite: FIRE 104 2.0 minimum 4 This course introduces the federal, state, and local laws that regulate emergency services, national standards which influence emergency services, standard of care, tort and liability. Relevant court cases are also reviewed. (F) 4	Emphasizes landforms, natural vegetation, weather and cli soils. Offers an extensive study of these forces, noting their and their effects on human life. Includes computer mapping analysis, and air-photo interpretation. (F, Sp, Su)
FLNG - Foreign Language	GEOG 200 World Regional Geography
FLNG 295 Ind Study in Foreign Language 1-4 Prerequisite: Department Approval	Prerequisite: Reading Level 5 This course describes and analyzes human relationships with tural environment and examines the physical and cultural a regions of the world. International Interdependency is examin
An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the	awareness. (F, Sp, Su) GEOG 202 Geography of North America
Department and supervising instructor prior to registration: (F, Sp, Su)	Prerequisite: Reading Level 5
FREN - French	A study of the human and physical aspects of North Ame identify some of the factors that influence the quality of life a
FREN 115 Conversational French I 3	each of the various subregions. (Sp)
Prerequisite: None	GEOG 203 Economic Geography

Students learn how to communicate orally in everyday life situations and in travel abroad. Emphasis is on the development of ability to communicate in French. French culture is explored. (F, Sp, Su)

FREN 116 Conversational French II 3

Prereguisite: None

Recommended: FREN 115 or Equivalent

Continuation of FREN 115. Designed for advanced beginners who wish to improve their speaking ability in the context of daily living. Emphasis is placed on contemporary vocabulary, essentials of grammar, and pronunciation through class discussions conducted in French. Students will continue to explore different aspects of life and culture in the francophone world. (F, Sp, Su)

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owledge of French. rench, enabling them nphasis is placed on nciation. (F, Sp, Su)

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eographic ideas and le and their physical climate, natural vegresource utilization.

imatic elements, and ecological principles techniques, Isnd site

h the natural and culaspects of the major ied to promote global

rica. This course will and give character to

Prerequisite: Reading Level 5

The study of the distribution of economic activities throughout the world. Emphasizes agriculture, resources, population, industry, urbanization, and trade. (Sp)

GEOG 295 Independent Study in Geography 1-4

Prerequisite: Department Approval. An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (F. Sp, Su)

GEOL - Geology

GEOL 221 Physical Geology

Prerequisite: Reading Level 5 and Writing Level 4 and Math Level 4 This course investigates the dynamic physical earth using a cause-effect theme, and emphasizes relationships of geologic cycles (tectonic/hydrologic) to modifications of earth's crust (e.g., volcanism, mountain building, rivers, glaciers) with introduction to environmental topics and earth resources. Laboratory includes mineral and rock identification, topographic and geologic map interpretation, and plate tectonics exercises. (F)

GEOL 222 Historical Geology

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Prerequisite: Reading Level 5 and Writing Level 4 and Math Level 4 Plate tectonics is used to integrate crustal and organic evolution in the dynamic global system. Includes methods of geologic inquiry and critical evaluation of evidence. Laboratory stresses interpretation of the rock and fossil records, reconstruction of past ecosystems, geologic maps, and plate tectonics' influence on the environment. (Sp)

GEOL 230 Environmental Geology

Prerequisite: Reading Level 5 and Writing Level 4 and Math Level 4 Concepts of physical geology are applied to human interaction with the environment. Geologic resources (e.g., minerals, energy, and water) and hazards (e.g., earthquakes, landslides, and flooding) are explored. Laboratory includes rock and

mineral identification, map reading and interpretation, evaluation of land use alternatives, and problem-solving activities related to environmental issues. (F)

GERO - Gerontology

GERO 100 Introduction to Human Aging

Prerequisite: Reading Level 5 and Writing Level 4

This course provides a basic orientation to the field of gerontology with emphasis on social aspects: demography, physiology, psychology, sociology, economics, environment, death and dying, and community and government programs, (F, Sp)

GERO 101 Programs/Services for Aging

Prerequisite: None

Recommended: GERO 100

This course provides a description of the organization and functions of the aging services network, its relationship to the broader human services system, and how the services worker can use or develop community resources for the benefit of older adults. (F)

GERO 131	Pin for Older Adlts w/Dev Dis	

Prerequisite: None

This course presents an overview of the older adult with developmental disabilities including characteristics, demographics, public policy issues, and functional assessment. Michigan program initiatives are discussed and case studies are presented. (F, Sp)

GERO 164 Med & Alcohol Use/Older Adults

Prerequisite: None

This course examines medication and alcohol use among older adults including prescription and nonprescription medicines, side effects, drug interactions, and strategies for using medicines wisely. Students learn to identify a substance abuse situation and how to make appropriate referrals. (F, Sp)

GERO 165 Dementia: Concepts and Causes

Prerequisite: None

This course is an introduction to current concepts of dementia (Alzheimer's disease and related disorders) in older persons. It provides an overview of social, physical, psychological, and environmental factors associated with dementia. Relationships to depression, techniques for communicating with older persons with dementia, family dynamics, and community resources are discussed. (F, Sp)

GERO 169 Legal Rights of Older Adults

Prerequisite: None This course focuses upon issues such as guardianship, conservatorship, power of attorney, the living will, joint tenancy, nursing home residency, and civil commitment, including actual and perceived choices a person has as aging and illness occur. (F, Sp)

GERO 170 Depression: Recog & Treatment Prerequisite: None

This course provides an examination of depression in later life. Symptoms, causes, "masks," diagnosis, and assessment of depression are introduced, including information on distinctions between depression and dementia. Basic techniques and guidelines for working with depressed older persons are presented. (F, Sp)

This course provides an introduction to techniques for working with older adults with Alzheimer's disease and related disorders. The psychosocial needs of individuals and their families are a primary focus. Communication techniques, programming approaches, handling problem behaviors, a task breakdown approach, environmental adaptations, and role of the family are discussed. (F, Sp)

GERO 173 Activ: Older Adlts w/Alzheim

Prereguisite: None

This course provides an overview of planning principles and processes effective in designing meaningful activities for older adults with Alzheimer's disease and related disorders. Practice opportunities are included. (F, Sp)

GERO 191 Seminar: Special Subjects

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Prerequisite: None

This course consists of a series of seminars which address the most current issues in the field of gerontology. The seminars are designed to provide the most up-to-date information on selected, high-interest subjects concerning human aging, (F, Sp, Su)

GERO 203 Physical/Mental Health Aging

Prerequisite: GERO 100 2.5 minimum or Concurrently

Physical and mental health of older adults is examined from an applied perspective for human services providers. Topics include normal and pathological changes; family and social factors; skills and "adaptations for maintaining good physical health; assessment; intervention and skills for helping older adults access appropriate treatment in the health care system. (Sp) "

GRET - Geographic Information Systems

GRET 203 Beginning MicroStation

Prerequisite: None

Hecommended: LAND 282 or Basic CAD Experience This entry-level, computer-aided design and drafting course uses MicroStation software on an Intergraph workstation or PC. Students will create 2-D drawings using basic graphic tools and procedures. (F, Sp)

GRET 204 MicroStation Graphic Environ

Prerequisite: GRET 203 2.0 minimum This course explores the MicroStation graphic environment using the Intergraph Workstation. The analysis package, MGA, will be utilized as well. The development of a prototype Geographic Information System will be a highlight of this course. (Sp)

GRET 205 Principles Geographic Info Sys

Prerequisite: None

This course describes the components of a basic GIS and how they are assembled. Requisition of data, maps, and other information used to build a database will be highlighted. A basic pilot project will be demonstrated step-by-step through various applications in GIS. (F, Sp, Su)

GRET 210 Global Positioning Systems

Prerequisite: None

This course covers the basic principles necessary to set up, operate, and run a Global Positioning System (GPS) receiving station, as well as collect information with a receiver. Data collection will be incorporated into a computer database program. The information link with Geographic Information Systems (GIS) and the use of GPS in GIS will be demonstrated. (F, Sp)

GRET 211 Geomedia-Internet GIS

Prerequisite: None

This course covers the basics of computer mapping systems and how they relate to computer design, graphics, and GIS. C-Map, Map Info., and Mapping Office will be presented. Students will produce a variety of maps as they relate to daily activities, land planning, environmental geography, and information systems. (Sp)

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with a D and other advanced agoes of this computer-added rating and asign The student will beam additional method in the package. Abaics index additional additionadditional additionaddited additional addited additional additional	WWW.ICC.CUU		COIII	
This course is an advanced application of the MicroStation Software and density and design packapa. A basic understationing and/or beginning MicroStation class is necessary for success in this class. (Sp) GRET 25 Hydrological Systems This course will cover the variable application of underse resources as they perfain to the geographic information system evidenmental research and development will be emphasized. The evaluation: and/or and the technological discuss the inportant classifications in CG GRET 23 Landroms.Soft Systems in GG Prorequisite: None This course will cover the basic advances the technological discuss and performance advances the technological discuss the inportant classifications of a discusse discusse will excern the basic advances the technological discuss the important classifications of a discusse discusse explaines in the GIS performance and development will be inpolationed. (F) GRET 232 Environmental resources (F) GRET 233 Environmental resources (F) GRET 234 Contrography in GIS Prorequisite: None This course will cover the basic adsorder most ond private explores of discusse discusse advances the technological discuss the important classifications of a discusse discusse advances and compto maximum explores and be indepleted additional model and private. (Sc) GRET 234 Contography in GIS Prorequisite: None This course will cover the basic aspectro of environmental resources and and set systems. The activate will show to ready private, (Sc) GRET 234 Contography in GIS Prorequisite: None This course will cover the components of Maximum explores and bio discussed for maximum explores and bio discusses will be the indepleted. (Sc) GRET 234 Contography in GIS Prorequisite: None This course will cover the components of Maximum explores and bio discusses will be advanced and private. (Sc) GRET 234 Contography in GIS Prorequisite: None This course will cover the components of Maximum explores and bio dis advances will be advanced and private. (Sc) GRE		GRET 256 Advanced ARC/Info	GRET 213 Advanced MicroStation 3	
Prerequisite: None Prerequisite: Selection of the selection of	acquired in the beginning ARC/INFO clas lules and advanced application of module will also develop projects using data set	This course advances the techniques acquired in the beginning ARC/INF The student will learn additional modules and advanced application of such as GRID and TIN. The student will also develop projects using da Students will develop a complete GIS project utilizing the full ARC/INFO.	This course is an advanced application of the MicroStation Software and deals with 3-D and other advanced aspects of this computer-aided drafting and design package. A basic understanding and/or beginning MicroStation class is necessary	
GRET 221 Landroma/Soil Systems in GIS 3 Prerequisite: None This ourse will discuss the important classifications of landform and soil systems. The relevance of these systems in the GIS environment will be highlighted. The importance of these systems in the IdGrandle use. (and planning discussed these systems in the IdGrandle use. (and planning discussed. (Sp) GRET 223 Environmental Resource Mgmt 3 Prerequisite: None This ourse will cover the broad spectrum of environmental resources such and planning discussed. (Sp) GRET 240 Cartography in GIS 3 Prerequisite: None The basic principles. (Interton, and origins of maps will also be covered. (F) GRET 241 Remote Sens/AirPhoto Interpret 3 Prerequisite: None This course mining and discussed. The student will cover the date collected in this method. The current technology and GIS relations, first portsen in the identification. Specification deals are specification and gate structure of a enal photography dist, how it is collected, and the ability to analyze maps recated from the data collected in this mathed. The current technology and GIS relations, first, Sp. Su) GRET 243 GIS/GPS Field Systems 3 Prerequisite: None This course will cover the downlopment of skills necessary for basic interpretations (F, Sp. Su) GRET 243 GIS/GPS Field Systems 3 Prerequisite: None The compasition structure stepologically-structured files form deagon files for use in the solating a	n ware extensions to the ArcView packag ands for the various ArcView extension extensions will be highlighted. A GIS proje rious software packages. (Sp)	This course will cover the basic software extensions to the ArcView p Students will learn the basic commands for the various ArcView ext Spatial analysis and network analysis extensions will be highlighted. A GIS will be completed utilizing all of the various software packages. (Sp)	Prerequisite: None This course will cover the various aspects of water resources as they pertain to the geographic information system environments. Water systems, natural and man-made, will be emphasized. The evaluation, analysis, and environmental impacts of various water features as they pertain to environmental research and	
GRET 223 Environmental Resource Mgmt 3 Prerequisite: None This course specifically deals with all obst present and future. Project application projection and their impact and management in current computer information systems. Resources in the land planning disciplines will be highlighted as to their function in the present environmental resource, Sp. GRET 240 Cartography in GIS 3 Prerequisite: None 3 The basic principles, functions, and origins of maps will be discussed. The student will construct various types of maps. Will also be covered. (F) GRET 241 Remote Sens/AirPhoto Interpret GRET 241 Remote Sens/AirPhoto Interpret 3 Prerequisite: None GRET 243 ORACLE/Geographic Into Sys This course will cover the component of skills necessary for basic interpretation of aerial photography data, how it is collected, and the ability to analyze maps created from the data collected in this method. The current technology and GIS collections. This is a fands-on computer course. Sample databases will be defined in current dechnology and GIS collections. This is and and so the origit course state and photography data, how this collected, and the ability to analyze maps created from the data collected in this method. The current technology and GIS collections. This is and and coll computer course. Sample databases for GIS applications. This is and and con computer course. Sample databases for GIS applications. This is and and collected in the samples to design files for use in a two-semester sequed form systems and withing. Societ Course of a two-semester sequed for the phosing maps will also over system quary sets and answers to questions projective. The fut	n or GRET 255 1.0 minimum iques, methods, and processes involved nt GIS software packages will be explore	Prerequisite: GRET 204 1.0 minimum or GRET 255 1.0 minimum This course expands upon the techniques, methods, and processes inv developing a full GIS program. Different GIS software packages will be e as well as related databases and completed projects. (Sp)	Prerequisite: None This course will discuss the important classifications of landform and soil systems. The relevance of these systems in the GIS environment will be highlighted. The importance of these systems in/the information processing, land use, land plan-	
GRET 240Cartography In GIS3Prerequisite: NoneThis poject tab is designed for students GIS beyond that which is offered in our design is required (F, Sp, Su)The basic principles, functions, and origins of maps will be discussed. The student will construct various types of maps. Computer-offered map planning and design along with how to read, print, and design maps will also be covered. (F)GRMN 115 Conversational German IGRET 241 Remote Sens/AirPhoto Interpret ton of aerial photography data, how it is collected, and the ability to analyze maps created from the data collected in this method. The current technology and GIS relationship will be highlighted. (Sp)GRMN 115 Conversational German IGRET 243 ORACLE/Geographic Info Sys reaguistie: None This course will construct several databases that apply to the GIS cov- erage layers. (F)GRMN 116 Conversational German IGRET 243 GIS/GPS Field Systems uperoguisite: NoneGRET 243 GIS/GPS Field Systems merostation Analyst (MGA) is an advanced software package dealing with GIS merostation Analyst (MGA) is an advanced software package dealing with GIS merostation spatial analysis. It will also cover system query sets and answers to questions posed to topological files. (F, Sp)GRIN 121 Elementary German I Prerequisite: Rone Prerequisite: Rone GRIN 122 Elementary German II Prerequisite: GRINN 121 1.5 minimum a stord gramma from dation, speaking, reading, and writing. Cor solid grammar foundation, swill be presented and project examples highlighted. Hards-on computer exercises will be completed. (F, Sp)GRINN 121 Elementary German II Prerequisite: GRINN 121 1.5 minimum a stord avanced practice in the four basic, spatian, and writing. Cor source avanced practice in the four basic, spating, read	I of the possible application areas for GIs cation areas such as toxic materials, traff e, energy, and communication will be high	This course specifically deals with all of the possible application areas both present and future. Project application areas such as toxic material flow, mining, forestry, natural resource, energy, and communication will i lighted. A semester-long application project of your choice will be develope computer, (Sp) GRET 295 GRET Project Lab	GRET 223 Environmental Resource Mgmt 3 Prerequisite: None This course will cover the broad spectrum of environmental resources such as forestry, agriculture, mining, soils, vegetation, and their impact and management in current computer information systems. Resources in the land planning disciplines will be highlighted as to their function in the present environmental	
GRET 241Remote Sens/AirPhoto Interpret3GRET 241Remote Sens/AirPhoto Interpret3Prerequisite: None3This course will include the development of skills necessary for basic interpretation of aerial photography data, how it is collected, and the ability to analyze maps created from the data collected in this method. The current technology and GIS relationship will be highlighted. (Sp)GRET 243ORACLE/Geographic Info Sys3Prerequisite: None3Prerequisite: None9This course will cover the components of ORACLE needed to build a database for GIS applications. This is a hands-on computer course. Sample databases will be demonstrated. Students will construct several databases that apply to the GIS coverage layers. (F)GRET 248 GIS/GPS Field Systems3GRET 243 GIS/GPS Field Systems3GRMN 121 Elementary German IPrerequisite: None9Prerequisite: None9MicroStation Analyst. (MGA) is an advanced software package dealing with GIS6Firequisite: Reading Level 5MGA, which generates topologically-structured files from design files for use in performing spatial analysis. It will also cover system quory sets and answers to questions posed to topological files. (F, Sp)3GRET 253 Basics of ARC/View3GRMN 122 Elementary German IIPrerequisite: Rone3GRMN 122 Elementary German IIPrerequisite: Rone3GRMN 121 L 5 minimum a Second course of a two-semester seque offers more advanced practice in the four basic grammar foundation, as well as family true in Germany. Austria, and SwitzerlanGRET 253 Beginning ARC/Into3GRET 255 Beginning		This project lab is designed for students who wish to pursue a specialty GIS beyond that which is offered in our curriculum. Inquiry through researchesign is required. (F, Sp, Su)	Prerequisite: None The basic principles, functions, and origins of maps will be discussed. The student will construct various types of maps. Computer-offered map planning and design	
GRET 243 ORACLE/Geographic Info Sys3GRMN 116 Conversational German IIGRET 243 ORACLE/Geographic Info Sys3Prerequisite: NoneThis course will cover the components of ORACLE needed to build a database for GIS applications. This is a hands-on computer course. Sample databases will be demonstrated. Students will construct several databases that apply to the GIS cov- erage layers. (F)9GRET 248 GIS/GPS Field Systems39Prerequisite: None3Prerequisite: None3MicroStation Analyst (MGA) is an advanced software package dealing with questions posed to topological files. (F, Sp)3GRET 253 Basics of ARC/View3GRET 253 Basics of ARC/View3Prerequisite: None3This course is an overview and introduction to the ARC/View software. Also cov- ered are the basic components of a viewing program and its applications in GIS. Various demonstrations will be presented and project examples highlighted. Hands-on computer exercises will be completed. (F, Sp)GRET 255 Beginning ARC/Into3	quence for persons with little or no know and speaking skills. Students learn corre ctures, and a practical vocabulary applied	Prerequisite: None The first course in a two-semester sequence for persons with little or no edge of German. Emphasizes listening and speaking skills. Students learn pronunciation, essential language structures, and a practical vocabulary ar conversational exchanges. Aspects of German culture are introduced throut	GRET 241 Remote Sens/AirPhoto Interpret 3 Prerequisite: None This course will include the development of skills necessary for basic interpreta- tion of aerial photography data, how it is collected, and the ability to analyze maps created from the data collected in this method. The current technology and GIS	
GRET 248 GIS/GPS Field Systems3GRMN 121 Elementary German IPrerequisite: NonePrerequisite: Reading Level 5MGA, which generates topologically-structured files from design files for use in performing spatial analysis. It will also cover system query sets and answers to questions posed to topological files. (F, Sp)Prerequisite: Reading Level 5GRET 253 Basics of ARC/View3GRET 253 Basics of ARC/View3Prerequisite: None3This course is an overview and introduction to the ARC/View software. Also cov- ered are the basic components of a viewing program and its applications in GIS. Various demonstrations will be presented and project examples highlighted. Hands-on computer exercises will be completed. (F, Sp)GRET 255 Beginning ARC/InfoGRET 255 Beginning ARC/Info3	alent sequence for persons with little or no know g and speaking skills. Students learn correctures, and a practical vocabulary applied	Prerequisite: None Recommended: GRMN 115 or Equivalent The second course in a two-semester sequence for persons with little or nr edge of German. Emphasizes listening and speaking skills. Students learn pronunciation, essential language structures, and a practical vocabulary ar conversational exchanges. Aspects of German culture are introduced throu	GRET 243 ORACLE/Geographic info Sys 3 Prerequisite: None This course will cover the components of ORACLE needed to build a database for GIS applications. This is a hands-on computer course. Sample databases will be demonstrated. Students will construct several databases that apply to the GIS cov-	
GRET 253 Basics of ARC/View3GRMN 122 Elementary German IIPrerequisite: NonePrerequisite: San overview and introduction to the ARC/View software. Also covered are the basic components of a viewing program and its applications in GIS.Prerequisite: GRMN 121 1.5 minimum a Second course of a two-semester sequered offers more advanced practice in the four hension, speaking, reading, and writing with more complex structure as well as fourture in Germany, Austria, and SwitzerlGRET 255 Beginning ARC/Info3	pasic language skills: listening compreher ommunicative approach is combined with miliarization with contemporary life and cu	GRMN 121 Elementary German I Prerequisite: Reading Level 5 First course of a two-semester sequence in elementary German. This offers systematic practice in the four basic language skills: listening com sion, speaking, reading, and writing. Communicative approach is combine solid grammar foundation, as well as familiarization with contemporary life	GRET 248 GIS/GPS Field Systems 3 Prerequisite: None 3 MicroStation Analyst (MGA) is an advanced software package dealing with GIS 3 MGA, which generates topologically-structured files from design files for use in performing spatial analysis. It will also cover system query sets and answers to	
GRET 255 Beginning ARC/Info 3 GRMN 201 Intermediate German I	n and Reading Level 5 Juence in elementary German. This cours our basic language skills: listening compre ng. Communicative approach is combine s familiarization with contemporary life an	GRMN 122 Elementary German II Prerequisite: GRMN 121 1.5 minimum and Reading Level 5 Second course of a two-semester sequence in elementary German. This offers more advanced practice in the four basic language skills: listening of hension, speaking, reading, and writing. Communicative approach is co with more complex structure as well as familiarization with contemporary	Prerequisite: None This course is an overview and introduction to the ARC/View software. Also cov- ered are the basic components of a viewing program and its applications in GIS. Various demonstrations will be presented and project examples highlighted.	
Recommended: Computer Experience This course will be an introduction to the use of the ARC/INFO software. ARC/INFO is a leading product used in the design of Geographic Information writing. Includes composition, review of c	n and Reading Level 5 ce in intermediate German. Intensive prac ing, listening comprehension, reading, an f grammar, and viewing and discussion (culture in Germany, Austria, and Switzerland. (Sp) GRMN 201 Intermediate German I Prerequisite: GRMN 122 1.5 minimum and Reading Level 5 First course of a two-semester sequence in intermediate German. Intensit tice provided in the basic skills: speaking, listening comprehension, readi writing, Includes composition, review of grammar, and viewing and discus contemporary German films. Class is taught mainly in German an	Prerequisite: None Recommended: Computer Experience This course will be an introduction to the use of the ARC/INFO software. ARC/INFO is a leading product used in the design of Geographic Information	

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GRMN 202 Intermediate German II 4	HERT 102 Equipment Hydraulics
Prerequisite: GRMN 201 1.5 minimum and Reading Level 5 Second course of a two-semester sequence in intermediate German with advanced practice in the basic skills: speaking, listening comprehension, reading, and writing. Includes a review of advanced structures, composition, and viewing and discussion of contemporary German Films. Class is taught mainly in German	Prerequisite: Department Approval Upon completion of this course the successful student will be able to diagnose and repair hydraulic problems found typically on heavy duty construction equipment (Sp)
and uses Blackboard technology and Internet searches. (Sp)	HERT 103 Diesel Fuel System 4
HEOT – Heavy Equipment Operator Training	Prerequisite: Department Approval Upon completion the successful student will be able to diagnose and repair fue system failures found on heavy diesel engines. (Su)
HEOT 100 Equipment Introduction 5 Prerequisite: Department Approval	
This course is intended to give the student an overall review of legal and work responsibilities of an operator of heavy construction equipment. Safety, inspec- tions, and familiarization of equipment and operation standards for all major pieces of equipment will be stressed. (F, Sp, Su)	HERT 104 Equipment Powertrain 5 Prerequisite: Department Approval 1 Upon completion of this course the successful student will be able to diagnose and repair powertrain components in heavy duty equipment. (Sp) 1
HEOT 110 Part 10 MIOSHA	HERT 105 Equipment Service Writing 4
Prerequisite: Department Approval This course will give the student an overall review of OSHA standards associated with the operation of construction equipment. (F, Sp, Su)	Prerequisite: Department Approval Upon completion the student will be able to make repair estimates on a disabled piece of construction equipment. (Sp)
HEOT 120 Backhoe Operator 3	HERT 210 Heavy Equip Internship 3
Prerequisite: HEOT 100 2.0 minimum and HEOT 110 2.0 minimum and EMSA 100 2.0 minimum This course is intended to train the student to safely inspect and operate a back- hoe under conditions normally found on a job site. (F, Sp, Su)	Prerequisite: Department Approval Students earn credits while employed performing duties associated with the heavy equipment operator or repair technician occupations. The student will work under the general supervision of an experienced equipment operator or repair technician and will learn current industry practices. The program coordinator must approve
HEOT 121 Excavator Operator 3	the training station and working conditions. (F, Sp, Su)
Prerequisite: HEOT 100 2.0 minimum and HEOT 110 2.0 minimum and EMSA 100 2.0 minimum	HIST - History
This course is intended to train the student to safely inspect and operate an exca- vator under conditions normally found on a job site. (F, Sp, Su)	HIST 150 African-American History 4 Prerequisite: Reading Level 5
HEOT 122 Wheel Loader Operator 2 Prerequisite: HEOT 100 2.0 minimum and HEOT 110 2.0 minimum and EMSA 100 2.0 minimum	Traces the developments which led to the African slave trade, the slave systems in North and South America, the cultural heritage of the African American in the Americas, and the problems of race in North American culture. (Sp)
This course is intended to train the student to safely inspect and operate a wheel loader under conditions normally found on a job site. (F, Sp, Su)	HIST 210 Studies in American History 4
HEOT 123 Forklift Operator 1 Prerequisite: HEOT 100 2.0 minimum and HEOT 110 2.0 minimum and EMSA 100	Prerequisite: Reading Level 5 Covers problems of research, writing, philosophy, and interpretation of history, involving a detailed examination of a particular area of American history. (Su)
2.0 minimum This course is intended to train the student to safely inspect and operate a forklift	HIST 211 U.S. History to 1877 4
under conditions normally found on a job site. (F, Sp, Su)	Prerequisite: Reading Level 5 and Writing Level 6 A political, legal, economic, social and cultural history of the United States from
HEOT 130 Motor Grader Operator 5	colonial beginnings to 1877. (F, Sp, Su)
Prerequisite: HEOT 100 2.0 minimum and HEOT 110 2.0 minimum and EMSA 100 2.0 minimum	HIST 212 U.S. History: 1877 To Present 4
This course is intended to train the student to safely inspect and operate a motor grader under conditions normally found on a job site. (F, Sp, Su)	Prerequisite: Reading Level 5 and Writing Level 6 A political, legal, economic, social, and cultural history of the United States from the end of reconstruction to the present. (F, Sp, Su) #
HEOT 131 Buildozer Operator 3	
Prerequisite: HEOT 100 2.0 minimum and HEOT 110 2.0 minimum and EMSA 100 2.0 minimum	HIST 214 African History 4 Prerequisite: Reading Level 5 and Writing Level 6
This course is intended to train the student to safely inspect and operate a bull- dozer under conditions normally found on a job site, (F, Sp, Su)	Recommended: WRIT 121 or WRIT 131 Surveys African history with emphasis on pre-colonial and colonial Africa, nation-
HEOT 132 Trenching and Gradework 3	alism and the struggle for independence, colonialism and economic develop- ment/underdevelopment, and cultures and traditions as factors in development.
Prerequisite: HEOT 100.2.0 minimum and HEOT 110.2.0 minimum and EMSA 100 2.0 minimum	Covers some of these topics in three other countries of the Third World (e.g., Brazil, Pakistan, and Indonesia). (F)
This course is intended to familiarize the student with basic safety practices nec- essary with trenches and benches and with basic grading and staking. (F, Sp, Su)	HIST 220 Michigan History 4
HERT – Heavy Equipment Repair Technician	Prerequisite: Reading Level 5 and Writing Level 6 Recommended: WRIT 121 or WRIT 131
HERT 100 Heavy Engine Rebuild 6	A survey of the political, economic, and social development of Michigan from pre- colonial times to the present. (F)
Prerequisite: Department Approval	

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Upon completion of this course the successful student will be able to efficiently

Upon completion of this course the successful student will be able to diagnose and

and accurately rebuild a heavy duty diesel engine. (F)

repair electrical problems on heavy duty equipment. (F)

HERT 101 Heavy Equipment Electronics

Prerequisite: Department Approval

HIST-230 British History

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: WRIT 121 or WRIT 131

A survey of the political, economic, legal, constitutional, and social forces which shaped British history and society from earliest times to the present with special emphasis on the interactions of British and American institutions, values, and ideas, (Sp)

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HIST 240 Latin American History

Prerequisite: Reading Level 5 Recommended: WRIT 121 or WRIT 131-

A survey of the history and culture of Latin America from pre-Columbian civilizations to the present. This course will examine political, social, and cultural developments in Latin America and assess the role of colonialism, nationalism, and world economic trends in shaping Latin American countries. (Sp)

HIST 250 History of Modern Asia

Prerequisite: Reading Level 5

Recommended: WRIT 121 or WRIT 131

This course will survey political, social, and economic developments as well as principal cultural trends in the major civilizations of Asia (excluding Western Asia) from approximately the 17th Century to the present. The course will also include an examination of the interactions among Asian societies and between Asia and the West. (F)

HIST 260 Conflict&Revolu Southrn Africa

Prerequisite: Reading Level 5

Recommended: WRIT 121 or WRIT 131

Study of historical-cultural origins and contexts of conflicts in Zimbabwe and Southern Africa with emphasis on socioeconomic causes of conflicts, cultural differences and conflicts, problems of development as sources of conflicts, inter-African conflicts, settler-African conflicts, international dimensions of conflicts, and solutions to conflicts. (Sp, Su)

HIST 263 Seminar: Modern Russia

Prerequisite: Reading Level 5 and Writing Level 6 Recommended: WRIT 121 or WRIT 131

A survey of Russia and its people from the Russian Revolution of 1917 to the present. Also examined are the multinational character of the former USSR and the forces that shaped Soviet history, society and politics, including Russian relations during the Cold War and after. (Su)

HIST 265 Sem: American Legal Tradition

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: WRIT 121 or WRIT 131 A historical survey of the origins, growth, and development of the American legalconstitutional process. The legal system is studied in the context of American culture by examining the leading cases, philosophies, scholars and institutions, and approaches to the study of law. (Su)

HIST 295 Independent Study in History

Prerequisite: Department Approval

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (F, Sp, Su)

HMFS - Hotel/Motel and Food Service Operations

HMFS 101 Intro Hospitality/Tourism

Prerequisite: Reading Level 3 and Writing Level 4

Career opportunities in various types of hotels, restaurants and tourism operations are discussed; includes trends and explains the importance of the various segments as they work together to provide quality guest service. (F, Sp; Su)

HMFS 110 Sanitation and Safety

Prereguisite: None

Safe food handling, prevention of food spollage, and transfer of bacteria, maintenance of equipment and facilities, and importance of good personal hygiene in the work place are discussed; HACCP explained. OSHA laws described and illustrated. Includes examinations for national and state sanitation. (F, Sp, Su)

HMFS 131 Food and Beverage Management

Prerequisite: HMFS 101 2.0 minimum or Concurrently

Recommended: HMFS 110 2.0 minimum.

This course provides an overview of food preparation with focus on management issues and quality. It includes laboratory activities to practice safe operation of equipment, and to plan, prepare, serve, and manage complete meals for public consumption. Cost controls, purchasing, and beverage management are discussed. (F, Sp)

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HMFS 132 Food Production

Prerequisite: HMFS 110 2.0 minimum or Concurrently and HMFS 131 2.0 minimum Recommended: Minimum 2.0 in HMFS 101 and HMFS 135 This course presents advanced food preparation procedures with guidelines on organization of food and beverage production. Food purchasing and proper stor-

age prior to production is examined. The course also includes terminology, theory, planning, organization, productivity techniques, costing, purchasing, sales, service, and management of meals for public consumption. (F, Sp)

HMFS 134 Nutrition and Healthy Eating

Prerequisite: None

Eating out sensibly discussed plus explanation of nutrients and their role in maintaining health. Examination of food patterns, weight control and maintaining a healthy lifestyle with reasonable exercise. Includes nutritional analysis of 24-hour food consumption. (F, Sp)

HMFS 135 Hospitality Purchasing

Prerequisite: HMFS 101 2.0 minimum or Concurrently

Recommended: HMFS 131-2.0 minimum

Responsibilities of a purchasing agent and role with vendors in an effective purchasing program are explained; focus on writing specifications, purchasing for all categories of foods and supplies, cutting test procedures and standard receiving practices. Emphasis on how to make effective managerial purchasing decisions. (F)

HMFS 137 Catering Management

Prerequisite: None

Recommended: Minimum 2.0 in HMFS 110 and HMFS 132 and HMFS 135 Sequential steps to successful catering are presented from determining client needs, planning of menus, purchasing, costing and pricing events establishing equipment requirements, examining both on and off-premise functions, recognizing sanitation concerns, and designing contractual agreements with clients. Lab preparation and presentation of a catered event. (Sp)

HMFS 170 Menu Management and Design

Prerequisite: HMFS 131 2.0 minimum or Concurrently

Recommended: Minimum 2.0 in HMES 101 and HMES 135

Design a menu using accurate descriptive terms, calculation of selling prices, layouts recommended, selection of fonts and colors. Includes analysis of menus including accuracy, (truth in menu), the menu as a marketing tool, and current trends. Semester project included. (F)

HMFS 177 Intro Hotel and Food Serv Ops

Prerequisite: None

An introduction to the hotel-motel-food service industry, its management departments, and responsibilities. Designed specifically for Japan Adventure and Japan Horizon students. (F, Sp, Su)

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HMFS 190 Internship

Prereguisite: Department Approval

Recommended: Have completed a minimum of 30 credits

This internship provides hands on experience in a food service facility, lodging property, or travel operation to supplement and illustrate the industry principles, techniques, skills, and procedures learned in previous course work. Students will engage in a minimum of 200 hours of approved paid work experience. (F, Sp)

HMFS 203 Hospitality Law

Prerequisite: HMFS 101 2.0 minimum or Concurrently

Recommended: Minimum 2.0 in HMFS 131 and/or HMFS 206

Legal problems and issues commonly faced in hospitality operations including rights and responsibilities of innkeepers, restaurants, caterers, and other food establishments, guest relationships, guest property rights frauds, employment safety, tax and liquor laws. Current court cases discussed. (Sp)

HMFS 204 Hospitality HR Management

Prerequisite: None

Recommended: HMFS 101 and HMFS 170 and HMFS 203 Supervisor's role as a leader, coach and personnel manager; topics include managing culturally diverse workers plus recruitment, selection, orientation, training, evaluating, and disciplining employees. Discussion on retaining employees, sexual harassment, and worker motivation. (F, Sp)

HMFS 205 Hospitality Management

Prerequisite: HMFS 101 2.0 minimum or Concurrently Recommended: Minimum 2.0 in HMFS 131 and HMFS 203 and HMFS 204 A survey of management principles and practices in the hospitality industry. Topics include basic financial statements, operating ratios, planning, organizing, directing and controlling related to lodging and food service operations. (F, Sp)

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HMFS 206 Rooms Division Management

Prerequisite: HMFS 101 2.0 minimum or Concurrentiy

Reservation and sale of hotel rooms, operation of front office, review of check-in and check-out procedures, credit card processing, property security, daily audit and the importance of keeping accurate records. Includes yield management and determining 'room, rates, forecasting based on statistical analysis, posting accounts and budgeting. (Sp)

HMFS 215 Hospitality Sales/Marketing

Prerequisite: HMFS 101.2.0 minimum or Concurrently

Recommended: Minimum 2.0 in (HMFS 131 and/or HMFS 206) and HMFS 170 Design and evaluation of sales promotions, strategic marketing plans and marketing alternatives; includes techniques for market analysis, needs assessment and creation of packages and joint ventures such as co-branding. Trends in branding and methods to evaluate marketing effectiveness will be discussed. Project included. (F, Sp)

HMFS 229 Convention/Meeting Management

Prerequisite: HMFS 101 2.0 minimum or Concurrently Recommended: Minimum 2.0 in (HMFS 131 and/or HMFS 206) and HMFS 170 Determining client needs, evaluating capability of facility and community resources and marketing for convention business is included. Methods of evaluating successful conventions and meetings are examined and the use of software programs to book events and maintain client records. (Sp)

HMFS 232 Food and Labor Cost Control

Prerequisite: HMFS 131 2.0 minimum or Concurrently and (HMFS 207 2.0 minimum or ACCG 101 2.0 minimum) or Concurrently and Math Level 3

Recommended: Minimum 2.0 in HMFS 204 and HMFS 205 Strategies for making a profit and controlling food, beverage, and labor costs are examined. Includes discussion of quality versus cost issues and an analysis of records to detect problems. Includes examination of facility management strategies to reduce costs and save energy. Methods for increasing revenues are discussed and evaluated. (F, Sp)

HMFS 240 Current Topics in Hospitality

Prerequisite: HMFS 101 2.0 minimum Recommended: Minimum 2.0 in HMFS 203 and HMFS 206 and HMFS 215

This course provides an examination of current trends, issues and topics affecting the hospitality industry. Each offering will change emphasis with possible topics such as Internet marketing, projected and pending legislation, casino and resort management, technological advancements, facilities management, leadership development, and industry globalization. (F, Sp)

HMFS 251 Wine Appreciation

Prerequisite: Must be 21 Years of Age Selection and storage of five basic wine types, how they are made and served; evaluation of wines based on appearance, bouquet and taste. Discussion on food compatibility with comparative taste evaluations. (F, Sp)

HMFS 252 Wines of America

Prerequisite: Must be 21 Years of Age A study of the wine making industry in America with emphasis on wines from California, New York, Michigan and Ohio. Comparative taste evaluations and discussion of food compatibility. (F)

HMFS 253 Wines of France

Prerequisite: Must be 21 Years of Age Examine, in depth, the history and regional differences exhibited by the major wine producing areas of France - the world's leader and most famous wine producer. Through tasting, students will travel through the regions of Bordeaux, Burgundy, Champagne, Alsace, Rhone, and Loire River Valley. (Sp)

HMFS 254 Mixology

Prerequisite: None

More than bartending: includes accuracy and efficiency in preparation of many mixed beverages that are explained and demonstrated; includes strategies for controlling over and under pouring, bar management, and theft. Industry standards explained (glassware, garnishing, and service) with emphasis on sanifation issues. Student preparation in laboratory setting. (F, Sp, Su)

HMFS 260 Gourmet Basic Cookery

Prerequisite: None

Recommended: HMFS 110

Beginning basics of menu planning, recipe selection, purchasing of ingredients, correct preparation, and service. Cost issues and sanitation concerns emphasized. Preparation and evaluation of meals included. (F, Sp)

HMFS 261 Gourmet Italian Cookery

Prerequisite: None

Recommended: HMFS 110

Regional and national foods from Italy with specialty menus from each major region. Meal planning, food purchasing, and food preparation included. Local community experts contribute their expertise to the class. Preparation and evaluation of meals included; opening and closing kitchen procedures practiced. (F, Sp)

HMFS 263 Gourinet American Cookery

Prerequisite: None Recommended: HMFS 110

Explore why the U.S. is considered "the Meiting Pot" of the world. During this course, you will travel through 8 different regional cuisines. Sanitation, nutrition, and personal hygiene are essential topics, along with various kitchen safety practices. (F, Sp, Su)

HMFS 264 Gourmet Barbecue Cookery

Prerequisite: None Recommended: HMFS 110

Innovative approaches to preparing flavorful grilled foods; includes meats, vegetables, hors d'oeuvres, plus salads and desserts. Learn how to create memorable picnics! Preparation and evaluation of meals included; opening and closing kitchen procedures practiced. (F, Sp, Su)

HMFS 266 Gourmet Chinese Cookery

Prerequisite: None

Recommended: HMFS 110

Learn basic techniques in the preparation of popular favorites such as sweet and sour pork, chicken almond ding and egg rolls; emphasis on proper saute' methods and "red" cooking techniques. Preparation and evaluation of meals included for diverse taste, texture, and aroma; opening and closing kitchen. (Sp)

HMFS 268 Gourmet Middle Eastern Cookery

Prerequisite: None

Recommended: HMFS 110

Unique ingredients and preparation procedures from various Middle Eastern countries are examined and explained. Includes preparation of entrees, side dishes, and desserts followed by detailed evaluations as to quality and customer acceptability. Preparation and evaluation of meals included, opening and closing kitchen procedures practiced. (F, Su)

HMFS 270 Vegetarian Cuisine

Prerequisite: None

This course will examine the growing trend of vegetarian cookery and how it has evolved over the years. Information will be provided on the different types of vegetarian cuisines, as well as how this has impacted today's lifestyles. Preparation and evaluation of meals included; opening and closing kitchen procedures practiced. (F, Sp)

HMFS 272 The Cuisine of India

Prerequisite: None

This course is designed to explore foods from India, including an introduction to Indian cuisine, its history, indigenous foods, herbs and spices used, and geography. Indian cuisine has a very rich history. Its taste is varied by region being simple, flavorful, colorful, and at times very intense. Preparation and evaluation of meals included; opening and closing kitchen procedures practiced. (F, Sp)

HMFS 273 Gourmet Cajun Cookery

Prerequisite: None

Recommended: HMFS 110

Louislana is home of Cajun and Creole cooking. Learn how to prepare a variety of recipes from this popular cuisine utilizing different herbs, spices, and techniques. Preparation and evaluation of meals included; opening and closing kitchen procedures practiced. (Sp)

HMFS 274 Gourmet Lean Cookery

Prerequisite: None

Recommended: HMFS 110

Healthy ingredient alternatives examined to reduce the fat, salt, and calories in preparation of a variety of favorite recipes. Includes discussion of food composition and making healthier food choices through improved purchasing decisions. Preparation and evaluation of meals included; opening and closing kitchen procedures practiced. (F, Sp)

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HMFS 275 - HORT 230

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HMFS 275 Bakery Products

Prerequisite: None

Recommended: HMFS 110

Learn the roles of each baking ingredient, scaling, mixing, and baking techniques to achieve high quality products. Production of breads, quick breads, pies, cakes, pastries, and cookies made in a commercial bakery. Scratch and convenience lines examined and tested. (F, Sp, Su)

HMFS 276 Ice Carving Seminar

Prerequisite: None

This course is designed to expose the student to the tools, techniques, and skills required to carve a block of ice. The student will be carving from a block of ice before the conclusion of the course. This is a hands-on, one-day course. (F, Sp)

HMFS 280 Food Decorating Garnishes

Prerequisite: None

Recommended: HMFS 110 and HMFS 132

Garnishing and presentation of various cold foods such as canapes, hors d'oeuvres, and vegetable carvings; plus the use of spices, sauces, and dressings. Food sculpting included. Set-up of lunch reception included. Preparation and evaluation of meals included; opening and closing kitchen procedures practiced. (Sp)

HMFS 281 Soups and Sauces

Prerequisite: None

Recommended: HMFS 110 and HMFS 132

Compose several different types of stocks using raw materials. Topics discussed: seasonings in stock, glazes prepared from stocks, preparation of various soups, proper garnish of soups, and major classifications and uses of sauces. (Sp)

HONR - Honors

HONR 151 Honors Colloquy I

Prerequisite: Honors Program Approval

Interdisciplinary forum for Honors Program members and other interested students. Includes presentations by experts in such fields as the arts, business, communication, education, humanities, government, mathematics, science, and the social sciences, followed by discussion. Topics concerning international issues, diversity, and technology are often featured. Students write essays reacting to each presentation. (F)

HONR 152 Honors Colloquy II

Prerequisite: Honors Program Approval

Interdisciplinary forum for Honors Program members and other interested students. Includes presentations by experts in such fields as the arts, business, communication, education, humanities, government, mathematics, science, and the social sciences, followed by discussion. Topics concerning international issues, diversity, and technology are often featured. Students write three substantive research papers. (F)

HONR 155 Community Service Practicum I

Prerequisite: Honors Program Approval

A practicum course for freshman students requiring a minimum of 32 hours of volunteer.service with a community agency of the student's choice and attendance at three classroom discussion sessions. Students will develop practical skills and evaluate their service in terms of its relevance to the community and their educational, career, and life goals. (Sp)

HONR 156 Community Service Practicum II

Prerequisite: Honors Program Approval

This is an opportunity for sophomore Honors Program students to volunteer in a community agency of their choice. Students will develop practical skills and evaluate their service in terms of its relevance to the community and their educational, career, and life goals. (Sp)

HONR 295 Honors Independent Study

Prerequisite: Honors Program Approval

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week on course work. A detailed proposal must be submitted by the student for approval by the Honors Program Director and supervising instructor prior to registration. (F, Sp, Su)

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HOBT - Horliculture

HORT 100 Field Experiences Horticulture

Prerequisite: None

This course will introduce the student to various aspects of the horticulture profession through discussion, videos, slides, field trips, and guest speakers. Topics will include greenhouse operators, bedding plant growers, nursery growers, sod producers, florai shop operators, retail garden centers, and garden suppliers wholesalers. (Sp)

HORT 102 Intro Ornamental Horticulture

Prerequisite: None

An introductory course involving botanical and horticultural principles and practices. Basic plant structures and their functions as well as soil and plant nutrition are discussed. Job opportunities and the role of horticulture will also be covered. Field trips and laboratory experiments will highlight the course. (F, Sp)

HORT 103 Indoor Plants and Flowers

Prerequisite: None

This hands-on course will allow the student to work with various aspects of the growth and propagation of typical flowering and foliage plants. The student will grow a collection of plants and explore various horticultural practices with their own plant material in a laboratory setting. (F, Sp)

HORT 105 Pest/Problem Ornamental Plants

Prerequisite: None

This course is for the professional or homeowner interested in a knowledge of basic environmental and specific pest problems of trees and shrubs. Problems related to soil, light, water, planting, and fertilizer as well as insects, diseases, and vertebrates will be discussed. Integrated pest management and total plant health concepts will form the basis for problem management. (F, Sp)

HORT 107 Beginning Florel Design

Prerequisite: None

This is an introductory course for students interested in learning the principles of floral design. Tools and techniques as well as basic arrangement shapes are learned through hands-on experiences. Students will use fresh, silk, and dried flowers to create traditional and contemporary designs. (F, Sp, Su)

HORT 109 Contemporary Floral Design

Prerequisite: None

Recommended: Basic Floral Design Experience

Contemporary floral designs are taught as well as theme arrangements, tools, and techniques. The basic principles of design are reviewed with the student transferring techniques to stylized arrangements. This is a hands-on course with participants working with floral materials each week. (F, Sp)

HORT 110 Wedding Floral Design

Prerequisite: None

Recommended: Basic Floral Design Experience

This course is designed for the advanced floral designer who has demonstrated the ability to apply the principles of design. Wedding designs covered include colonial, cascade, crescent, and arm bouquets. This is a hands-on class with students working with floral materials each week. (Sp)

HORT 143 Cut Flower, Foliage, Pot Plant

Prerequisite: None

The functional aspects of plant material commonly found in the florioulture industry will be covered. The identification of cut flowers, cut foliage, and potted and foliage plants will be required. A course that would benefit the floral designer, greenhouse grower, or landscape designer. (Sp)

HORT 230 Plant Propagation/Nursery Op

Prerequisite: HORT 102 1.0 minimum

This course will cover the basics of plant propagation and nursery operations. It will focus on the process of setup, planting, and follow-up maintenance. The tools and techniques of seed propagation, as well as cuttings, grafting, budding, and layering will be emphasized. Knowledge of plant selection, soils, pruning, harvesting, and marketing nursery products will be included. (F)

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HORT 235 Greenhouse Structures/Environ

Prerequisite: None

This course is an introduction to the construction and operation of a commercial greenhouse. Types of greenhouses, including construction materials, are discussed. Environmental control such as heating, cooling, and irrigation practices and procedures are presented. In addition, methods of planting, fertilizing, and insect and disease control are also included to provide e basis of knowledge for greenhouse crop production. (F)

HORT 236 Greenhouse Ornamentals

Prerequisite: HORT 235 1.0 minimum This is an advanced course for the greenhouse grower. The course will cover the production techniques for cut flowers, holiday crops, and other greenhouse ornamentals. Topics of discussion will include scheduling and timing crops, spacing, production costs, and cultural practices. (Sp)

HORT 237 Bedding Plant Production

Prerequisite: HORT 102 1.0 minimum

An advanced course for the greenhouse grower to produce healthy bedding plants at a profit. Topics will include scheduling, spacing, and production costs as well as cultural practices. New varieties will also be presented. (F)

HORT 238	Garden Center/Nursery Sales	 	3
Prerenuisit	e' None		

This course provides business principles for retail sales managers. A thorough discussion of management topics is presented. Emphasis is placed on planning and

organizing a garden center, nursery, greenhouse, or florist operation. Effective pricing and merchandising strategies as well as advertising and display techniques are discussed. (Sp)

HORT 295 Horticulture Project Lab 1-4

Prerequisite: Department Approval This project lab is designed for students who wish to pursue a specialty area in horticulture beyond that which is offered in our curriculum. Inquiry through

HUMS - Humanities

research is required, (F, Sp, Su)

HUMS 120 Western Art and Music History

Prerequisite: Reading Level 5 and Writing Level 4

An introduction to the masterpieces of art and music from preliterate times to the 20th century. Audio and visual material will be used to illustrate artistic and musical contributions of Europe and America to the development of Western culture. (F, Sp, Su)

HUMS 140 Art of Being Human

Prerequisite: Reading Level 5 and Writing Level 6

Through an interdisciplinary exploration of art, dance, history, literature, music, philosophy, religion, and theater, students will analyze human experience and examine their values. An active learning environment using team-teaching will encourage self-discovery and understanding of the issues and concerns found in the Humanities and Performing Arts. (F)

HUMS 160 Mythology

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: WRIT 121 or WRIT 131

Classical Greek and Roman myths constitute the first half of the course with the remainder chosen from at least two of the following areas: African, American, Far Eastern, Medieval European, Near Eastern, or Norse. Reading and analysis of primary sources in translation and their cross-cultural comparison are emphasized. (F, Sp, Su)

HUMS 211 History of Art I

Prerequisite: Reading Level 5 and Writing Level 6 Recommended: WRIT 121 or WRIT 131

Surveys the history of painting, sculpture, and architecture of world civilizations in Africa, the Americas, Asia and Europe from preliterate times to the 15th century. Emphasizes analysis and comparison of artistic concepts, styles and techniques; and investigates how the arts reflect ideas, issues; and values of society and the individual. (F, Sp. Su)

HUMS 212 History of Art II

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: WRIT 121 or WRIT 131

Surveys the history of painting, sculpture, and architecture of world civilizations in Africa, the Americas, Asia, and Europe from the 15th to the 20th century, Emphasizes analysis and comparison of artistic concepts, styles and techniques: and investigates how the arts reflect ideas, issues, and values of society and the individual, (F. Sp)

HUMS 213 World Civilizations I

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: WRIT 121 or WRIT 131

Surveys the literature and art, science and technology, and the social and political systems of major civilizations in Africa, Asia, Europe, and the Americas to approximately the 17th century. Emphasizes the contributions of early civilizations to the creativity, richness, and diversity of the human condition. (F. Sp, Su)

HUMS 214 World Civilizations II

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: WRIT 121 or WRIT 131

Surveys the literature and art, science and technology, and the social and political systems of major civilizations in Africa, Asia, Europe, and the Americas from approximately the 17th century to the present. Emphasizes the contributions of modern civilizations to the creativity, richness, and diversity of the human condition. (E. Sp. Su)

HUMS 215 American Civilization

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: WRIT 121 or WRIT 131

This course will explore the cultural foundations of the United States from the period of exploration to the present. This is an interdisciplinary course which examines central themes of American culture and their representation in history, literature, art, philosophy, and religion. (Su)

HUMS 225 Grt Lake Native Amer: Hist&Trad

Prerequisite: None

Surveys the Great Lakes Native American culture and people, the differences in oral tradition and written histories of the Great Lakes Anishnaabek (First People). the Talking Circle for community problem solving, and an introduction to the language. (F. Sp. Su)

HUMS 260 Seminar: Ancient Egypt

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: WRIT 121 or WRIT 131

This course explores the achievements of one of the earliest and most successful of world civilizations. Developments in Egyptian art, architecture, and literature will be emphasized and the roles of religion, kingship, and geography will be studied. Great discoveries and discoverers of Egyptian archaeology will also be featured. (F)

HUMS 265 Sem:Ethical Issues in Medicine

Prerequisite: None

This course will present some of the ethical dilemmas which arise in relation to health care and develop a framework for ethical decision-making with which to deal with these and other related problems. It is designed for both health care professionals and others who are interested in these issues. (F, Su)

HUMS 295 Indep. Study in Humanities

Prerequisite: Department Approval

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (F/Sp, Su):

HUSE - Human Services

HUSE 100 Introduction to Human Services

Prerequisite: Reading Level 3 and Writing Level 4

This course presents an overview of the basic programs and social institutions which provide human services: It provides the student with an orientetion to and overview of methods and problem-solving skills used by human service workers in a variety of settings. (F, Sp, Su)

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Prerequisite: Department Approval

HUSE 297 Human Services Indepen Study

sions of ble who in human services areas, such as gerontology, social work, substance abuse, or related areas. It requires at least 16 hours of independent work for each credit. A learning contract specifying objectives, activities and outcomes is required. (F, Sp, Su)

HVAC - Heating, Ventilating, and Air Conditioning

HVAC 100 Fundamentals of HVAC

Prerequisite: None

This course is an introduction to the mechanical refrigeration cycle and its individual components. Compressors, evaporators, condensers and metering devices as well as their functions are covered in detail. Exercises in psychrometrics and an introduction to system design are also covered. (F, Sp, Su)

HVAC 105 Sheet Metal Fabrication/Instal

Prerequisite: None

Designed to aid the installer in the skills and techniques for installation of residential heating and cooling systems. Topics include sheet metal layout, identification of sheet metal fittings and general furnace installation procedures. (F, Sp. Su)

HVAC 110 Applied Electricity I

Prerequisite: None

An introduction to basic electricity (AC and DC) using both theory and applied study methods. Topics will include electrical components, symbols, basic schematic diagrams, Ohm's Law applied to series and parallel circuits and motor types and usages. In conjunction with lab exercises, meters and their proper usage will be covered. (F, Sp, Su)

HVAC 111 Applied Electricity II

Prerequisite: HVAC 100 1.5 minimum and HVAC 110 1.5 minimum. The study of motors with an emphasis on theory, troubleshooting and servicing. Motor controls, control circuits, protection devices and discussion of energy conservation as related to motors will be covered in detail. (F, Sp)

HVAC 120 Heating I

Prerequisite: HVAC 100 1.5 minimum and HVAC 110 1.5 minimum Basic construction and function of components in residential gas and oil fired furnaces with detail on theory, application, troubleshooting and servicing standard heating systems. Installation procedures and codes are also covered. Additional equipment studied will include humidiffers, air cleaners and vent dampers. (F, Sp)

HVAC 130 Air Conditioning I

Prerequisite: HVAC 100 1.5 minimum and HVAC 110 1.5 minimum Fundamentals and principles of residential air conditioning systems. Students will learn soldering and brazing of tubing, wiring, component testing, evacuation procedures, charging and maintenance of both split systems, as well as small packaged units. (F, Sp)

HVAC 201 Mechanical Code

Prerequisite: HVAC 120 1.5 minimum and HVAC 130 1.5 minimum A fundamental course designed to acquaint the student with the methods and techniques used in field inspection of mechanical systems. The Michigan Mechanical Code and excerpts from the International Fuel Gas Code and Michigan Residential Code will be discussed. (F, Sp)

HVAC 211 Schematics

Prerequisite: HVAC 100 1.5 minimum and HVAC 110 1.5 minimum An in-depth study into the cause and effect aspects of schematic diagrams. The student will learn to simplify complicated schematics to obtain the sequence of operation necessary for the proper troubleshooting of heating, ventilation and air conditioning equipment. (F, Sp)

HVAC 220 Heating II

Prerequisite: HVAC 111 1.5 minimum and HVAC 120 1.5 minimum and HVAC 211 1.5 minimum

Fundamentals and principles of electronic ignition systems including troubleshooting and servicing. The major emphasis is placed on high efficiency and condensing furnaces to include sequence of operation, troubleshooting, servicing and proper installation. (F, Sp)

HUSE 101 Personal Dimensions/Human Serv Prerequisite: None

This course explores the nature and development of personal dimensions of human services, including knowledge, values, and skills needed by people who are preparing for careers in the helping professions. The potential impact and influence of these skills on the helping process are also explored. (F, Sp)

HUSE 110 Intro/Child Abuse and Neglect

Prerequisite: None

This course reviews the history and scope of child abuse and neglect, including socioeconomic and psychological factors. It explores the world of abnormal rearing, roles of community agencies and disciplines, approaches to treatment and prevention, coordination of cases and services, and legal aspects and the law. (F, Sp)

HUSE 112 Understanding/Substance Abuse Prerequisite: None

This course reviews substance abuse and use from a historical, sociological, and psychological perspective. It includes drug classifications, street terminology, and causes of abuse, and examines past and current legislation regarding substance abuse and use. Ethical issues discussed include professional competency and

responsibility, confidentiality, and the commitment to nondiscrimination (F, Sp, Su) HUSE 120 Introduction/Family Violence 2

Prerequisite: None

This course provides an overview of the historical, socioeconomic, oultural, and psychological factors associated with family violence emphasizing battered women. The resources available, intervention techniques, the role of law enforcement agencies, legislative bodies, and social service agencies are discussed. (F)

HUSE 240 Substance Abuse: Spec Pop/Adol

Prerequisite: HUSE 112 2.5 minimum or Concurrently This course surveys substance abuse in various populations including adolescents, older adults, women, individuals with physical or psychological disabilities

cents, older adults, women, individuals with physical or psychological disabilities or challenges, as well as various ethnic groups including African Americans, Native Americans, and Hispanics. Commonalities and areas of uniqueness for each is examined. Reasons for abuse, dependency dynamics, and treatment considerations are explored. (Sp)

HUSE 242 Chemically Dependent Family

Prerequisite: HUSE 112 2.5 minimum or Concurrently

This course provides a conceptual framework within which to understand, assess, and effectively intervene/interact in a counseling fashion with the chemically dependent family. Specific subgroups and issues within or resulting from the chemically dependent family are explored. (Sp)

HUSE 245 Addiction: Preven/Treatment

Prerequisite: HUSE 112 2.5 minimum or Concurrently

This course provides a developmental framework for understanding the multiple factors contributing to substance abuse and examines cycles of addiction, personality, and patterns of interaction. Prevention programs and strategies are identified and analyzed, as are specific approaches and treatment modalities. Ethical issues are addressed, including confidentiality, professional relationships, end advocacy. (F)

HUSE 282 Human Services Practicum 1

Prerequisite: SOWK 203 2.5 minimum and (WRIT 121 2.0 minimum or WRIT 131 2.0 minimum) and Department Approval

Recommended: HUSE 101 and (SOCL 254 or SOCL 260) and Human Sérvices Experience

This course combines classroom training with beginning field experience (10 hours per week) in a community-based human services agency. Emphasis is on knowledge of the community power structure, funding bases, and the internal working of human services organizations. Opportunities in the labor force, certification requirements, and networking are explored. (F)

HUSE 284 Human Services Practicum II

Prerequisite: HUSE 282 2.5 minimum

This course provides classroom training on principles of human services delivery with advanced practical experience (10 hours per week) in a community-based human services agency. Emphasis is on identifying systems and resources to link the systems with the people and how to mobilize the systems and the people. (Sp)

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	3		DMS 245 Sonographic Instrumentation 2
	HVAC 221 Infloction to Hydroniou	5	Prerequisite: IDMS 234 2.5 minimum
	Prerequisite: HVAC 220 1.5 minimum Covers hot water and steam residential heating systems, piping and all acces- sories. safety controls, expansion tanks, zone valves, installation procedures and codes. Students perform testing, troubleshooting, adjusting and servicing of com- ponents to insure maximum efficiency. (F, Sp)		Co-requisite Course(s): IDMS 265 and IDMS 266 and IDMS 281 The student will be introduced to the mechanics of A-Mode, M-Mode, Doppler, and Real-time ultrasound equipment. Accessory equipment such as the camera, trans- ducer, and cathode ray tube will be presented. Methods of quality assurance will also be presented. (Sp)
	HVAC 230 Air Conditioning II 4	:	
	Prerequisite: HVAC 111 1.5 minimum and HVAC 130 1.5 minimum and HVAC 211		IDMS 265 General Sonography II 4
ood an an an are well wanted a second as a second second second	1.5 minimum Advanced air conditioning, light commercial equipment, water cooled units, cool- ing towers and wiring both control and line voltage circuitry. The latest in test equipment and meters will aid the student in becoming proficient in servicing and maintenance of commercial equipment. (F, Sp)	•	Prerequisite: IDMS 201 2.5 minimum Co-requisite Course(s): IDMS 245 and IDMS 266 and IDMS 281 The student will be presented with the identification of and interpretation of anatomy and pathology on sonographic exams as it relates to the abdomen, venous system, and small parts. (Sp)
	HVAC 231 Heat Pump 3	~	IDMS 266 OB/GYN Sonography II 4
	Prerequisite: HVAC 230 1.5 minimum This course deals entirely with heat pumps (air-to-air, water-to-air) and their instal- lation, servicing, proper application of heat pump components and extensive wiring schematics. (F)		Prerequisite: IDMS 202.2.5 minimum Co-requisite Course(s): IDMS 245 and IDMS 265 and IDMS 281 The student will be presented with the identification of and interpretation of anatomy and pathology on sonographic exams as it relates to the obstetric and gynecologic patient. (Sp)
	HVAC 240 Refrigeration 1 4		
	Prerequisite: HVAC 230 1.5 minimum or Concurrently Domestic refrigeration as applied to refrigerators, freezers and de-humidifiers. Course content includes applications, operation and servicing of sealed systems, electrical and cabinet styles. (F)	-	Prerequisite: Admission to Diagnostic Medical Sonography Program Co-reguisite Course(s): IDMS 201 and IDMS 202 and IDMS 234 Eirct course in a three-semester sequence of clinical application in diagnostic
	HVAC 241 Refrigeration II 4		medical sonography. Clinical experience is provided under the direct supervision
	Prerequisite: HVAC 240 1.5 minimum Light commercial refrigeration to include low and medium temperature applica- tions, as applied to ice machines, walk-ins, reach-ins and display cases. (Sp)		of an ARDMS Registered Sonographer. Clinical competencies will be given corre- sponding to completed didactic work. Performance standards are used to evaluate the student's progress. (F)
	HVAC 250 Pneumatic Control 3		IDMS 281 Clinical Experience II 7
	Prerequisite: HVAC 230 1.5 minimum Basic concepts of pneumatic controls and their calibration will be covered. Procedures taught will be based on industry standards for HVAC equipment in commercial structures. (Sp) HVAC 251 Fund of Direct Digital Control 3 Prerequisite: HVAC 250 1.5 minimum		Prerequisite: IDMS 280 2.5 minimum Co-requisite Course(s): IDMS 245 and IDMS 265 and IDMS 266 Building on material presented in IDMS 280, this is the second course in a three- semester sequence in diagnostic medical sonography. Clinical experience is pro- vided under the direct supervision of an ARDMS Registered Sonographer. Clinical competencies will be given corresponding to completed didactic work. Performance standards are used to evaluate the student's progress. (Sp)
	Recommended: Basic Windows Computer Skills		IDMS 282 Clinical Experience III 9
	Basic fundamentals and principles of direct digital controls will be covered through demonstrations of computer basics, control strategies for computer based energy management systems, and installation components according to industry stan- dards. (F)		Prerequisite: IDMS 234 2.5 minimum and IDMS 245 2.5 minimum and IDMS 265 2.5 minimum and IDMS 266 2.5 minimum. Based on material presented in IDMS 281, this is the last course in a three-semes- ter sequence of clinical application in diagnostic medical sonography. Clinical
	IDMS - Diagnostic Medical Sonography		experience is provided under the direct supervision of an ARDMS Registered Sonographer. Clinical competencies will be given corresponding to completed
1	IDMS 200 Sonographic Introduction	2	didactic work. Performance standards are used to evaluate the student's progress.
1	Proceedulate: Admission to Diagnostic Medical Sonography Program	Ì	(Su)
	This course is an introduction to sonography including equipment history, criteria	, : 4	IMAG - Photography Technology
	limitations of ultrasound, and sonographer ethics. General information is provider regarding patient preparation, history/clinical correlation, and basic nursing care	9	IMAG 101 Basic Photog for Non-Majors 2.
• .	specific to ultrasound. Strong emphasis is placed on terminology and abbrevia tions most commonly used with ultrasound. (Su)		Prerequisite: None
			Studente will learn to use camera controls, exposure controls, photographic com-
	Prerequisite: Admission to Diagnostic Medical Sonography Program. Co-requisite Course(s): IDMS 202 and IDMS 234 and IDMS 280 This course provides the student with cross-sectional anatomy and pathology a it relates to sonographic scanning of the abdomen, abdominal vessels, thyroic	\$ s	position, and lighting to make better photographs. Color film and commercial pro- cessing will be used. Designed for students with little or no previous still photography experience who do not plan to major in imaging technology. (F, Sp, Su)
	prostate, scrotum, breast, and neurosonology of the neonate. (F)		IMAG 111 Intro to Photographic Tech I 4 Prerequisite: Reading Level 3 and Writing Level 2 and Math Level 3
	IDMS 202 OB/GTN Sonography 1	4	Introduces students to photographic technology on both a theoretical and practi-
	Prerequisite: Admission to Diagnostic Medical Sonography Program Co-requisite Course(s): IDMS 201 and IDMS 234 and IDMS 280 This course provides the student with cross-sectional anatomy and pathology a it relates to gynecological and obstetrical sonography. Fetal anatomy and appear ance will be presented. (F)	s	cal level. The student will learn camera types and related equipment, exposure controls, beginning and intermediate black-and-white film processing and printing, including contrast controls. This course is the introductory course to the Photo Imaging Technology Program. (F, Sp, Su)
		2	IMAG 112 Design for Imaging Tech
	IDMS 234 Sonographic Physics Prerequisite: Admission to Diagnostic Medical Sonography Program	-	Prerequisite: IMAG 111 2.0 minimum or Concurrently
	Co-requisite Course(s): IDMS 201 and IDMS 202 and IDMS 280		This course introduces students to design theory and its application to imaging

technologies on both a practical and theoretical level. Students will learn and apply The student will study the fundamental principles of acoustical physios, how sound design elements and principles to their evolving work. (F, Sp, Su) is produced and manipulated, and how it reacts in various mediums. (F)

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IMAG 113 Lighting Concepts/Applications

Prereguisite: IMAG 111 2.0 minimum or Concurrently

Introduces the student to fundamental lighting concepts encountered in the studio and on location. Students will learn to apply their knowledge by identifying and solving common photographic lighting problems. Students will use professional continuous and electronic flash equipment to produce acceptable images. (F, Sp, Su)

IMAG 114 Intro Photographic Color Tech

Prerequisite: IMAG 111 2.0 minimum and IMAG 112 2.0 minimum and IMAG 113 2.0 minimum and Reading Level 5 and Writing Level 2 and Math Level 3

Introduces the student to the theories and applications of contemporary color photographic materials and processes. Students will learn to produce acceptable color images by applying the concepts of film selection, film testing, color temperature, lighting, and color image design to their evolving work. (F, Sp)

IMAG 117 Intro to Photographic Tech II

Prerequisite: IMAG 111 2.0 minimum Continuation of IMAG 111. Students will learn intermediate and advanced blackand-white exposure, developing, and printing controls and techniques. Students will acquire knowledge and skills to solve technical, aesthetic, and communication problems. Successful completion required for continuation in the Imaging Technology Program (Still Track) at the 200 level. (F, Sp)

IMAG 119 Intermediate Lighting

Prerequisite: IMAG 111 2.0 minimum and IMAG 113 2.0 minimum An exploration of intermediate lighting theories, practices and techniques. This course emphasizes the use of natural light and electronic flash as applied to people, locations and advanced studio settings. (F, Sp)

IMAG 191	Photo Imaging Special Topics			1
Prerequisit	te: IMAG 117 2.0 minimum			
Recommen	nded: IMAG 114 and IMAG 119			
Photo Imag	ing Special Topics will be offered t	for intermediate and	advanced p	ho-

tographic imaging students. Topics will cover a broad range of subjects related to photographic imaging and related fields. (F, Sp, Su)

IMAG 192 Photo Imaging Special Topics

Prerequisite: IMAG 117 2.0 minimum

Recommended: IMAG 114 and IMAG 119 Photo Imaging Special Topics will be offered for intermediate and advanced photographic imaging students. Topics will cover a broad range of subjects related to photographic imaging and related fields. (F, Sp, Su)

IMAG 193 Photo Imaging Special Topics

Prereguisite: IMAG 117 2.0 minimum

Recommended: IMAG 114 and IMAG 119

Photo Imaging Special Topics will be offered for intermediate and advanced photographic imaging students. Topics will cover a broad range of subjects related to photographic imaging and related fields. (F, Sp, Su)

IMAG 210 Intermediate Color Ap and Tech

Prerequisite: IMAG 114 2.0 minimum and IMAG 117 2.0 minimum and IMAG 119 2.0 minimum

Introduces the student to the contemporary materials and processes of the negative to positive color photographic print process. Students will learn to produce professionally acceptable prints from a wide variety of color negatives by applying color balancing and printing controls, print finishing techniques, and lab efficiency skills to their work. (F)

IMAG 212 Large Format Photography

Prerequisite: IMAG 114 2.0 minimum and IMAG 117 2.0 minimum and IMAG 119 2.0 minimum and (IMAG 210 2.0 minimum or Concurrently)

Introduces students to large format and medium format imaging technologies and their applications to commercial illustration. Students will work in areas directly linked to the technical elements of this format. (F)

IMAG 213 Portrait Photography

Prerequisite: IMAG 114 2.0 minimum and IMAG 117 2.0 minimum and IMAG 119 2.0 minimum and (IMAG 210 2.0 minimum or Concurrently)

Introduces students to medium format imaging technologies and their applications to portrait photography. Students will work in areas directly linked to the technical and expressive elements of these formats. (F)

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IMAG 214 Photojournalism

Prerequisite: IMAG 114 2.0 minimum and IMAG 117 2.0 minimum and IMAG 119 2.0 minimum and ((ARTS 171 2.5 minimum and IMAG 210 2.0 minimum) or Concurrently)

Introduces students to techniques and practices of photojournalism, documentary photography, and public relations photography. (F)

IMAG 215 Photo Imaging Technology

Prerequisite: IMAG 210 2.0 minimum and IMAG 212 2.0 minimum and IMAG 213 2.0 minimum and IMAG 214 2.0 minimum and (ARTS 228 2.0 minimum or Concurrently)

Students will apply critical thinking processes and digital photographic imaging technologies to produce a body of work illustrating their areas of special interest. (Sp)

IMAG 228 Independent Study

Prerequisite: IMAG 117 2.0 minimum and Approved Proposal Allows advanced students to pursue study in areas not formally taught within the curriculum. Students will work in consultation with an instructor. Acceptable written proposal required prior to registration. This course may be repeated for credit toward an associate degree with department approval. (F, Sp. Su)

IMAG 229 Advanced Imaging Applications

Prerequisite: IMAG 117 2.0 minimum and Approved Proposal

This course allows advanced students to work on improving skills or enhance skills in an area of strength or interest. Students will work with an instructor in a directed learning experience. An acceptable written proposal is required prior to registration. This course may be repeated for credit toward an associate degree with department approval. (F, Sp, Su)

IMAG 232 Internship

Prerequisite: IMAG 117 2.0 minimum and Department Approval

This course allows advanced students to work as an intern developing competencies in the technical, business, creative, and communicative aspects of photography, film making, or electronic imaging. An acceptable written application and internship agreement is required prior to registration. This course may be repeated for credit toward an associate degree with department approval. (F, Sp, Su)

IMAG 233 The Business of Photography

Prerequisite: IMAG 212 2.0 minimum and IMAG 213 2.0 minimum and IMAG 214 2.0 minimum

This course exposes the student to the general business practices and approaches used in the photographic marketplace. (Sp)

IMAG 234 Portfolio Assembly/Degree Comp

Prerequisite: IMAG 210 2.0 minimum and IMAG 212 2.0 minimum and IMAG 213 2.0 minimum and IMAG 214 2.0 minimum

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This is a concluding course for the Photography program associate degree. This course finalizes the student's portfolio and immediate career plans. Students edit and assemble their best work into a cohesive, visual resume in order to secure employment or gain admission to another institution for continued studies. Students present portfolios in a public program. (Sp)

IMAG 238 Project Lab Independent Study

Prerequisite: IMAG 117 2.0 minimum and Approved Proposal

This course allows advanced students to pursue study in areas not formally taught within the curriculum when these studies require the use of the Photography Center facility. Students will work in consultation with an instructor. An acceptable written proposal is required prior to registration. This course may be repeated for credit toward an associate degree with department approval. (F, Sp, Su)

IMAG 240 Internship

Prerequisite: IMAG 117 2.0 minimum and Department Approval

This course allows advanced students to work as interns developing competencies in the technical, business, creative, and communicative aspects of photography, film making, or electronic imaging. An acceptable written application and internship agreement is required prior to registration. (F, Sp, Su)

INSU - Insurance

INSU 265 Principles Risk and Insurance

Prerequisite: None

At the completion of this course, the student will have a working knowledge of the theory of risk, insurance terminology, legal insurance contracts, and use of risk management. (Sp)

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INTR - Interior Design INTR 100 Interior Design Fundamentals 3 Prerequisite: None Practical survey course for residential interior design and decoration. Topics include plenning, selecting and arrangement of furnishings, scheduling color schemes, and identification of furniture styles as they relate to the selection and coordination of home furnishings and accessories. (F, Sp, Su) INTR 110 Applied Design/Color Theory З Prerequisite: None A studio course in basic design theory. Topics Include two- and three-dimensional design fundamentals, elements and principles of design, color, creativity and problem solving as they relate to interior design. (F, Sp) INTR 151 Computer-Aided Kitchen Design Δ Prerequisite: ARCH 100 2.0 minimum or INTR 106 2.0 minimum Recommended: Windows Experience This course is an in-depth study of kitchen planning, design, and remodeling through computer software applications. Lecture and lab components are included, (F. Sp) INTR 170 Interior Design Principles 4 Prerequisite: (ARCH 100 2.0 minimum or INTR 106 2.0 minimum) and Reading Level 5 and Writing Level 6 This course is an overview of the basic knowledge required for the education of the professional interior designer. Human needs are the focal point of solving problems of space planning and furniture arrangement. Students will use the elements and principles of design to evaluate function and aesthetics of interior spaces. (F, Sp) INTR 185 Introduction to Textiles 3 Prerequisite: Reading Level 5 and Writing Level 6 This course examines the basic fundamentals of textiles characteristics and identification; fibers, yarns, fabric construction, finishes and regulations, with emphasis on applications, performance and care in the apparel, interiors and auto industry. (F, Sp) INTR 190 Interior/Materials/Equipment 4 Prerequisite: None

Recommended: INTR 106 or ARCH 100 or Equivalent Study of nonstructural interior finishes and materials, their methods of application and installation and their effect on the environment. Students will study kitchens, bathrooms, cabinets, ceilings, walls, floors, and paint. (F, Sp)

INTR 201 Cultural Diversity In Housing

Prerequisite: Reading Level 5 and Writing Level 6

This multidisciplinary course is the study of how culturally diverse ideas, issues, values, and institutions in global societies have shaped the built environment and the political, social and economic impact this has on the individual and the group. (Sp)

INTR 230 World Decorative Arts

Prereguisite: None

Recommended: Reading Level 5 and Writing Level 6

This course is a survey of the decorative arts of the world including furniture, interior architecture, textiles, and accessories. Students will study designers, styles, materials and techniques and their influence upon the political, geographical, economic and religious cultures of Africa, Asia, Europe and the Americas. Period is from antiquity to seventeenth century. (F)

Prerequisite: None Recommended: Reading Level 5 and Writing Level 6 This course is a study of the decorative art periods including furniture, interior architecture, textiles, and accessories from the Italian Renaissance to the nine- teenth century western industrial revolution. (Sp)	INTR 231	Period Interiors		3
This course is a study of the decorative art periods including furniture, interior architecture, textiles, and accessories from the Italian Renaissance to the nine-	Prerequisit	e: None		
architecture, textiles, and accessories from the Italian Renaissance to the nine-	Recommen	ided: Reading Level 5 and Writing Level	6	
	architecture	, textiles, and accessories from the Itali		

INTR 232 Twentieth Century Interiors з Prerequisite: None

Recommended: Reading Level 5 and Writing Level 6

This course is a selective survey of interior design covering the history and philosophy of modern and international styles from the turn of the century to the 1990s. Student projects will include a colored sketchbook. (Sp)

INTR 256 Interior Professional Practice

Prerequisite: None

Recommended: MATH 117

This course is an in-depth study of the business and professional practices of interior designers. Students prepare written communications, contract forms, and schedules. The study of marketing, ethics, and project management are included. (F)

INTR 261 Interiors Project Laboratory

Prerequisite: Department Approval

Restriction: Interior Design Majors

Recommended: INTR 222 or INTR 251 or ARCH 221 or ARCH 231 or Equivalent This course is a directed study of special projects not incorporated in regular course offerings. (F, Sp, Su)

INTR 263 Internship

Prerequisite: Department Approval

Recommended: INTR 256 2.0 minimum and GPA 2.5 and 20 credits completed in INTR

This course is a work site experience. Students will gain pre-career experience by working in a studio environment under the supervision of a professional. Regularly scheduled progress reports will be given and discussed with supervising faculty member. (F; Sp, Su)

INTR 265 Interior Design Residential

Prerequisite: ARCH 101 2.0 minimum and ARCH 121 2.0 minimum and INTR 151 2.0 minimum and INTR 170 2.0 minimum

Recommended: INTR 190

This course is an integrated design studio with components of interior space planning, interior lighting and construction systems, and residential interior design with computer applications. Students will apply knowledge, skills processes and theories of interior design to residential studio problems. Residential interior design includes programming, universal design, human factors data and specifying interior materials for a sustainable environment. (Sp)

INTR 270 Interior Design Portfolio

Prereduisite: None

Restriction: Interior Design Majors

Recommended: ARCH 121 and 20 credits completed in INTR

The portfolio course is an opportunity for students to organize photographs, matte/frame, and display their visual works. At the completion of the course, the students will have developed a format for a portfolio. (Sp)

INTR 275 Interior Design Commercial

Prerequisite: ARCH 121 2.0 minimum and ARCH 231 2.0 minimum and INTR 170 2.0 minimum and INTR 190 2.0 minimum

This course is an integrated design studio with components of three ofmensional visualization, commercial specifications and commercial interior design using computer applications. Students will apply knowledge, skills, processes, and theories of interior design to commercial studio problems. Commercial interior design includes programming, schematic design, design development, and contract documents, (F)

IRXT - Radiologic Technology

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IRXT 100 Intro to Imaging/Patient Care

Prerequisite: Admission to Radiologic Technology Program

This course is a survey of the role of the radiographer in the health care industry, exploreing the historical perspective of x-ray, certification, licensure, and continuing education requirements. Principles of basic patient care are covered including: aseptic techniques, infection control, vital signs, medical emergencies, venipuncture, and intravenous medication administration. Clinical observations at a college affiliate site and laboratory activities are included. (F)

IRXT 111 Radiographic Positioning I

Prerequisite: Admission to Radiologic Technology Program

Student radiographers are introduced to radiographic positioning of the upper and lower extremity, chest, abdomen, bony thorax, pelvis, and spine. Associated topographic, skeletal, chest, and abdominal anatomy is studied. A laboratory experience is provided to evaluate the student skills in performing each position/projection. (F)

IRXT 112 Radiographic Positioning II

Prerequisite: IRXT 111 2.5 minimum

A continued study of routine radiographic positioning with the addition of fluoroscopic procedures. Included are studies of the skull, G.I. tract, G.U. tract, myelography, and bronchography. In addition, various contrast media are studied: Laboratory experiences are provided to evaluate student skills in performing selected position/projections. (Sp)

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IBXT 114 Cross-Sectional Anatomy

Prerequisite: IRXT 112 2.5 minimum

Provides an overview of transverse, coronal, and sagittal sectional anatomy of the human body. Special emphasis is placed on a study of the head and brain, thorax, abdomen and pelvis. The shoulder, elbow, hip and knee are also examined. Correlations between cadaver cross-sections, CTs, MRIs and radiographs are explored. (Sp)

IRXT 121 Radiographic Exposure I

Prerequisite: Admission to Radiologic Technology Program

The formation of the radiographic image is the focus of IRXT 121. Photographic and geometric variables are related to radiographic factors and their various interactions compared and contrasted. Finally, a study of the history of radiology, basics of radiation formation, and anatomy of the X-ray tube are discussed. (F)

IRXT 122 Radiographic Exposure II

Prerequisite: IRXT 121 2.5 minimum Various beam modifying devices are presented and their relation to formation of a radiographic image studied. A study of manual processing and the theory of image formation is included. Dark room procedures and quality control, both radiographic and photographic, will also be explored. (Sp)

IRXT 131 Radiologic Physics

Prerequisite: IRXT 122.2.5 minimum and MATH 112.2.5 minimum Basic physical principles are related to the radiologic process. A study of basic electricity and the operation of the x-ray circuit are presented. Finally, advanced, topics regarding the formation of radiation, protection of the X-ray tube, and X-ray attenuation are studied. (F)

IRXT 132 Radiobiology and Protection 2

Prereguisite: IRXT 131 2.5 minimum

This course focuses on the rationale for good radiation hygiene and methods used to protect the patient and technologist. Current theories regarding the physiological effects of ionizing radiation are explored. (Sp)

IRXT 200 Intro/Radiologic Pathology 2

Prerequisite: None

Emphasizes how disease processes are diagnosed radiographically and the relationship of the radiographic appearance of the disease to its anatomic, physiologic, and pathologic characteristics. The etiology, treatment, and resolution of each disease is discussed with an attempt to relate more recent advances in these areas. (F)

IRXT 202 Clinical Practice I

Prerequisite: IRXT 111 2.5 minimum

First in a two-semester sequence of clinical application in radiography. The course is programmed with specific performance activities. Credit is arranged for each individual semester with a ratio of one credit hour to four clinical clock hours. The ratio for lecture is consistent with the one-to-one ratio. (Sp)

IRXT 204 Clinical Practice II-S

Prerequisite: IRXT 202 2.5 minimum

Second course in a two-semester sequence of clinical applications in radiography. The course is programmed with specific performance activities. Credit is arranged for each individual term with a ratio of one credit hour to four clinical clock hours. The ratio for lecture is consistent with the one-to-one ratio. (Su)

IRXT 214 Comprehensive Experience I

Prerequisite: IRXT 204 2.5 minimum or IRXT 213 2.5 minimum First in a three-semester sequence of clinical application in radiography. Clinical experience is provided under the direct supervision of an ARRT Registered Technologist, Clinical competencies will be given corresponding to completed didactic work. Performance standards are used to evaluate the students progress. (F)

IRXT 215 Comprehensive Experience II

Prerequisite: IRXT 214 2.5 minimum

Second in a three-semester sequence of clinical application in radiography. Clinical experience is provided under the direct supervision of an ARRT Registered Technologist. Clinical competencies will be given corresponding to completed didactic work. Performance standards are used to evaluate the students progress. (Sp)

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ISCI - Integrated Science

ISCI 121 Integrated Sci for Education I

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4 The first of two general science coursas focusing on the fundamental behavior of matter and energy using a historical and environmental context. Science processes, methods, and reasoning skills are emphasized throughout. Recommended for education majors. (F, Sp)

ISCI 122 Integrate Sci for Education II

Prerequisite: ISCI 121 2.0 minimum and Reading Level 5 and Writing Level 6 and Math Level 4

The second of two general science courses focusing on the biological and ecological nature of our universe, using a historical and integrative approach. Science processes, methods, and reasoning skills are emphasized throughout. Recommended for education majors. (F, Sp)

ISCI 131 Integrated Science - Physical

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4 A general education course designed to provide students with a basic understanding of the methods and applications of science. Topics include basic chemistry, thermodynamics, the hydrologic cycle, earth science, climate, and weather. Critical thinking and problem-solving skills are applied to environmental issues. Laboratory activities illustrate and amplify lecture topics. (F, Sp)

JAPN - Japanese

JAPN 115 Conversational Japanese I

Prereguisite: None

First course in conversational Japanese. Designed for people with little or no knowledge of Japanese who wish to acquire conversational skills. Students learn correct pronunciation, basic sentence structures, and practical vocabulary for everyday use and traveling. Selected features of Japanese culture and everyday lite in Japan will be introduced. (F, Sp, Su)

JAPN 116 Conversational Japanese II

Prerequisite: None

Recommended: JAPN 115 or Equivalent

Second course in conversational Japanese. Designed for people with some prior knowledge of Japanese who wish to improve their conversational skills. Students learn practical vocabulary and essential grammar to converse in Japanese. Selected features of Japanese culture and everyday life in Japan will be introduced. (F, Sp)

JAPN 121 Elementary Japanese I

Prerequisite: Reading Level 5

First course of a two-semester sequence in eleméntary Japanese. Designed to provide students with basic knowledge of Japanese for practical communication and skills in speaking, reading, writing, and listening comprehension. Provides information concerning everyday life and culture of Japan. Hiragana and Katakana syllabaries and 40 Kanji will be introduced. (F, Sp, Su)

JAPN 122 Elementary Japanese II

Prerequisite: JAPN 121 1.5 minimum and Reading Level 5 Second course of a two-semester sequence in elementary Japanese. Students receive more practice in Japanese for practical communication. Develops speaking, reading, writing, and listening skills. Previously acquired knowledge and skills are refined and ability to communicate in Japanese is increased. Additional 100 Kanji will be introduced. Class is taught mostly in Japanese. (Sp)

JAPN 201 Intermediate Japanese I

Prerequisite: JAPN 122 1.5 minimum and Reading Level 5

First course of a two-semester sequence in intermediate Japanese. Includes introduction of more advanced grammar, vocabulary building, composition, group discussions, and more information on Japanese culture and everyday life. Additional 150 Kanji will be introduced. (F)

JAPN 202 Intermediate Japanese II

Prerequisite: JAPN 201.1.5 minimum and Reading Level 5 Continuation of Japanese 201. Includes more advanced grammar, intensive vocabulary building, writing composition, reading contemporary materials, discussions, and student presentations of Japanese language or culture. Additional 150 Kanji will be introduced. Natural and practical communication will be emphasized. Class is taught in Japanese. (Sp)

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JRNL 151 Newswriting and Reporting

Prerequisite: None

JRNL - Journalism

Recommended: Computer and/or Keyboarding Experience

Introduction to, and practice in, writing news stories. Students learn news terminology, style, objectivity, attribution, accuracy, and copy-editing skills. Basic news gathering and reporting tactics are presented and practiced. (F)

JRNL 251 News Design and Layout

Prerequisite: JRNL 151 2.0 minimum

Recommended: Computer and/or Keyboarding Experience This course will equip students to do basic electronic design and layout for newspapers, newsletters, and brochures, among other print media. The news value of information will be the primary criterion for design choices, although fundamental

JRNL 254 Editorial Writing

aesthetics also will be covered. (Sp)

Prerequisite: JRNL 151 2.0 minimum or WRIT 121 2.0 minimum or WRIT 131 2.0 minimum

Recommended: Computer and/or Keyboarding Experience

A course in how to write effective editorials. Students analyze content, structure and style of editorial models, learn methods of finding subjects, learn methods of research, and write editorials and articles on important issues. (Sp)

LABR - Labor Relations

LABR 200 Intro to Labor Relations

Prerequisite: None

This course surveys both historical and legal frameworks of the labor movement. Major labor laws, causes and goals of the labor movement, and union structure and behavior will be discussed. Students will explore both labor and management approaches to solving employment disputes. (F, Sp)

LABR 201 Labor Negotiation/Contract Adm

Prerequisite: None

Recommended: LABR 200 or LABR 203 or Related Work Experience

This course covers key aspects of negotiating/applying collective bargaining agreements including: labor negotiations; contract administration; and grievance processing and arbitration. This hands-on course conveys basic knowledge, legal framework, and practical skills pertaining to negotiations and grievance adjudication. (F)

LABR 203 Labor Law

Prerequisite: None

Recommended: LABR 200 or Related Work Experience

An in-depth study of traditional labor law including NLRB law, court decisions, and historical origins which impact union organizing, representation elections, unfair labor practices, bargaining, strikes, and enforcement of labor contracts. (Sp)

LABR 204 Employment Law for Managers

Prerequisite: None

This course provides an introduction and overview to the principles and application of laws affecting the workplace, not including traditional labor relations law. Areas of law covered include discrimination, wage-hour, unemployment benefits, personnel records, and common law issues relating to discharge and other matters. (F, Sp)

LAND - Landscape Drafting 3

Prerequisite: None

This course covers the use of drafting equipment with an emphasis on lettering, line convention, and title blocks. The students will develop a basic format for design construction drawings. The course provides essential drafting skills for beginning the Landscape Program. (F, Sp, Su)

LAND 101	Landscape Special Topics	.25

Prerequisite: None

The Landscape Special Topics series will feature topics related to the green industries. The lectures will allow students to sample and explore a wide variety of topics related to plant materials. landscape designs and construction principles. Topics will range from water gardens and bonsais to rose gardens and herbs. (F, Sp)

LAND 120 Basics/Landscape Contracting

Prerequisite: None

This course will explore the field of landscape contracting and its relationship to landscape architecture and management. Landscape contractors and their role in plan evaluation, landscape material selection and their installation and construction features will be fully analyzed. The role of the individual in the design/build industry will be highlighted. (F)

LAND 130 Interior Landscaping

Prerequisite: None

This course includes the identification, culture, placement, and use of foliage and flowering plants in the office, mall, restaurant or home. Basic principles of fandscaping are covered to include soil media, watering, light requirements, fertilizer, and insect and disease control. Management in relation to the plant's placement and use within the interior landscape is also discussed. (Sp)

LAND 132 Residential Landscaping

Prerequisite: None

This course highlights a basic design process approach for developing a home landscape. The development of a basic design focusing on your own home including placement of plant material, decks, patios, water features, and other landscape elements will be demonstrated. A course for the new homeowner, homeowner renovating his or her landscape, residential landscaper, or nursery person. (F, Sp, Su)

LAND 133 Home Landscape Maintenance 3

Prerequisite: None

This course will provide a basic understanding of landscape maintenance problems and solutions. Students will develop records and schedules for pest control as well as tree, shrub, lawn, and flower maintenance. Plant selection, installation; pruning, and fertilization will be covered. (F, Sp, Su)

LAND 140 Evergreen and Deciduous Trees

Prerequisite: None

This course emphasizes identification of both common and uncommon deciduous trees, shrubs, evergreens, vines, and ground covers used in the landscape trade. Weekly lab walks facilitate development of field identification skills based on form, foliage, bark, bud, flower, and fruit characteristics. Landscape use and basic culture of individual plants are also covered. (F, Su)

LAND 141 Flowering Trees, Shrubs, Vines

Prerequisite: None

This course explores spring flowering trees, shrubs, broadleaf evergreens, and ground covers. Identification in the field is emphasized during weekly lab walks. Design characteristics of individual plants including size, habit, flowers, fruit, bark, follage, and buds are discussed as well as basic cultural requirements. (Sp. Su)

LAND 142 Perennial/Annual Flower Plants

Prerequisite: None

This course covers the identification and basic culture of approximately 170 perennial and annual flowering and budding plants. Specific features of each plant will be discussed in relation to their proper landscape use. Herbs, grasses, and rock and water garden plants will also be highlighted. (Sp, Su)

LAND 145 Field Exper Lendscape Arch

Prerequisite: None

This course will introduce the student to various aspects of the landscape architecture profession. Different aspects of the profession will be presented through discussion, videos, slides, field trips, and guest speakers. Topics will include urban planning, zoo design, ecological planning, landscape construction, recreation, and park design. (F, Sp)

LAND 150 Principles of Landscape Arch

Prerequisite: None

Students will explore the broad scale philosophical, historical, and technical aspects of landscape architecture. Basic problem-solving techniques and design theory are introduced along with implementation of the design process. (F, Sp, Su)

LAND 152 Landscape Graphics Comm-Begin

Prerequisite: LAND 150 2.0 minimum or Concurrently

This course explores basic illustration techniques relative to the field of landscape architecture. Both the formal and informal applications of mechanical and freehand drafting communication are emphasized to include reproduction printing methods. (F, Sp)

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LAND 153 Landscape Graphics Comm-Adv

Prerequisite: LAND 152 1.0 minimum

This course acquaints the student with visual presentation techniques used in landscape architecture. Plan, section, and three-dimensional graphics are explored using a range of media. The students will develop sketching and mechanical-drafting techniques for the preparation of professional graphic presentations. (Sp)

LAND 160 Planting Design I

Prerequisite: (LAND 140 1.0 minimum and LAND 150 1.0 minimum) or Concurrently

This course provides an overview of the planting design principles from site analysis to construction documents. Planting design principles are emphasized as well as practical aspects of plant selection and design implementation in a range of design situations. Contemporary issues concerning today's design and construction industries are also discussed. (F)

LAND 161 Planting Design II

Prerequisite: LAND 160 1.0 minimum

This course applies the planting design skills gained in LAND 160 to a broad range of sites and issues typically encountered in today's landscape design and construction industries. Topics covered include functional uses of plants, native plant material, and planting design in the urban environment. (Sp)

LAND 163 Designing Ornamental Gardens

Prerequisite: LAND 141 1.0 minimum or Concurrently

This course is a practical approach to designing the herbaceous garden. Annuals, perennials, herbs, and ornamental grasses are analyzed to create a design that will be in harmony with its environment. Color, height, texture, form, and fragrance are some of the plant's characteristics which will be discussed. (F, Sp)

LAND 164 Site Design

Prerequisite: LAND 150 2.0 minimum This course emphasizes use of the design process to solve a variety of urban and non-urban site planning problems. Project design solutions require graphic delineation stressing plan view presentations. A variety of drawing scales, graphic materials, and techniques will be explored. (F)

LAND 170 Site Grading I

Prerequisite: LAND 150 2.0 minimum

This course covers basic through advanced principles, methods, and procedures for grading a site. Use of contour lines, land form interpretation, and earthwork computation are studied and applied to problem solving for both typical and special requirement sites. (F)

LAND 171 Site Grading II

Prerequisite: LAND 170 2.0 minimum

This is an advanced site-grading course that builds on the skills gained in LAND 170. This Michigan Soil Erosion Control Act is emphasized with respect to the requirements related to circulation systems and recreational and utility facilities. (Sp)

LAND 172 Site Layout

Prerequisite: LAND 171 2.0 minimum or Concurrently

This course covers plan dimensioning and layout techniques for vehicle and pedestrian circulation systems, building locations, utilities, and sporting and recreational facilities. Professional graphic techniques are emphasized. (Sp)

LAND 180 Landscape Ecology

Prerequisite: None

This course is for the professional as well as the interested individual covering the relatively new field of landscape environments. Develop a basic understanding of landscape communities, how they developed, and how they function. Plant communities, native species, natural design, and environmental impact are some of the topics covered. (F)

LAND 181 Landscape Restoration/Manage

Prerequisite: None

Recommended: LAND 180

This course will cover the detailed steps necessary to complete a total restoration of a damaged ecosystem. Specific system designs dealing with wetlands and prairies in particular will be highlighted. Specific native plants, animals, and insects will be discussed. Field experiences and native plant identification are a critical part of this course. (Sp)

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LAND 182 Wetland Delineation/Evaluation

Prerequisite: None

This course will explore the basic elements of wetland identification. Wetland indicator vegetation, hydric soils, and wetland hydrology will be covered. The U.S. Army Corps. of Engineers Wetland Delineation Manual will be used as the guideline for this class. Certification credits can be secured by taking this course. (Sp)

LAND 183 Planned Wetlands Eval/Restorat

Prerequisite: None

This course will discuss goals which are desirable for designing planned wetlands, constructed, restored or enhanced with specific targeted functions in mind. The class will focus on assessment of wetland functions during the design process and tools available to accomplish this. Wetland design, restoration, evaluation, and management will also be discussed. (Sp)

LAND 184. Natural Landscape Design

Prerequisite: LAND 100 2.0 minimum

This course provides an overview of the major natural landscape ecosystems. The design process is applied to woodland, wetland, and prairie design systems. The use of native and exotic plant material is presented in the natural design process. Landscape designs are created for a variety of natural settings. (F, Sp)

LAND 220 Wetland Restoration

Prerequisite: None

This course will present current information available from the MDNR, EPA, and Army Corp of Engineers as it relates to wetland regulations and policy. Wetland delineation, mitigation, design, construction, and planting will be highlighted. Restoration enhancement and creation of wetlands will be outlined and developed. (F)

LAND 222 Landscape Construct Tech Begin

Prerequisite: None

This course will deal with the basic concepts needed to operate as a landscape contractor in the design/build industry. The fundamentals of landscape design evaluation, development of materials lists, and cost takeoffs will be demonstrated. Basic site analysis, site survey, drainage and grading techniques will be demonstrated. (F)

LAND 225 Landscape Cost Estimation

Prerequisite: None

This course is an introduction to the study of landscape contracting and the cost estimating process. The class covers the project management process end the costing factors associated with it. The areas of material costs, equipment cost. labor costs, and related management charges will be evaluated. The preparation of bids and the bidding process will be highlighted. (F, Sp)

LAND 232 Professional Res. Land Design

Prerequisite: LAND 100 2.0 minimum

This course is designed for the individual interested in residential and small commercial design projects on a professional scale. Several design problems will be presented and detailed projects will be developed. (F. Sp)

LAND 233 Grounds Management

Prerequisite: None

The student will evaluate a landscape design and/or specific site plan with total management of the site in mind. Seasonal management such as pruning, transplanting, pesticide applications and fertilization as well as cost evaluations will be based on commercial and office sites. This course is for the professional grounds manager. (F, Sp)

LAND 242 Ecological Land Planning

Prerequisite: None

This course will introduce the student to the land planning process. The ecological method of land planning will be emphasized with projects demonstrated. Field trips to planning meetings and project sites will be an integral part of this course. (Sp)

LAND 250 Landscape Construction Methods

Prerequisite: LAND 150 2.0 minimum

This course examines the properties and uses of concrete, asphalt, masonry, wood, and other landscape construction materials. Basic design and installation methods of landscape structures are emphasized in addition to the introduction of professional construction drafting techniques. (F)

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LEGL - Legal Assistant/L

LEGL 115 Legal Assistant Career/Ethics

Prerequisite: Reading Level 5 and Writing Level 6 Introduction to the legal assistant's role in the legal system, including essential skills used in the litigation process and law practice. Introduces student to legal terminology, legal analysis, procedural, and substantive law. Surveys paralegal employment and regulation. 2.0 minimum required to continue program. (F, Sp, Su)

LEGL 120 Legal Research I

Prerequisite: LEGL 115 2.0 minimum

Recommended: LEGL 215

Introduces research procedures and resources for finding federal and Michigan law, using digests, encyclopedias, reporters, statutes, court rules, treatises, administrative publications, citators, etc. Students complete research assignments utilizing the publications, and the assignments must be completed using the Michigan Uniform System of Citation. Some classes may be at off-campus libraries. (F, Sp)

LEGL 121 Legal Writing I

Prerequisite: WRIT 122 2.0 minimum and LEGL 115 2.0 minimum and (LEGL 120 1.0 minimum or Concurrently)

Recommended: LEGL 215

Students will learn to analyze court opinions and apply them to particular fact situations. This skill will then be used to write summaries of court opinions, legal memoranda, appellate briefs, and other legal documents. Learning methods include reading assignments, class discussion, lecture, and writing assignments of increasing difficulty. (F. Sp)

LEGL 160 Critical Thinking in Law

Prerequisite: None

This course strongly emphasizes the "learn by doing" approach, specifically by utilizing group dynamics. The panorama of thinking skills, particularly those relevant in law and criminal justice, will be examined and practiced. Innovative evaluation skills, both personal and group, are a regular part of each session. (F, Sp)

LEGL 210 Litigation Procedures

Prerequisite: LEGL 115 2.0 minimum

Recommended; LEGL 215

Provides in-depth study of pre-trial, trial, and post-trial practice and procedure. Emphasizes Michigan and federal rules of court. Detailed study of drafting pleadings, discovery procedures, and case preparation for trial and appeal. Also covers evidentiary rules as they relate to trial practice and preparation. (F, Sp, Su)

LEGL 211 Tort Law

Prerequisite: LEGL 115 2.0 minimum

Recommended: LEGL 215

Covers principles of negligence, intentional torts, and strict liability. Emphasizes the role of the legal assistant in dealing with these areas of law in actual practice situations. (F. Sp)

LEGL 215 Busn Law I, Basic Principles

Prerequisite: None

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Introduction to the legal system, its purpose, and the fundamental principles of various areas of the law. Course content includes sources of law, court procedures, contracts, torts, crimes, constitutional rights, no fault auto insurance, landford-tenant law, and ballments. Taught in traditional classroom style, via self-paced Computer Managed Learning (C.M.L.) or via the Virtual College (V.C.). (F, Sp, Su)

LEGL 216 Busn Law II, Commercial Law

Prerequisite: LEGL 215 1.0 minimum

An in-depth analysis of the Uniform Commercial Code allows students to explore the law of sales, commercial paper, secured transactions, banking, insurance, and debtor-creditor rights. Taught in traditional classroom style or via self-paced Computer Managed Learning (C.M.L.), (F, Sp, Su)

LEGL 217 Busn Law III, Busn Organiza

Prereguisite: LEGL 215 1.0 minimum

Introduces basic business organizations, including agency law, partnerships, sole proprietorships, and corporations. Additionally, the course will delve into government regulation of business, real estate, wills, trusts, and estates. Taught in traditional classroom style or via self-paced Computer Managed Learning (C.M.L.). (F. Sp)

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AND 252 Landscape Construction Details 3 rerequisite: LAND 250 2.0 minimum couses on graphic techniques for drawing construction details and coordination f details with site plan Jayout. Studies detailing utilities, irrigation systems, circution systems, recreational facilities, and various light construction features. Tesign-build procedures are stressed, including material tabulation and cost estimating. (Sp) AND 276 Landscape Documents and Spec 2 AND 276 Landscape Documents and Spec 2 rerequisite: LAND 164 2.0 minimum This course explores the relationship and principles between specifications and rorking drawings. The cost of projects as well as bid preparations will be high-ghted. The student will prepare bids, write specifications, and participate in a lass bid opening. (F) AND 281 CAD Basics in Landscape Design 1 Prerequisite: None 1 This basic introduction to computer-based landscape design software packages will include basic computer concepts related to landscape modules of site lesign and selection. (F, Sp) 3 AND 282 Computer Draft/Dsgn Land Arch 3 Prerequisite: None 3 This course assumes no previous computer experience. A beginning class for the individual interested in computers and what they can do for you in landscape lesign, maintenance, construction, plant selection, land survey, and cost estimating. AutoCAD will be surveyed and utilized for the computer-aided drafting and lesign portion of this course. (F, Sp, Su) 3 Prerequisite: LAND
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LANDCADD package. Site planning and the related modules in site analysis, coor-
dinate geometry, planting design, plant selection, and construction details will be
demonstrated and hands-on exercises will be completed. A 3-D landscape design
project will also be completed and plotted. (F, Sp)
LAND 284 Advanced LANDCADD 3
Prerequisite: LAND 283 2.0 minimum
This course continues the use of LANDCADD modules and project development.
This course continues the use of LANDOADD includes and project screeping the The student will complete detailed drawings utilizing the site planning package.
The student will complete detailed drawings diatang the and planning provage.
3-D customization will also be covered including solid modeling, macro com-
mands, line type creation, and customized symbol library. This is an advanced
LANDCADD class. (Sp)
LAND 285 Computer Landscape Animation 3
4.
Prerequisite: LAND 282 2.0 minimum
This course will familiarize the student with the animation aspects of computer
design and presentation. The student will learn to produce an animation project
using the latest computer technology. Students will also become familiar with the
integration of video and animation in various applications. (Sp)
LAND 286 LANDCADD: Photo Imaging 3

Prerequisite: None

This computer course will cover how to use photo-imagery and animation in a landscape design situation by way of lecture, video, and computer usage. Computer painting as well as imaging will be demonstrated. Various software will be utilized. (Sp)

LAND 289 Land Computer Design/Studio

Prerequisite: LAND 282 2.0 minimum

This course involves the use of computer animation presentation software in the three-dimensional arena. Various 3-D presentation softwares will be utilized to create graphic animations and presentations. (Sp)

LAND 295 Landscape Project Lab

Prereguisite: Department Approval This project lab is designed for students who wish to pursue a speciality area in landscape architecture beyond that which is offered in our ourriculum. Inquiry through research and design of landscapes is required. (F, Sp, Su)

Recommended: LAND 282

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LEGL 218 Litigation Specialties

Prerequisite: LEGL 211 2.0 minimum and LEGL 215 2.0 minimum Covers several specialty areas of law, for example personal injury, professional malpractice, products liability, workers' compensation, and no-fault auto insurance. Emphasizes role of legal assistant in these practice areas, including drafting of legal instruments. (F)

LEGL 219 Adv Busn Law for Acct Majors

Prerequisite: LEGL 215 1.0 minimum

Recommended: Accounting Background

This self-paced course is intended for students majoring in accounting who have a goal of becoming a Certified Public Accountant (CPA). This course covers the law of sales; commercial paper; security devices; debtor-creditor relations; bankruptcy; insurance; agency; partnership; corporations; wills, trusts and estates; employment regulation; real property; and accountant's liability. This course is taught via Computer Manager Learning (C.M.L.). (F, Sp)

LEGL 220 Internat Legal Issues/Organiza

Prerequisite: LEGL 215 2.0 minimum This class will introduce global issues and organizations from the legal perspec-

tive and related economic and ethical perspectives. Cases based on events from around the globe will be used to illustrate principles; structures, and perspectives of citizens from many countries. Students will examine how these topics impact their daily activities. (Sp)

LEGL 221 Real Estate Transaction

Prerequisite: LEGL 115 2.0 minimum and LEGL 215 2.0 minimum Covers fundamental principles of real estate property law and introduces the student to common types of real estate transactions encountered by a legal assistant

in a typical real estate practice. Subject matter includes deeds; land contracts, mortgages, title insurance, environmental issues, forfeitures and foreclosures, and landlord-tenant relationships. (F)

LEGL 222 Probate Law and Procedure 3

Prerequisite: LEGL 115 2.0 minimum and LEGL 215 2.0 minimum Probate process will be addressed in detail, from commencement of proceedings through closing the estate of a decedent. Other topics will include wills, trusts, and related topics. Emphasis is on the part played by the legal assistant in preparation of documents and other probate practice tasks. (Sp)

LEGL 223 Domestic Relations

Prerequisite: LEGL 115 2.0 minimum and LEGL 215 2.0 minimum In-depth study of marriage, divorce, separation, annulment, paternity proceedings, custody, support, property division, and other areas of domestic relations law. Emphasis will be on the legal assistant's role in dealing with clients and applying appropriate statutes, case law, and court rules as part of a domestic law practice. (Sp)

LEGL 224 Administrative Law

Prerequisite: LEGL 115 2.0 minimum and LEGL 215 2.0 minimum The relationship of governmental administrative agencies to private citizens is explored by studying how law is created and enforced by such agencies at the state and federal levels. Legal assistant students will focus on topics including rule making procedures, regulations, adjudication, licensing, and informal action. (F)

LEGL 225 Legal Research and Writing II

Prerequisite: LEGL 120 2.0 minimum and LEGL 121 2.0 minimum Reviews principles of legal research, analysis, and writing. Introduces student to computer-assisted legal research (e.g. LEXIS or Westlaw). Student will draft legal memoranda, opinion letters, and an appellate brief based on extensive research

assignments in federal and Michigan publications. Some classes may be at off-

LEGL 225 Legal Interview/Investigation

campus libraries. (F, Sp)

Prerequisite: LEGL 115 2.0 minimum and LEGL 215 2.0 minimum Interviewing and investigation methods including information gathering, analysis, and effective communication. Emphasis will be placed on the role of the legal assistant with numerous practical exercises. (Sp)

LEGL 227 Bankruptcy and Collections

Prerequisite: LEGL 115 2.0 minimum and LEGL 215 2.0 minimum Explores federal bankruptcy law and procedure with emphasis on the legal assistant's role in collecting information, interviewing clients, and preparing documents. Topics include a comparison of selected chapters within the bankruptcy code, exemptions, preferences, petitions, schedules, and the part played by the bankruptcy trustee. (Su)

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LEGI. 228 Computer Appl for the Law Ofc

Prerequisite: CABS 113 2.0 minimum and LEGL 120 2.0 minimum

Recommended: Windows 95 and Keyboarding Experience This course focuses on computer technology as it is applied within the law office, including the use of computers to perform legal assistant functions in litigation support, legal research, communication and case management applications, such as calendar and docket control. (F, Sp)

LEGL 229 Immigration Law

Prerequisite: LEGL 115 2.0 minimum or LEGL 215 2.0 minimum

Recommended: Reading Level 5 and Writing Level 6

This course covers fundamental principles and practical application of Immigration Law and procedure and prepares the student to work with clients from cultures around the world. Topics will include sources, history and future of immigration law, visas, citizenship, refugee/asylum, removal and defenses, and impact on other areas of law. (F, Sp)

LEGL 200 Legal Assistant Internship

Prerequisite: Department Approval

Student will experience the paralegal career by working as a legal assistant in a supervised capacity. Placements include private law firms, governmental law offices, courts, corporations, and other law-related settings. Requirements include at least 160 hours in the workplace, weekly reports, periodic meetings, and performance evaluations by on-site supervisor. (F, Sp, Su)

LING - Linguistics

LING 230 Introduction to Linguistics

Prerequisite: None

Examines human language from the perspective of contemporary American linguistics: generative syntax, phonology, and morphology. Special attention to the structure of English. Considers regional and social variation, and implications for teachers of language skills. (Sp)

MACH - Machine Tool Technology

MACH 100 Manufacturing Processes

Prerequisite: None

Recommended: MATH 050 or Math Level 4

This course provides students with a comprehensive study of the materials, concepts and processes used in modern manufacturing which is augmented by field trips to local manufacturing plants. This course is dasigned for those who are pursuing careers in manufacturing design, engineering and supervision. (F, Sp, Su)

MACH 105 Machine Tool Survey

Prerequisite: None

Recommended: MATH 050 or Math Level 4

Informs students of the machine tool principles and practices used in industry. Safety, terminology, measurement and procedures are used to complete required projects. A working knowledge of hand and machine tools is achieved through a series of lectures, demonstrations and hands-on projects. (F, Sp. Su)

MACH 110 Machine Tool Technology

Prerequisite: MACH 105 2.0 minimum

Informs students of shop safety, shop terminology, hand tools, machine tools, measurement and layout practices. To complete the course, a series of lectures, demonstrations and projects are used to guide the students. The competency required to successfully complete this course is at the apprentice level. (F, Sp)

MACH 111 Machine Tool Technology II

Prerequisite: MACH 105 2.0 minimum

Recommended: MACH 110

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This course is structured to apply hands on applications to metal working saws, mills, drills and surface grinders. Bench work and layout procedures with technical terminology and mathematical applications are developed to the technical level of an apprentice. (F, Sp)

MACH 112 Machine Tool Technology III

Prerequisite: MACH 110 2.5 minimum and MACH 111 2.5 minimum This course will use indexing, precision grinding, close tolerance milling, lathe work and broaching to complete the required projects. The student will accomplish these goals by using modern machine shop technology, applied math skills, planning and precision measuring instruments. (Sp)

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MACH 120 Effect Use Machinery Handbook	4 MASG 277 Polarity Therapy I
Prerequisite: None Recommended: MATH 114 or TECH 101. Machinery's Handbook has been recognized as the "bible" for metal working industry. This course will familiarize each studen utilization of information contained in Machinery's Handbook. (F	All phases of the twith the effective
MACH 130 Die Construction	4 energy flow within themselves and others. (F, MASG 278 Polarity Therapy II
Prerequisite: None Recommended: MACH 110 and MACH 111 This course will provide each student with a basic understandir principles of cutting and forming operations; die components punch plates, die blocks and strippers; and an in-depth knowlede and maintain the equipment common to the die industry. (Sp) MACH 135 Metallurgy and Heat Treat	ng of the essential such as punches,
Prereguisite: None	MASG 279 Business Applications/Masg
This course is designed to give students a working knowledge uses and heat treat processes of commonly used metals and principles of metallurgy presented apply to the design, selectio testing of metal products. (F, Sp, Su)	of the properties, alloys. The basic n, processing and This course introduces students to aspects of of massage and body work. Emphasis is plac- and personal business sense using planning relatives the properties the students by motiviting of
MACH 140 Tooling Theory and Practices	4 * relationships, emics, research, marketing str
Prerequisite: None Recommended: MACH 110 and MACH 111 This course examines tooling used in mechanical material remo- rials from high-speed steel to diamond will be discussed a Tooling geometry, resharpening methods, speeds and feeds, fa and problem diagnosis will be addressed. Students will analy mance and write up technical reports. (F)	nd demonstrated. Prerequisite: BIOL 145 2.5 minimum (previo ilure mechanisms minimum
MACH 194 Machine Tool Tech Project Lab	4 will be coupled with an introduction to the mo
Prerequisite: Department Approval Recommended: MACH 110 2.5 minimum or MACH 111 2.5 m An advanced course for students wishing to do in-depth work in	the machine shop
area or to develop trade-entry skills. Students select projects co individual fields of work. (Approval may be given to take this maximum of eight credits.) (F, Sp, Su)	
MACH 210 Prin Electric Discharge Mach	4 tions of the hurnan body. A review of anatomy
Prerequisite: None	will be coupled with an introduction to the mo

Becommended: MACH 105 and MACH 111 and CNCP 110 This course introduces the student to the fundamentals of Electrical Discharge

Machining (EDM). Safety, principles of operation, programming and operation of both Ram and Wire EDM are explored. Lectures, demonstrations and projects are used. Projects assigned will require setup, programming and operation of EDM machines. (F, Sp)

MACH 212 Compound Angles

Prereoutsite: MATH 114 2.0 minimum

Recommended: MATH 115 This course combines solid trigonometry, enabling students to solve problems involving angles in three-dimensional space in industrial applications. Emphasis on applications of actual tooling setups for complex machining operations is used to make the course relate to real life situations. (Sp)

MASG - Massage Therapy

MASG 270 Massage Therapy-Beginning

Prerequisite: None

Recommended: BIOL 145 2.5 minimum (previously ANAT 145)

This course introduces the student to Swedish massage. The student will learn basic theory, terminology, physiology, and full body techniques. (F, Sp. Su)

MASG 271 Massage Therapy-Intermediate

Prerequisite: MASG 270 2.5 minimum This course builds and expands upon the information and techniques learned in MASG 270. The student is introduced to a variety of specialized bodywork theories and techniques. (F, Sp. Su)

MASG 275 Touch for Health

Prereguisite: None

This course introduces the student to the combination of ancient Oriental principles combined with the modern practice of applied kinesiology. The student will learn basic muscle testing and techniques to balance the body's natural energies, thereby putting the body into balance optimizing overall health. (F, Sp)

therapy as a form of touch therapy ody. Hands-on application of polarity e covered. Guided meditations are hancing the student's ability to feel Sp)

anding of polarity therapy. Advanced aught to balance the various energy physical body. Lectures will be on the nd spiritual principles inherent in the

business and marketing in the field ed on development of a professional and persistence, client-prectitioner ategy, goal-setting, motivation, and

usly ANAT 145) and MASG 271 2.5

clinical and rehab massage techlogical conditions of the upper porand physiology relevant to massage pre commonly occurring pathological ies, and torso followed by the introloyed to treat those conditions. (F)

e clinical and rehab massage techological conditions of the lower porand physiology relevant to massage ore commonly occurring pathological conditions of the abdomen, pelvis, hips, lower extremities, feet, and other lower torso areas followed by the introduction of massage techniques typically employed to treat those conditions, (Sp)

MASG 285 Maternal/Infant Massage

Prerequisite: MASG 283 2.5 minimum Course includes massage techniques specifically beneficial to women during pregnancy, as well as in labor and post-partum recovery. Massage techniques beneficial to infants and young children will also be introduced. Will include supervised clinical practice in the women's / infants' inpatient care units of area hospitals. (F, Sp)

MASG 288 Sports Massage Techniques

Prerequisite: MASG 280 2.5 minimum or MASG 282 2.5 minimum or Concurrently The student will learn massage techniques and therapies beneficial to athletes. Pre- and post-athletic event modalities and athletic training massage are emphasized. Course includes relevant anatomy, physiology, pathology, massage applications, and protocol for setting-up events, Participation at instructor-approved sporting event required. (F, Sp)

MASG 290 Massage Lab Precticum

MATH 001 Math Minus Anxiety Workshop

Prerequisite: MASG 271 2.5 minimum or Concurrently

This course consists of supervised practice of massage techniques in basic massage, polarity therapy, clinical, and sports massage. This practioum course must be successfully completed three times to meet the 96 hours required for the Massage Therapy Certificate of Achievement. (F, Sp, Su)

MATH Mathematics

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Prerequisite: None

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This workshop addresses anxiety as it relates to mathematics. The session will focus on causes and management of math anxiety. Some problem solving and study skills will be included. Students at any math level may enroll. (F, Sp)

Prerequisite: Math Level 3 and Reading Level 3 and Writing Level 2

This course reviews mathematical operations involving fractions and decimals. Topics include percents, ratios, proportions, U.S. and metric measurements, integers, statistical graphs, Pythagorean Theorem, angles, perimeter, area, and volume. It also introduces algebraic concepts using expressions and equations. Problem solving, estimation, and reasoning skills are taught. The calculator and real-life applications are integrated throughout the course. (F, Sp, Su)

MATH 107 Introductory Algebra -

Prerequisite: (MATH 050 2.0 minimum or Math Level 4) and Reading Level 5 and Writing Level 2

Graphing calculator required. Topics include properties of real numbers and exponents, variable expressions, solving linear quadratic and absolute value equations, polynomial operations including factoring, graphing, rational expressions and equations, and inequalities. Graphing calculator, diverse, real-life applications, and geometry are integrated throughout the course. (F, Sp, Su)

MATH 112 Intermediate Algebra

Prerequisite: (MATH 104 2.0 minimum or MATH 107 2.0 minimum within 2

years or Math Level 5) and Raading Level 5 and Writing Level 4 Intermediate Algebra is an extension of Beginning Algebra with emphasis on diverse, real-world applications. This includes solving linear, quadratic and exponential functions algebraically and graphically. Rational exponents, radicals, equations, inequalities, systems of equations, matrices and complex numbers are included. The T1-83 or T1-83Plus graphing calculator is required. (F, Sp, Su)

MATH 114 Technical Math I

Prerequisite: (MATH 050 2.0 minimum within 2 years or Math Level 4) and Reading Level 3

This course introduces and/or reviews algebra, geometry, and trigonometry. Topics include order of operations, simplifying algebraic expressions, powers, roots, formulas, area, volume, ratio and proportion, linear and quadratic equations, linear systems of equations, graphing, anglès, triangles, Pythagorean Theorem, and right triangle trigonometry. Emphasis is placed on problem-solving techniques for technical applications. (F, Sp, Su)

MATH 115 Technical Math II

Prerequisite: MATH 114 2.0 minimum within 2 years and Reading Level 5 and

A continuation of MATH 114. Topics include: congruent and similar triangles; polygons; circles with angles, chords, and tangents; applications of right and oblique triangles using the Pythagorean Theorem, trig functions, law of sines, law of cosines, and law of cotangents. Emphasis is placed on problem-solving techniques for technical applications. (F, Sp, Su)

MATH 117 Math for Business

Prereguisite: (MATH 104 2.0 minimum or MATH 107 2.0 minimum within 2

years or Math Level 5) and Reading Level 5 and Writing Level 4 This course surveys math applications in business. Applications representing management, marketing, finance, accounting, and statistics are used. Analysis of situations in business and correct use of business theory is emphasized in addition to accuracy in math. (F, Sp)

MATH 118 The Art of Geometry

Prerequisite: (Math 107 2.0 minimum within 2 years or Math Level 5) and Reading Level 5 and Writing Level 4

This course emphasizes visualization and appreciation of the beauty of mathematics through geometry; translates between visual and symbolic representations of objects used in visual arts; applies mappings, symmetry, similarity, tilings, vectors, and geometric constructions of shapes to working with 2D and 3D figures; uses geometry software, hands-on techniques and models. (F, Sp)

MATH 119 Investigations With Math

Prerequisite: (MATH 107 2.0 minimum within 2 years or Math Level 5) and Reading Level 5 and Writing Level 4

Uses strategies of arithmetic, geometry, and algebra to solve problems and effectively communicate solutions in a variety of occupational disciplines. Applies reasoning, problem solving, tearnwork, mathematical thinking and modeling, visual models, and hands-on activities to measurement, proportions, percents, graphs, formulas, variables, geometry concepts, coordinate systems, and statistical reasoning and probability. (F, Sp)

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MATH 121 College Algebra I

Prerequisite: (MATH 112 2.0 minimum within 2 years or Math Level 6) and Reading Level 5 and Writing Level 4

This course provides the foundation in college algebra essential for all subsequent mathematics courses. (After completing MATH 121, students may take MATH 122, 130, 141 and STAT 170.) Topics include polynomial, rational, radical, exponential, and logarithmic functions; solving equations/inequalities algebraically and graphically; and mathematical modeling/regression in problem solving; (F, Sp, Su)

MATH 122 College Algebra II and Trig

Prereguisite: (MATH 121 2.0 minimum within 2 years or Math Level 8) and Reading Level 5 and Writing Level 4

Second in two-course sequence, following MATH 121. Topics include right triangle trigonometry, trigonometric functions, graphs, identities and equations, inverse trig functions, laws of sines/cosines, binomial theorem, systems of linear equations, vectors, polar coordinates, sequences, series, permutations, combinations. Degree credit may not be earned in both MATH 121-122 and MATH 126. (F, Sp, Su)

MATH 126 College Algebra and Trig

Prerequisite: (MATH 112 3.5 minimum within 2 years or Math Level 7) and Reading Level 5 and Writing Level 4

Intensive course covering the same material as MATH 121-122. Topics include algebraic and transcendental functions, solving equations/inequalities algebraically and graphically, mathematical modeling, trigonometric identities, laws of sines/cosines, binomial theorem, vectors, polar coordinates, sequences, series, permutations and combinations. Degree credit may not be earned in both MATH 126 and MATH 121-122. (F, Sp, Su)

MATH 130 Finite Mathematics

Prerequisite: (MATH 112 2.0 minimum within 2 years or Math Level 6) and Reading Level 5 and Writing Level 4

This course is for students whose programs do not require trigonometry. Topics include linear, exponential, quadratic, polynomial and logarithmic functions, mathematics of finance, matrices, linear programming, permutations, combinations, probability, and Markov chains. In addition, students will solve applied problems by completing required computer assignments. (F, Sp, Su)

MATH 141 Calculus with Applications

 Prerequisite: (MATH 121 2.0 minimum or MATH 128 2.0 minimum or MATH 130 2.0 minimum within 2 years or Math Level 8) and Reading Level 5 and Writing Level 4 p

This course provides an introduction to calculus with an emphasis on applications in business, economics, social/life sciences and other fields not requiring an extensive study of calculus. Topics include functions, derivatives, the definite integral and their applications. (Mathematics, Physical Science, Computer Science, and Engineering majors should take MATH 151.) (F, Sp, Su)

MATH 151 Calculus I

Prerequisite: (MATH 122 2.0 minimum or MATH 126 2.0 minimum within 2

years or Math Level 9) and Reading Level 5 and Writing Level 4 The first course in a three semester calculus sequence. Topics include limits, continuity, derivatives of algebraic, trigonometric, exponential and logarithmic functions, linear approximation, integration and the fundamental theorems of calculus. Applications of the calculus to both physical and geometric problems are emphasized. (F, So, Su)

MATH 152 Calculus II

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Prerequisite: MATH 151 2.0 minimum within 2 years and Reading Level 5 and Writing Level 4

The second course in a three-semester calculus sequence. Topics include techniques and applications of integration, L'Hopital's rule, derivatives of inverse trigonometric functions, improper integrals, sequences and infinite series, power series representation of functions; conic sections, and polar coordinates. (F, Sp. Su)

MATH 201 Math for Elemen Teachers I

Prerequisite: (MATH 112 2.0 minimum within 2 years or Math Level 6) and Reading Level 5 and Writing Level 6

This course is the first in a two-course sequence providing mathematical background for prospective elementary teachers. Emphasis is on active engagement in mathematical investigations to develop problem-solving skills and conceptual knowledge essential for teaching elementary school mathematics; (F, Sp)

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MATH 202	Math for Elemen Teachers II	

Prerequisite: MATH 201 2.0 minimum within 2 years and Reading Level 5 and Writing Level 6

This course is the second in a two-course sequence providing mathematical background for prospective elementary teachers. Emphasis is on active engagement in mathematical investigations to develop problem-solving skills and conceptual knowledge essential for teaching elementary school mathematics. (Sp)

MATH 253 Calculus III

Prerequisite: MATH 152 2.0 minimum within 2 years and Reading Level 5 and Writing Level 4

The last course in a three-semester calculus sequence. Multivariable calculus and vector analysis are studied. Topics include vector algebra, curves and surfaces in 3-space, vector valued functions, partial derivatives, multiple integrals, and line integrals. Applications of all these topics are presented. (F, Sp, Su)

MATH 254 Intro: Differential Equations

Prerequisite: MATH 253 2.0 minimum within 2 years and Reading Level 5 and Writing Level 4

An introduction to the basic methods for solving ordinary differential equations. Topics include the methods of undetermined coefficients, variation of parameters, series, Laplace transforms, and numerical methods. Applications are emphasized. (F, Sp, Su)

MATH 260 Linear Algebra

Prerequisite: MATH 253-2.0 minimum within 2 years and Reading Level 5 and Writing Level 4

This introduction to linear algebra includes the study of systems of linear equations, matrix algebra, vector spaces, linear transformations, eigenvalues and eigenvectors, with applications. (Sp)

MATH 281 Honors Math Seminar I

Prerequisite: MATH 151 2.0 minimum and Department Approval Students solve a set of challenging mathematics problems which are not normally encountered in other classes. Creative and independent thinking is encouraged and developed. (Sp)

MATH 282 Honors Math Seminar II

Prerequisite: MATH 281 2.0 minimum and Department Approval

Students solve a set of challenging mathematics problems which are not normally encountered in other classes. Creative and independent thinking is encouraged and developed. (Sp)

MATH 295 Indep. Study in Mathematics

Prerequisite: Department Approval

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (F, Sp, Su)

METR - Meteorology

METR 220 Introduction to Meteorology

Prerequisite: Reading Level 5 and Writing Level 4 and Math Level 5

This course includes a study of the interrelationships of the elements (temperature, moisture, pressure, wind) that create weather. Human-atmospheric interactions (e.g., pollution, severe weather, greenhouse effect), world climate, and climatic change are also discussed. Laboratory includes making weather observations and measurements and learning how to draw and interpret weather maps. (Sp)

MEGM - Manufacturing Maintenance

MFGM 101 Industrial Hydraulics

Prerequisite: None

Industrial hydraulics introduces the theory of fluid power and circuits covering pumps, pressure valves, flow valves, cylinders, filters and motors, etc., as they are used in industry today. This will be done with lectures and labs related to each of the respective components. (F, Sp)

MFGM 102 Industrial Pneumatics

Prerequisite: None

Introduces the students to the theory of industrial pneumatic systems. The theory of gas laws, pumps, filters, valves, etc., will be discussed as they are applied to the industrial pneumatics systems. The use of lecture and labs will give the students a hands-on approach to the use of pneumatics. (F, Sp)

MFGM 110 Machine Maintenance I

Prerequisite: None

Theory and industrial application of machine repair, preventive maintenance, safe practices and troubleshooting, with actual dismantling and rebuilding of tool room machines. (F, Sp)

MFGM 111 Machine Maintenance II

Prerequisite: MFGM 110 2.0 minimum

Advanced theory and practice of machine tool repair including preventive maintenance. The theory and repair of pumps and pneumatic tools will be covered. (F, Sp)

MFGM 120 Industrial Presses

Prerequisite: None

Covers different types of mechanical presses, terminology, purposes and functions in industry. Includes movies and slides of mechanical action, maintenance systems and safety, supplemented by visits to plants using presses and press repairs. For mechanical trades apprentices, press repair and maintenance people, stamping plant employees, press operators and die setup employees. (F, Sp)

MFGM 125 Rigging

Prerequisite: None

Covers uses and strengths of ropes, chains, block and tackles, and the construction and erection of gin poles, with a study of rope knots used in rigging. Safe working strength of slings, hooks, sheaves, ropes and chains, and the use of personal safety equipment will be covered. (Sp)

MFGM 170 Fork Lift Truck Driver Train

Prerequisite: None

Students will learn the basic safety guidelines and basic operational procedures of industrial fork trucks The instruction will combine lecture, written materials and hands-on operation of a fork truck, (F, Sp, Su)

MFGM 250 Manufacturing Internship

Prerequisite: Department Approval

Recommended: 2.5 GPA or greater

This course provides Manufacturing students with practical work experience in industry. Students work for an employer in a supervised environment which provides an opportunity to apply knowledge and skills learned in the classroom and lab to an actual job situation. (F, Sp)

MGMT - Management

MGMT 101 Management Special Topics

Prerequisite: None

This course explores recently identified current issues, knowledge, skills, attitudes and/or behaviors relevant to the professional development of managers and management students. (F, Sp, Su)

MGMT 150. Managing Customer Relations

Prerequisite: None

This course is designed to help customer service workers and managers explore the dynamics of customer service and customer relations. The course includes strategies for providing for customers needs, behavioral skills and knowledge for effective customer service, verbal and non-verbal skills for effective customer communication, and techniques for measuring success. Focus is on the dynamics of building successful relationships. (F)

MGMT 200 Creative Thinking for Business

Prerequisite: None

Recommended: Have Taken at Least Two or More BUSN, MGMT or Business Experience

This course takes an experiential approach to helping students understand and explore the elements of the creative process. It is designed to develop skills, eliminate barriers, and allow students to apply thinking skills to business situations. (F, Sp)

MGMT 223 Developing Supervisory Skills

Prerequisite: None

This course presents supervisory principles and practices for first-line supervisors. Emphasis is on developing interpersonal and first line supervisory skills. Managerial functions of planning, organizing, staffing, directing, and controlling are introduced, along with policies, decision-making, and the responsibilities of supervisors for overall work performance and employee development and evaluation. (F, Sp)

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MGMT 224 Human Resource Management Prerequisite: None

This is a survey course which examines the role of human resources management and its contribution to the total management effort. Emphasis will be placed on the evolution of human resource management, recruitment and selection, appraising and improving performance, compensation and incentives, safety and health, employee-management relations, and current legislation. (F, Sp)

MGMT 225 Principles of Management

Prerequisite: None

This course assists students and current managers in developing an understanding of the skills required to manage effectively in today's workplace. Designed to reflect the dynamics of our changing world, the course covers such topics as management functions/processes, quality, ethics, global issues and the challenges and opportunities of diversity. Emphasis is on theories and skills of the middle management and organizational level. (F, Sp)

MGMT 227 Training/Development for Busn Prereguisite: None

Training and development for business is a course designed to cover all aspects of training in the business environment. The course will focus on assessing training needs, identifying training barriers, curriculum design, instructional techniques, evaluation, and adult learning theory. (Sp)

MGMT 228 Organizational Behavior

Prerequisite: None

Examines the dynamics of relationships at work. Integrates and applies behavioral and social science knowledge, using a systems approach, and focusing on the nature of both people and organizations. Students will study individual and group behavior and will have opportunities to work on skills necessary for successful interaction in organizations. (F, Sp)

MGMT 229 Compensation Management	3
Prerequisite: MGMT 224 1.0 minimum	

Recommended: LABR 204

Students will gain a practical understanding of the principles and applications of compensation management. Students will study the theories, behaviors, and legal constraints affecting compensation practices, including job analysis, job evaluation methodologies, labor market surveys, variable pay approaches, and the administration of legally mandated and voluntary employee benefit programs. (F)

MGMT 231 Team Development

Prerequisite: None

This course defines and examines team building, team leadership, and self-managed teams in the context of today's workplace. Students develop skills in writing team mission and vision statements, and team goals and action assignments. Students will develop skills in chartering, problem solving, decision-making, conducting effective meetings and work sessions, negotiating, and presenting. (F, Sp)

MGMT 234 Diversity in the Workplace

Prerequisite: Reading Level 5

This course explores cultural, gender/sexual, physical, and other minority experiences in the workplace and in the world. The management of human resources will be examined from a global perspective. Emphasis is on helping the majority and the minority become aware of the other's opinions, feelings, and perspective. Instruction takes an experiential, awareness training approach. (F, Sp)

MGMT 235 Independent Study/Management 1-3

Prerequisite: Department Approval

Students design and implement special research projects to apply personal and professional experience to an academic area of interest, linking theory with practice. Students meet with coordinator and work independently towards completion of project report. Students should plan a minimum 16 hours per credit and ten pages of report per credit. (F, Sp, Su)

MGMT 237 Managing/Continual Improvement

Prerequisite: None

Provides an introduction to concepts of quality, continual improvement, systems thinking, and other new management practices. Covers the history of the quality movement including key thinkers/leaders. Explores new ways of thinking and leading, methods for continual improvement teams, and "learning organizations". (F, Sp)

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MGMT 239 Time and Stress Management

Prereguisite: None

Explores relationship between time and stress management: stress is the causal factor for many of our physical and psychological problems. Suggests methods for harnessing its energy positively. Techniques and strategies for wise utilization of time and energy. Emphasis on creating action plan and initiating corrective actions. (F, Sp)

MGMT 240 How Manager Make Things Happen

Prerequisite: None

This practical skills-building program concentrates on the functions that most often determine management success. Students will learn how to improve their performance in key areas by analyzing their job, breaking it down into functional components, spotting weaknesses, and taking concrete action to turn them around. (F. Sp, Su)

MGMT 241 How Successful Women Manage

Prerequisite: None

This course is an overview of the various functions and processes involved in management. Students will explore possible explanations for women's slow rate of progress in attaining managerial positions. It is enlightening and an absolute must for any woman who is considering entering or is now a part of management. (F, Sp, Su)

MGMT 242 Mgrs Guide/Working With People

Prerequisite: None

Managers who want to work effectively with people—both on and off the job—will find this course full of valuable information. Students will acquire an understanding of human needs and motivation, leadership styles, problem-solving techniques, and effective methods for being assertive. Students will also learn how to deal with difficult behavior through positive work strategies. (F, Sp, Su)

MGMT 243 How to Delegate Effectively

Prerequisite: None

This course will show students how to increase their productivity through delegation. It is designed to increase comfort with the delegation process and demonstrates how this method of organizing and dispersing work can help improve everyday job performance. (F, Sp, Su)

MGMT 244 Supervisory Management

Prerequisite: None

This course is designed to help managers at all levels to develop, enhance and update their skills. Major areas of emphasis include planning, operating, controlling, personnel functions, decision-making, job design, job analysis, and quality control within the department. (F. Sp. Su)

MGMT 245 Leadership Skills for Managers

Prerequisite: None

In this course, the student will discover the secrets of great leadership and learn about the four basic leadership styles. You will master the art of goal setting, find your most effective leadership style, and know when to use the right style at the right time. (F. Sp. Su)

MGMT 246 Effective Performance Mgmt

Prereguisite: None

An organization's success often rests on the management of its staff. This course provides managers with comprehensive ideas and techniques for human resources programs that impact productivity and profits within the organizational environment: (F, Sp, Su)

MGMT 247 Project Management

Prerequisite: None

Gain a comprehensive understanding of the techniques and methodology needed to plan and control any project—large or small—in any industry. Students will examine both basic and sophisticated tools and learn how to use those tools as decision aides during a project's tracking and controlling phase. (F, Sp, Su)

MGMT 248 Team Building

Prerequisite: None

More than ever, teams are a vital force in today's working environment. This course presents positive, practical methods for building and managing effective teams. Learn how to build trust, confidence, and group work skills and how to balance and fine-tune the team process. Students will focus on key aspects of team building, ranging from recruitment to empowering team members with authority and responsibility. (F, Sp, Su)

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MGMT 249 Dealing with Difficult People	- 1	MGMT 261 Psychol
Prerequisite: None Discover how seasoned managers cope with difficult personalities in the v place. This course covers effective communication and motivational and co resolution approaches used by experienced managers. Students will also how to avoid difficult behaviors by instituting positive work strategies, struct and values before problems develop. (F, Sp, Su)	inflict learn	Prerequisite: None This course helps st beyond positive thinl unlocks inner power. I salespeople and wha
		MGMT 262 Keep Sa
MGMT 250 Fundament Fin/Acct/Non-Fin Mgr Prerequisite: None Provides the manager with an understanding of finance. This course will help	2 stu-	Prerequisite: None This course is desigr The ultimate goal of t
dents learn to read and interpret financial statements, annual reports, and bal sheets. It will also teach students to use financial and accounting data more e tively. (F, Sp, Su).	ance .	cate effectively with c MGMT 263 Success
		Prerequisite: None
MGMT 251 Communication Skills for Mgrs	1	Marketing concepts to
Prerequisite: None All managers have a basic tool they can use to effectively get messages acro staff and colleagues: communication. This course presents practical applica for communicating such as writing effective letters, memos and reports, rur	tions	the service sector. Le for services. This cou who need to sharpen
meetings, conducting interviews, and listening. (F. Sp, Su)	mang	MGMT 264 How to V
MGMT 252 Deliver a Winning Presentation	1	Prerequisite: None This course is design
Prérequisite: None		managers, product m
This course will provide the student with a basic awareness of the steps no sary for making an effective oral presentation. It is designed for anyone who was to reduce the fear of public speaking by learning how to deliver presentation See Sub	vants	plan. Students will lea is right for their produ Su)
Sp, Su)		MGMT 265 WWW S
MGMT 253 How to Write Winning Reports	1	Prerequisite: None This course is design
Prerequisite: None This course helps students develop a more concise, straight forward writing It will help the student express ideas more clearly in business memos, letters reports. (F, Sp, Su)		edge-the information World Wide Web, with introduced to web pa learning or reading. (I
MGMT 254 How to Write a Business Plan	2	ANCRAT OCC. Enter ini
Prerequisite: None		MGMT 266 Enter Int
This course is designed for managers who want to give real meaning and p to their organization's business plan. Participants will learn how to develop re tic action programs and responsibility plans for allocating scarce resou installing workable monitoring and control systems, and creating supportive cles and procedures. (F, Sp, Su)	ealis- rces,	Prerequisite: None International trade an help the student to ca research resources, li It is designed for the i bottom line. (F, Sp, Si
MGMT 256 Strategic Plan/Entrepren Busn	1	MGMT 268 Organizi
Prerequisite: None Owners and managers of new and growing businesses, or of companies that of ate within an entrepreneurial environment, will learn how to prepare a stra- plan. Students will learn about organizational charts, goal-setting matrices, nostic summary sheets, and checklists—all designed to help them create a that works. (F, Sp, Su)	tegic diag-	Prerequisite: None Organization is a skill much as 20 percent or ronment. This course ties. The student will of way we work. (F, Sp,
MGMT 257 Using Math as a Business Tool	1	MGMT 270 Time Ma
Prerequisite: None This course is designed to increase familiarity with formulas and calculations frequently used in business. Participants will learn to apply various ratios to t company's strength, use statistical tools to read results more accurately, for more reliably, and assess the viability of a project through break-even analysis	est a ecast	Prerequisite: None Time management te situations. Learners v also become aware o niques, and ways to r
Sp, Su)		NACINE OT MACRO

MGMT 258 Strategic Resumes

Prerequisite: None

The resume is a sales tool for finding new career opportunities. Students will rethink their personal marketing tool, develop strategies, marshal resources, and create a packaged strategic, concise resume to help the applicant stand out and be noticed, (F, Sp, Su)

MGMT 260 How to Analyze the Competition

Prerequisite: None

This course will enable students to pinpoint competitors' strengths and weaknesses so students can identify and act upon competitive challenges before they occur. The course assists students in the design, implementation, and management of a competitor "Intelligence" system. (E, Sp, Su)

ogy of Selling/Winning

udents realize their full potential for total success. It goes king or other motivational programs to offer the key that It teaches participants what to do to become top professional t they should do in order to sell successfully. (F, Sp, Su)

tisfied Customers

ned to help simplify the task of keeping customers satisfied. his course is to help improve students' abilities to communiustomers. (F, Sp, Su)

ful Marketing/Serv Org

ong associated with manufactured goods are now applied to earn how to create services for markets rather than markets irse is designed for service company managers and others their competitive edge. (F, Sp, Su)

Write a Marketing Plan

ned for future or current small business owners, marketing nanagers, and others responsible for creating the marketing irn how to fuse vital elements to create a marketing plan that ct line, service department, company, or organization. (F, Sp,

kills: Busn/Personal Dev

ned for individuals who wish to benefit from online knowln superhighway. Included is a highly visual introduction to the Windows overview and basic WWW skills. Students will be age creation. The course is designed for interactive WWW F, Sp. Su)

ternational Markets

nd marketing is growing rapidly in business. This course will apitalize on "going global" by providing information on how to earn terminology, and develop foreign market entry strategy. individual entrepreneur or a manager wishing to improve the U)

ing Your Workspace

that is easy to learn. Personal productivity is reduced by as or more from ineffective organization of the workspace enviis for anyone who experiences "clutter" in their daily activiget organized and stay organized as technology impacts the Su)

inagement

chniques can be applied to both personal and professional will discover basic principles of time management, and will of positive and negative stress, relaxation and balance techeduce stress through changes in lifestyle. (F, Sp, Su)

MGMT 271 Managing/Resolving Conflict

Prerequisite: None

Conflict can be managed and yield positive results. Students of this course will gain practical knowledge, learn proven techniques, and acquire psychological insights they can use to resolve conflicts successfully. This course uses case studies, critical incidents, and realistic examples of conflict resolution to teach crucial skills, (F, Sp. Su)

MGMT 272 Success Through Assertiveness

Prerequisite: None

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This course will help to put participants in command of their career in order to respond to difficult situations according to individual desires, interests, and feelings. Participants will learn how being properly assertive at the right times and in the right place can help them achieve their goals. (F, Sp, Su)

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	lege	sing Community
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MGMT 273 Assess Prsnal Interactn Skills		MGMT 329 Adv Mgmt Communication Skills
Prerequisite: None		
This course is designed to increase awareness of personal styles and preferences		Prerequisite: None Recommended: Have Taken Previous MGMT Courses, and/or are Enrolled in
for interacting with others. It is also designed to heighten awareness of styles and		the Northwood 3+1 Program; or Have Management Work
preferences of people with whom the student interacts daily. (F, Sp, Su)		Experience
		This is an advanced course in interpersonal communication skills for busines
MGMT 274 Personal Financial Planning 2		includes components of listening, interpersonal communication, oral prese
Prerequisite: None		tions, interviewing techniques, meeting management, business report writing.
This course will show students how to start building financial security. It empha-		persuasive speaking. This class is both informational and experiential. (F, Sp)
sizes spending strategies and capital-building techniques rather than housekeeping methods. The course is designed for anyone. (F, Sp, Su)		
ang methoda, the course is designed for anyone, (r, sp, su) ;		MGMT 332 Ethics: Assumpt for the Future
MGMT 275 How to Build Memory Skills 1		Prerequisite: None
Prerequisite: None		Recommended: Have Taken Previous MGMT Courses, and/or are Enrolled in
This course is designed to help the student apply the skills that increase ability to		the Northwood 3+1 Program, or Have Mariagement Work
obtain and utilize information. The result of using improved listening and memory		Experience This course is designed to sensitize participants to the impact of ethics on c
skills will help realize leadership potential. (F, Sp, Su)		sion-making. Participants will examine values and assumptions, both personal
MGMT 976 Now to Improve Missing Chille		organizational, which influence management and leadership style. Exploratio
MGMT 276 How to Improve Writing Skills 1		the importance of intention and right relationships in strategy and the creatio
Prerequisite: None		the future workplace is also included. (F, Sp)
This course helps students strengthen their skills in key communication areas by knowing how to properly use words and phrases associated with business. (F, Sp,		
Su)		MGMT 335 Managerial Statistics
		Prerequisite: None
MGMT 277 Speed Learning 1		Recommended: Have Taken Previous MGMT Courses, and/or are Enrolled in
Prerequisite: None		the Northwood 3+1 Program, or Have Management Work
This course offers an entirely different way to read that reduces reading time while		Experience
increasing comprehension. It teaches how to organize thinking systematically so		This course covers applications of statistical tools and techniques to improve n
the reader can learn quickly and efficiently in all reading situations. (F, Sp, Su)	<	agerial decision-making processes. It includes basic descriptive statistics, pr
MGMT 278 Creative Fund-Raising 2		bility, probability distributions, confidence intervals, hypothesis testing, analys variance, regression analysis and forecasting models. (F, Sp)
		variance, regression analysis and releasing models. (r. op)
Prerequisite: None As traditional funding sources become scarce, creative fund-raising is critical for		MGMT 337 Human Resource Mgmt Skills
an organization's survival. This course will guide the student through the process	-	Prerequisite: None
of defining fund-raising in an organization, identifying grant resources, and devel-		Recommended: Have Taken Previous MGMT Courses, and/or are Enrolled i
oping donors through special events. The student will design a strategic fund-rais-		the Northwood 3+1 Program, or Have Management Work
ing plan for the solicitation and creative utilization of resources. (F, Sp, Su)		Experience
MGMT 279 Learn APA Write Style for Bus 1		Skill areas involved in the management of human resources are develo
		Techniques for setting objectives with employees, conducting performa
Prerequisite: None This course offers a self-paced, hands-on opportunity to learn the rules and style		appraisals, and working with employee problems are practiced. Students
of the Publication Manual of the American Psychological Association. Practice is		techniques for managing teams and for leading and motivating employees. (F,
emphasized, not memorization, allowing the student to use APA as a skill or tool		MGMT 338 Current Topics in Management
for improving business report writing skills. (F, Sp, Su)		
MONT ODD Management little and the		Prerequisite: None Recommended: Have Taken Previous MGMT Courses, and/or are Enrolled i
MGMT 280 Management Internship 3		the Northwood 3+1 Program, or Have Management Work
Prerequisite: Department Approval		Experience
Recommended: Have Completed a Minimum of 30 Credits	· .	Study of specific current topics and issues that affect managerial/leadership of
This course provides an opportunity to apply classroom learning to a career- related position by working a minimum of 160 hours at an approved work site. A		sions. Students explore internal and external constraints on actions. External
student may do an internship at his/her own job only if the duties are new, man-	×* .	tors considered include legal, social, educational, and political. Internal fac
agement related, and provide an appropriate learning situation. (F, Sp, Su)		include shareholders, employees, and customers. (F, Sp)
MGMT 300 Leading for Possibility 3		MGMT 339 Mgmt Styles/Corp Strategies
Prerequisite: Norie		Prerequisite: None
Recommended: Have Taken Previous MGMT Courses, and/or are Enrolled in		Numerous current materials relating to management styles and corporation str
the Northwood 3+1 Program, or Have Management Work Experience		gies in Japan will acquaint the student with management as practiced in Ja
Provides an overview of the changing roles of leadership within an organization		Japanese management practices are presented as an alternative managerial
and lays a foundation for exploration of the emerging roles and functions of lead-		for the United States to explore. (This course is offered only as part of the Ja Adventure Program.) (Sp, Su)
ership in today's changing environments. Theories and skills are applied to a vari-		
ety of organizational settings. (F)	Į.	MGMT 345 Context and Transformation
MGMT 304 Organizational Development 3		Prerequisite: None
	ł	Recommended: Have Taken at Least Three or More BUSN or MGMT Course
Prerequisite: None Recommended: Have Taken Previous MGMT Courses and/or are Enrolled in		or are Enrolled in the Northwood 3+1 Program, or Have
the Northwood 3+1 Program, or Have Management Work	Ľ	Several Years Business Experience
Experience		This course is designed to help people of vision and courage examine the bell
Based on the assumption that all managers must recognize, plan for, and manage		principles, and behaviors which drive organizations. In seminar format, particularly and the seminar format, particularly
organizational change, this course examines the process of improving organiza-		pants investigate possibilities for new ways of thinking together, foousing
tion effectiveness by means of a systematic change program. Students practice		emerging perspectives of ourselves, our organizations, our communities, and
identifying problems, selecting appropriate interventions, building action plans,		world. Students explore the growing importance of environment in creating a
		text for transformation (E. Sn)
and developing facilitator skills. (F, Sp)		text for transformation. (F, Sp)

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MGMT 346 Managerial Finance

Prerequisite: Norie

Recommended: Have Taken Previous MGMT Courses, and/or are Enrolled in the Northwood 3+1 Program, or Have Management Work

Experience

This course is designed to provide necessary and practical skills to deal with financial matters and communicate with people who specialize in finance. Topics covered include basic financial analysis, short-term and long-term financing, financial planning, and managing the finance function. (F, Sp)

MGMT 348 Strategic Management/Policy

Prerequisite: (MGMT 225 1.0 minimum or MGMT 300 1.0 minimum) and Any

MGMT Course Between MGMT 304 - 346 (Inclusive) 1.0 minimum This course pulls together learning from the areas of management and marketing to gain an overall organizational perspective which is applied to strategic plan formulation and implementation for the whole organization. The process involves pursuing organizational mission while managing the relationship of the organization to its environment. (F)

MILS - Military Science

MILS 101 Leadership: Military Professn

Prerequisite: None

This course analyzes the military profession and organization of the U.S. Army from several academic perspectives and explores the technical, ethical, and personal ramifications of service as an officer in the U.S. Army. This course provides an introduction to military leadership which draws upon examples from military history. (F, Sp)

MILS 102 Leadership:Wildernss Survival

Prerequisite: None

This course includes but is not limited to psychology of survival, survival planning, survival kits; procurement of food, shelter, and water; fire craft; field expediant weapons, tools and equipment; desert/tropical/cold weather survival and basic survival medicine. Hands on experience, (F, Sp)

MILS 201 Leadership: The Militry Leader

Prereguisite: None

This course examines individual leadership development using standardized assessment technology to evaluate potential to command and lead. Communications, administrative, personal relations and decision-making skills training, ethical career assessment, and sources of professional obligation will be reviewed: -Lab includes rappelling and smallbore rifle marksmanship. (F, Sp)

MILS 202 Intro to Land Navigath/Tectics

Prereguisite: None

This course addresses the basics of reading military topographic maps, basic land navigation, and small unit tactics. (F, Sp)

MKTG - Marketing

MKTG 100 Current Issues in Business

Prerequisite: None

This is an introductory course designed to enhance a student's occupational preparedness and competence by promoting a better understanding of the competitive enterprise system. Classroom instruction will be combined with relevant marketing projects and professional community involvement to give students a solid foundation of marketing knowledge and managerial "know-how." (F, Sp)

MKTG 101 Marketing Special Topics

Prerequisite: None

This course explores recently identified current issues, knowledge, skills, attitudes and/or behaviors relevant to the professional development of professionals in the marketing field and students of marketing. (F, Sp, Su)

MKTG 119 Mktg/Manage Your Profess Image Prerequisite: None

This course is a complete guide for everything people and their companies need to know to do the right thing at the right time in every business situation. Students will understand the importance of a professional image as it relates to business success and will develop a personal image development plan. (F, Sp)

MKTG 120 Sales

Prerequisite: None

This course presents the fundamentals of selling. Topics include the basics of sales, motivation, and human relations. The course is designed so that students will not only learn about selling, but to be able to do it. (F, Sp)

MKTG 122 Field Sales Internship

Prerequisite: Department Approval

Recommended: Have Completed a Minimum of 30 Credits

This course provides an opportunity to apply classroom learning-to a careerrelated position by working a minimum of 160 hours at an approved work site. A student may do an internship at his/her own job only if the duties are new, sales related, and provide an appropriate learning situation. (F. Sp. Su)

MKTG 130 Retailing

Prerequisite: None

Students will gain understanding of activities and strategies used in selling goods to ultimate consumers. The course develops an awareness of problems facing retailers and explores feasible solutions. Career opportunities in retailing are examined, (F. Sp)

MKTG 131 Merchandising

Prerequisite: None

This course covers functions and policies of: what, when, where, how much, how to, and from whom to buy. The course provides introduction to merchandising, merchandise management, store management and operations, how to evaluate and set up effective controls, and new trends in merchandising. Career opportunities are also explored. (Sp)

MKTG 140 Introduction to Advertising

Prerequisite: None

Methods and techniques used in modern advertising. Information on the entire advertising function. Preparation of an advertising campaign will be required to facilitate hands-on understanding of the component parts which include marketing review. marketing plan, creative strategy, and media selection. (F, Sp)

MKTG 200 Principles of Marketing

Prerequisite: None

Recommended: BUSN 118

Designed to define marketing, develop an understanding of the marketing concept and functions, and generally investigate the field of marketing. Will cover the marketing environment; identifying consumer needs; examining product, price, promotion; and distribution strategies within our society. Provides a basic marketing understanding with practical applications. (F, Sp, Su)

MKTG 202 Managerial Marketing

Prerequisite: MKTG 200 f.0 minimum

Recommended: MKTG 204 and Second Year Student

The course focuses on the solution of marketing problems through case analysis. It relates marketing to the total enterprise by analyzing problems, and suggesting approaches to business decision-making. Particular attention is paid to the elements of the marketing mix and how marketing management deals with these variables. (Sp)

MKTG 204 Marketing Research

Prerequisite: MKTG 200 1.0 minimum Types of data, sampling, data collection, analysis, interpretation, and applications of marketing research. A practical managerial approach - not a statistical or mathematical orientation. Students will design and execute a marketing research project. (F)

MKTG 210 Marketing on the Internet

Prerequisite: None

Recommended: MKTG 200 and Basic Understanding of Computers and Their is Use on the Internet

This course will explore the impact of information technology on the practice of marketing. Course content focuses on the internet, its culture and procedures from a marketing perspective, and will include using the internet for customer contact and customer service. This class uses extensive hands-on activities. (F, Sp)

MKTG 221 Consumer Behavior

Prereaulsite: None

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Covers the basic perspectives involved in consumer motivation and decision-making. Students will investigate relevant variables that shape consumer actions and concepts that integrate the study of consumer behavior with the practice of marketing (F)

MKTG 229 Public Relations

Prerequisite: None

Provides an introduction to principles involved in creating and maintaining good public relations. Techniques for developing improved employer-employee relations, customer relations, and the total public relations effort will be discussed and applied. (F, Sp)

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MKTG 231 Independent Study in Marketing

Prerequisite: Department Approval

Advanced marketing students design, implement, and draw conclusions relevant to a marketing project in a specific area of interest in marketing, Minimum of 16 hours of work per credit is required. (F, Sp, Su)

MKTG 235 Marketing Internship

Prerequisite: Department Approval

Recommended: Have Completed a Minimum of 30 Credits

This course provides an opportunity to apply classroom learning to a careerrelated position by working a minimum of 160 hours at an approved work site. A student may do an internship at his/her own job only if the duties are new, marketing related, and provide an appropriate learning situation. (F, Sp, Su)

MTEC - Media Technology

MTEC 110 Intro Broadcast/Elec Media

Prerequisite: Reading Level 5 and Writing Level 6

This is an introductory survey course which examines various electronic media industries and the historical, technological, regulartory, economic, programming, and societal contexts in which they exist. (F, Sp)

MTEC 120 Audio Production 1

Prerequisite: Reading Level 5 and Writing Level 6 Recommended: Basic Computer Skills

A beginning course which covers the basics of audio theory and production techniques. Included are topics in microphone selection and use; analog and digital audio formats, analog and digital audio editing, interconnection and signal flow, loudspeakers, and audio mixing. This class provides the foundational theory for the other classes in the audio series, including production, recording, and sound reinforcement. (F, Sp, Su)

MTEC 121 Audio Recording I

Prerequisite: MTEC 120 2.0 minimum

Recommended: Basic Computer Skills and MTEC 220

A beginning course in audio recording that covers the basic principles of multitrack recording, both studio and remote. Emphasis is placed on microphone selection and placement, use of mixing consoles, and multitrack recorders for the recording session. (F, Sp)

MTEC 122 Sound Reinforcement

Prerequisite: MTEC 120 2.0 minimum

This is a first course in sound reinforcement. Students learn to design and set-up various reinforcement systems. Included are front-of-house, amplifiers, speakers, monitors, computer-controlled wireless, and the use of chain motors to suspend sound support systems. (Sp)

MTEC 130 Radio Production I

Prerequisite: Reading Level 5 and Writing Level 6

Survey of the radio broadcast industry including careers, qualifications, responsibilities, and station operation. Introduces basic studio production and on-air presentations. (F, Sp, Su)

MTEC 150 TV Production I

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: Basic Computer Skills

This course places special emphasis on the components of effective visual communication. Pre-production processes related to program development, scriptwriting, storyboarding, lighting, and floor plot designs are emphasized. An introduction to television production processes are included in classroom activities. Class sessions contain instructional and performance exercises. (F, Sp)

MTEC 152 Video Production Techniques

Prerequisite: (MTEC 150 2.0 minimum and (MTEC 120 2.0 minimum or Concurrently) or FILM 118 2.0 minimum) and Reading Level 5 and Writing Level 6

Video Production Techniques is designed as an introductory experience to the process of single camera video production. This course will also provide the student with extensive experiences in linear videotape editing. Class sessions will contain instructional and performance exercises which are practical applications of the course content. (F, Sp)

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MTEC 153 Video Post-Production Technqs

Prerequisite: MTEC 152 2.0 minimum or Concurrently and (MTEC 150 2.0 minimum or FILM 118 2.0 minimum) and Reading Level 5 and Writing Level 6

Video Post-Production Techniques is designed to provide the student with an extensive experience in non-linear video post-production technologies. Learning activities within and outside the classroom are designed to provide a solid technical and creative foundation in video editing procedures. (F, Sp)

MTEC 220 Audio Production II

Prerequisite: MTEC 120 2.0 minimum

Recommended: Basic Computer Skills

An advanced audio production course providing audio theory and production practice. Topics include tape editing of musical material, use of audio effects in production, additional production mixing, and audio post-production for video. Students learn to edit and mix using ProTools. An extensive survey of the audio production industry is included. (F, Sp)

MTEC 221 Audio Recording II

Prerequisite: MTEC 121 2.5 minimum

Recommended: Basic Computer Skills

A second course in audio recording that covers advanced techniques used in multitrack studio recording. Emphasis is on use of the multitrack studio and signal processing equipment for multitrack mixdown as well as advanced location recording techniques. (Sp)

MTEC 223 Sound Reinforcement Practicum

Prerequisite: MTEC 122.2.5 minimum and Department Approval

A hands-on course that permits students to apply the theory and practice acquired in MTEC 122 to a large-scale practical project. The Spring class offering provides sound reinforcement experiences for local musical theatre. The Summer section provides concert sound reinforcement for bands playing at Riverfront Park during July 4th festivities. (Sp, Su)

MTEC 230 Radio Production

Prerequisite: MTEC 130 2.0 minimum

Recommended: Basic Computer Skills

This course emphasizes advanced training in studio and remote-production techniques. Emphasis is placed on writing, producing, and performing for commercials, news, and sports programs. (F, Sp)

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MTEC 232 Radio Workshop

Prerequisite: MTEC 130 2.0 minimum and Department Approval

Recommended: Basic Public Speaking Skills or SPCH 120

An opportunity for practical experience through access to the campus radio facility. Students will work in a variety of station staff positions. Emphasis will be placed on developing media of a professional caliber that students can later use as portfolio or resume materials. (F, Sp, Su)

MTEC 240 Script/Copywriting for Media

Prerequisite: MTEC 110-2.0 minimum and WRIT 121 2.0 minimum

Recommended: Basic Computer Skills

This course will help the student develop fundamental writing skills used in preparing script materials for electronic media. Emphasis is placed on practical copyrighting techniques applicable to radio and television advertising, promotion, public service and news. (Sp)

MTEC 243 Ethics/Social Impact of Media

Prerequisite: MTEC 110 2.0 minimum and WRIT 121 2.0 minimum Recommended: Basic Computer Skills

Ethics/Social Impact of Media explores the effects of the mass media on American culture and society. Topics such as privacy, censorship, violence, and portrayals of minorities and women are discussed. These discussions take place within an ethical reasoning framework. (F, Sp, Su)

MTEC 250 TV Production II

Prerequisite: MTEC 150 2.0 minimum

Recommended: Basic Computer Skills and MTEC 151

An advanced production course focusing on the development of the technical and creative skills necessary to direct the work of a studio production team. Production assignments are modeled after activities found in broadcast production environments. Additional academic exercises include interpretation and translation of script ideas into effective video programming. (Sp)

MTEC 251 Advanced Field Production

Prerequisite: MTEC 151 2.0 minimum or (MTEC 152 2.0 minimum and MTEC 153 2.0 minimum) or FILM 118 2.0 minimum and Reading Level 5

and Writing Level 6

Recommended: Basic Computer Skills

An advanced production course designed to provide the student with high-level instruction in videography and electronic editing techniques. Class sessions contain instructional and critical analysis exercises of contemporary video programming. All production exercises are conducted outside of classroom sessions. Course assignments are evaluated on technical and artistic guidelines. (F)

MTEC 252 Lighting for Television/Video

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Prerequisite: (MTEC 150 2.0 minimum or THEA 111 2.0 minimum or FILM 118 2.0 minimum) and Reading Level 5 and Writing Level 6

Recommended: MTEC 151

An advanced instructional seminar on lighting techniques for video and television production. Special emphasis is placed on developing creative and technical lighting approaches applicable to a broad range of program subjects. In-class examples and assignments are used for developing individual lighting techniques. (Sp)

MTEC 254 Television/Video Graphics

Prerequisite: MTEC 150 2.0 minimum

Recommended: Basic Computer Skills

This course is designed to provide the student with an introductory experience to the process of electronic graphic design for television, video, and multimedia production. Electronic Presentation Graphics places emphasis on learning the basics of several different types of graphic software, as well as developing the student's visual design capabilities in support of both television and video communication. (Sp)

MTEC 255 Video Workshop

Prerequisite: MTEC 151 2.0 minimum and Department Approval Recommended: Basic Computer Skills

This course provides guided laboratory and practical production experience in the creation of professional video programming. Projects will include opportunities to work in a variety of production and post-production positions. Emphasis will be placed on developing course materials of a professional caliber that students can later use as portfolio or resume materials. (F, Sp, Su)

MTEC 285 Media Portfolio

Prerequisite: Department Approval

Restriction: Media Technology Majors The student will assemble a portfolio under faculty supervision that represents the student's attainment of program outcomes and that can also serve as a tool for the purpose of securing employment or acceptance into a four-year school. This course is intended to be a final course in Media Technology. (Sp)

MTEC 290 Guided Independent Study

Prerequisite: MTEC 110 2.0 minimum and MTEC 120 2.0 minimum and MTEC 130 2.0 minimum and MTEC 150 2.0 minimum and Department Approval

Restriction: Media Technology Majors

Recommended: 75% of the way through Media Technology Program This course provides an opportunity for self-directed learners to explore topics of particular interest more thoroughly. Students will meet intermittently throughout the semester with an assigned faculty member for guidance and evaluation of progress. A proposal detailing the area of independent investigation must be submitted by the student prior to registration. (F, Sp, Su)

MTEC 295 Media Practicum

Prerequisite: MTEC 110 2.0 minimum and MTEC 120 2.0 minimum and MTEC 130 2.0 minimum and MTEC 150 2.0 minimum and Department Approval

Restriction: Media Technology Majors

Recommended: 75% of the way through Media Technology Program This course provides an opportunity to gain practical production experience in the media. Students are assigned to work on various audio, video, radio, and television projects within the Media Services Department. Faculty guidance and evaluation are an integral part of the experience. Practicum is intended only for advanced media technology students. (F, Sp, Su)

MTEC 296 Media Internship

Prerequisite: MTEC 110 2.0 minimum and MTEC 120 2.0 minimum and MTEC 130 2.0 minimum and MTEC 150 2.0 minimum and Department Approval

Restriction: Media Technology Majors

Recommended: 75% of the way through Media Technology Program This course provides an opportunity for students to work in external media settings under professional supervision. Students work closely with faculty in arranging and evaluating the workplace experience. Interview results determine intern placement. The internship is intended only for media technology majors who have completed at least 75 percent of their academic program. (F, Sp, Su)

MTEC 298 Special Projects

Prerequisite: MTEC 110 2.0 minimum and MTEC 120 2.0 minimum and MTEC 130 2.0 minimum and MTEC 150 2.0 minimum and Department Approval

Restriction: Media Technology Majors

Recommended: 75% of the way through Media Technology Program

This course provides an opportunity for a group of learners to become involved in a common project that will allow each to develop additional skills or to hone present skills. Availability of academically appropriate projects and student interest determines the nature of the experience. (F, Sp, Su)

MUSC - Music

MUSC 100 Summer Chorus

Prerequisite: Department Approval

Recommended: Music Reading Skills

An ensemble of vocalists composed of students and community members, which develops general musicianship and provides training in choral singing. This group performs at least one concert during summer semester. A mixed, women, or men's ensemble depending upon enrollment. May be taken up to three semesters for credit. (Su)

MUSC 101 Lanswingers Vocal Ensemble

Prerequisite: Department Approval

Recommended: Music Reading Skills

The purpose of LanSwingers, a vocal jazz ensemble, is to develop artistic and creative vocal jazz skills for ensemble performance. Advanced solo experience, microphone techniques, and vocal improvisational skills will be developed. Students are required to attend live performances. May be taken up to six semesters for credit. (F, Sp)

MUSC 102 Women's Chorus

Prerequisite: Department Approval

Recommended: Music Reading Skills

An ensemble of women vocalists composed of students and community members, which develops general musicianship and provides training in choral singing. This group performs four to six concerts throughout the year. Students are required to attend live performances. May be taken up to six semesters for credit. (F, Sp)

MUSC 104 LCC Satin Blues Ensemble

Prerequisite: Department Approval

Recommended: Music Reading Skills

A select female vocal ensemble focusing upon jazz and contemporary music for women's voices. Artistic and creative vocal skills and improvisation are developed through ensemble, small group and solo performance. Ensemble performs four to six concerts throughout the year. May be taken up to six times for credit. (F, Sp)

MUSC 105 Private Lesson I

Prerequisite: None

Restriction: Music, Dance and Theatre Majors

This course is a private lesson, 40 minutes per week, for performing arts majors. Only music, dance, or theatre majors are eligible to enroll. This course may be taken up to six semesters for credit. (F, Sp, Su)

MUSC 106 Private Lesson II

Prerequisite: None

Restriction: Music, Dance and Theatre Majors

This course is a private lesson, 60 minutes per week, for performing arts students. Only music, dance, or theatre majors are eligible to enroll. This course may be taken up to six semesters for credit. (F, Sp, Su)

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MUSC 108 Concert Choir

Prerequisite: Department Approval

Recommended: Music Reading Skills

A group of singers who perform a wide range of music, sacred and secular. This group performs four to six concerts throughout the year. Students are required to attend live performances. May be taken up to six semesters for credit toward a dearee. (F. Sp)

MUSC 119 Lansing Concert Band

Prerequisite: Instrumental Audition - Lansing Concert Band

A community band serving as the official band of the City of Lansing. The group performs throughout the year and plays all types of music but primarily concentrates on traditional concert band literature. Students are required to play in public performances of the band. May be taken up to six semesters for credit. (F. Sp. Su)

MUSC 121 Percussion Ensemble

Prerequisite: Department Approva

Recommended: Music Reading Skills

The percussion ensemble rehearses and performs pieces in a variety of styles and periods. Rhythmic reading skills and percussion techniques will be honed and developed further. This ensemble performs two to four times per year. The course may be taken up to six semesters for credit. (F, Sp)

MUSC 122 Guitar Ensemble

Prerequisite: Department Approval

Recommended: Music Reading Skills

Explores guitar music of diverse styles (classical, jazz and contemporary) for large group, small combo and solo performance on acoustic, electric and bass instruments. Other instrumentalists/vocalists may join to expand the ensemble. Two to four performances per year. May be taken up to six times for credit. (F, Sp)

MUSC 123 Jazz Ensemble

Prerequisite: Department Approval

Recommended: Music Reading Skills

The jazz ensemble will rehearse and perform pieces of various styles and from various periods in jazz and big band sound. Improvisational skills will be taught and developed. The group performs two to four concerts throughout the year. Students are required to attend live performances. May be taken up to six semesters for credit. (F, Sp)

MUSC 138 Class Piano Major I

Prerequisite: Reading Level 5 and Writing Level 4

Restriction: Music Majors

The first in a series of two, this course is designed to develop the practical keyboard skills used in a music career. Students will gain keyboard facility, skill in sight-reading, and the ability to transpose. This series does not teach classical piano performance. MUSC 138 will cover all major scales. Students are required to attend live performances. (F)

MUSC 139 Class Plano Major II

Prerequisite: MUSC 138 2.0 minimum and Reading Level 5 and Writing Level 4 Restriction: Music Majors

Last in a series, this course will increase technical facility tbrough playing more advanced, compositions and minor scales in all forms. Students will gain skill in accompanying a melody using a variety of patterns. Students will learn to read open score and lead sheets using letter and numeral notation. (Sp)

MUSC 143 Beginning Plano I - Summer

Prerequisite: None

Course assumes no prior music experience or knowledge. Students are introduced to the rudiments of playing plano. Concepts such as stall notation, rhythmic notation, correct fingering/hand positions, major scales, and primary chords will be the focus for this course. May be taken up to three semesters for credit. (Su)

MUSC 144 Beginning Plano I

Prerequisite: Reading Level 3 and Writing Level 4

Course assumes no prior music experience or knowledge. Students are introduced to the rudiments of playing plano. Concepts such as staff notation, rhythmic notation, correct fingering/hand positions, major scales, and primary chords will be the focus for this course. May be taken up to three semesters for credit. (F. Sp)

MUSC 145 Beginning Plano II

Prerequisite: MUSC 144 2.0 minimum and Reading Level 3 and Writing Level 4 This course is designed to take the student up to an intermediate level of playing. Rhythmic subdivisions, more complex fingering, and new major and minor keys are introduced. Students are required to attend live performances. May be taken up to three semesters for credit. (F. Sp)

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MUSC 154 Class Voice Commercial I-Summr Prarequisite: None

Beginning course designed to introduce students to vocal techniques and performance skills required in singing/performing commercial music. Breathing, posture, diction, tone production, interpretive skills, and microphone techniques are presented and developed. Students are required to attend live performances. May be taken up to three semesters for credit. (Su)

MUSC 155 Class Voice Commercial I

Prerequisite: None

Beginning course designed to introduce students to vocal techniques and performance skills required in singing/performing commercial music. Breathing, posture, diction, tone production, interpretative skills, and microphone techniques are presented and developed. Students are required to attend live performances. May be taken up to three semesters for credit. (F, Sp)

MUSC 156 Class Voice Commercial II

Prerequisite: MUSC 155 2.0 minimum

The advanced course in a series of two, this course will refine techniques introduced in MUSC 155. Students will prepare a final public performance. Students are required to attend live performances. May be taken up to three semesters for credit. (F, Sp)

MUSC 157 Applied Lesson I

Prerequisite: Music Major Audition

Restriction: Music Majors

This course is a private lesson, 60 minutes per week, for music majors. Enrollment is by audition only. Auditions are held the Friday prior to Fall Semester or as requested during Fall and Spring Semester juries. The course may be taken up to three semesters for credit. (F, Sp, Su)

MUSC 158 Applied Lesson II

Prerequisite: MUSC 157 2.0 minimum or Music Major Audition

Restriction: Music Majors

This course is a private lesson, 60 minutes per week, for music majors. Enrollment is allowed upon successful completion of the MUSC 157 juried performance. This course may be taken up to three semesters for credit. (F, Sp, Su)

MUSC 163 Aural Skills I

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Prerequisite: None

Co-requisite Course(s): MUSC 193

This course allows students to develop their aural capacity through exercises in beginning melodic and rhythmic dictation. The ability to sing melodies on sight through the use of solfeggio will also be developed. This is the first of two courses in freshman aural skills. (Sp)

MUSC 164 Aural Skills II

Prerequisite: MUSC 163 2.0 minimum

Co-requisite Course(s): MUSC 194

This course allows students to develop their aural skills through intermediate exercises in melodic and rhythmic dictation. The ability to sightsing melodies through the use of solfeggio continue to be developed. This course is the second in a sequence of two freshman music major requirements, (F)

MUSC 168 Intro to Musicianship I

Prerequisite: None

This course is for beginning musicians to gain an understanding of notating and reading pitch, rhythm, and music terminology and theory. Students are introduced to musical scales, key signatures, intervals, and chords. Students are required to attend live performances. (F, Sp)

MUSC 169 Intro to Musicianship II

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Prerequisite: MUSC 168 2.0 minimum or Music Theory Placement Test This course is the second in a pair of courses for novice musicians to further their understanding of music notation and theory fundamentals. MUSC 169 builds on material covered in MUSC 168. Students will learn to construct melodies. create phrases, and to harmonize a given or original melody. Students are required to attend live performances. (F, Sp)

MUSC 178 Beginning Diction for Singers

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: Music Reading Skills

Singers are trained in the International Phonetic Alphabet, assisting them in the correct pronunciation of English and foreign languages as applied to vocal performance. Primary focus is on English and Italian IPA skills corresponding with appropriate song literatures. Secondary emphases may introduce French or German IPA skills, (F. Sp)

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MUSC 181 Class Voice I - Summer Prerequisite: None Prerequisite: Reading Level 5 and Writing Level 4 The first in a series of two courses for group and individual work on varied song literature. Emphasis is placed on vocal techniques such as breathing, posture, diction, tone production, and stage presence. Students are required to attend live performances. May be taken up to three semesters for credit. (Su) pus field experiences required. (F, Sp) MUSC 182 Class Voice I 2 Prerequisite: None The first in a series of two courses for group and individual work on varied song literature. Emphasis is placed on vocal techniques such as breathing, posture, diction, tone production, and stage presence. Students are required to attend live performances. May be taken up to three semesters for credit. (F, Sp) MUSC 183 Class Voice II 2 Prerequisite: MUSC 182 2.0 minimum The advanced course in a series of two. This course will refine techniques, such as breathing, posture, diction, tone production, and stage presence, introduced in MUSC 182. Students are required to attend live performances. May be taken up to three semesters for credit. (F, Sp) Prerequisite: Reading Level 5 MUSC 187 Class Guitar - Summer Prereauisite: None This course is for beginners and experienced players who desire note-reading skills. Folk, blues, and classical guitar traditions are presented using basic plectrum technique. Beginning chord theory is introduced. Students will provide their own guitar, and attend live performances. (Su) MUSC 188 Class Guitar 2 Prerequisite: None This course is for beginners and experienced players who desire note reading skills. Folk, blues, and classical guitar traditions are presented using basic plectrum technique. Beginning chord theory is introduced. Students will provide their own guitar, and attend live performances. The course may be taken up to four semesters for credit. (F, Sp) MUSC 193 Basic Musicianship I Э Prerequisite: (MUSC 168 2.0 minimum or Music Theory Placement Test) and MUSC 232 Music Seminar Reading Level 5 Co-requisite Course(s): MUSC 163.

The first in a sequence of two courses in freshman music theory as required for four-year college music degrees. Notation and analysis of rhythm, pitch, intervals, scales, modes, keys, basic triads, their inversions, and fundamental rules of partwriting are among the many skills explored. (F)

MUSC 194 Basic Musicianship II	 	3
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Prerequisite: (MUSC 193 2.0 minimum or Music Theory Placement Test) and Reading Level 5

Co-requisite Course(s): MUSC 164

This course presents intermediate music theory principles including diatonic and chromatic harmony, four-part writing, counterpoint, basic music forms, and analysis. This course is second in a sequence of two. It serves as a freshman requirement for a four-year college music degree, (Sp)

MUSC 197 Intro to Music Technologies

Prerequisite: None

Recommended: Familiarity with Computers; Music Reading Skills This course introduces students to the role of computers in music. Topics include basic personal computer skills, industry standard music notation software and techniques, an exploration of the Musical Instrument Digital Interface (MIDI), music sequencing, audio editing, and composition and orchestration with computers and electronic instruments. (F, Sp, Su)

MUSC 199 Music Appreciation

Prerequisite: Reading Level 5 and Writing Level 4.

Designed for non-music majors, this course develops well-informed, focused listening. Students are acquainted with representative composers, compositions, and musical characteristics of a variety of style periods from early music through 20th Century music. Students are required to attend live performances. (F, Sp, Su)

MUSC 200 Music Fund for Elemen Teachers

Prerequisite: None

Recommended: Music Reading Skills

This course addresses the cognitive and performance music skills necessary for early childhood, elementary and special education majors. Successful teaching methods for singing and focused listening will be presented along with classroom performance on the plano and recorder. MUSC 200 may be taken as an elective. (F, Sp)

MUSC 219 Introduction to Music Therapy

An overview of the history, philosophy, and methodologies and practices of Music Therapy and the use of music in therapeutic aims of restoring, maintaining and improving both mental and physical health. Exploration and assessment of various clinical techniques and the disorders/patient populations they address. Off-cam-

MUSC 221 Sacred Music: History & Styles

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: Music Reading Skills

Investigation of sacred musical traditions and styles with global, cultural, interdenominational, and inclusive perspectives. Contextual overviews of liturgics, rites and diverse uses of music in worship are explored. Other issues encompass the plurality of world chant traditions, ethnicity, popular/contemporary music-making, and technology as significant forces in sacred music. (F)

MUSC 222 Techniques in Sacred Music

Recommended: Music Reading Skills

Techniques and skills for the practice of sacred music, including: principles of conducting; effective organization and administration of quality programs; appraisal of pertinent resources; planning worship services; and, fundamentals of recruiting, marketing and budgeting. Repertories and training methods for various vocal/instrumental ensembles and soloists/cantors will also be addressed. (Sp)

MUSC 230 Independent Study in Music

Prerequisite: Department Approval

Restriction: Music Majors

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit, A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (F, Sp)

Prerequisite: Department Approval

Student will be given the opportunity to attend master classes on various related topics or perform in a production on the main stage or comparable space. Limited, to individuals who have been selected as cast members or approved for master class. (F. Sp. Su)

MUSC 233 Music Seminar

Prerequisite: Department Approval

Student will be given the opportunity to attend master classes on various related topics or perform in a production on the main stage or comparable space. Limited to individuals who have been selected as cast members or approved for master class. (F, Sp, Su)

MUSC 240 World Music History I

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Prerequisite: Reading Level 5 and Writing Level 6

An historical and analytical survey of music and the ways civilizations understand, music in addressing cultural issues. Characteristic genres, styles, composers and literature of Western art music from Antiquity through 1750 are studied with crosscultural comparisons to non-Western musics of Asia, India, Middle East, Americas, and world chant traditions. (F)

MUSC 241 World Music History II

Prereguisite: Reading Level 5 and Writing Level 6

An historical, analytical and cultural survey of music from 1750 to the present. Characteristic genres, styles, composers and their musical expressions are studied regarding developments of Western art music, popular culture, comparisons with non-Western musics (Africa, Asia, and the Americas), as well as the emergence of world musics today. (Sp)

MUSC 242 American Musical Theatre

Prerequisite: Reading Level 5 and Writing Level 4

Survey of the stylistic trends and developments in American Musical Theatre from its roots to the present with attention to musical, literary and dramatic forms. Stylistic, cultural and social perspectives of the repertory are explored through informed listening, multi-media lecture presentations, live performances and an active-learning environment. (F)

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MUSC 246	History	of	Blues	and	Jazz

Prerequisite: Reading Level 5 An overview of the emergence, development and relevance of two of America's most genuine musical artforms. Stylistic, cultural, and sociological investigations of such musics provide a mirror to the ever-changing popular American soundscape. Informed listening introduces: major creator/performers, genres, expressions, and reflections of an increasingly global and technological musical world. (Sp)

MUSC 247 History of Rock and Roll Prerequisite: Reading Level 5

Survey of the origins, elements, developments, and reflections of Rock and Roll from its roots in the 1920s to the present. Major trends and artists are considered in stylistic, social, commercial, and global perspectives. Informed listening and comparative analyses reveal complex issues continuously redefining Rock music and its cultural legacy. (F, Sp)

MUSC 253 Business of Music 3

Prerequisite: None An introduction to the business aspects of the music industry. Areas covered include copyrights, contracts, trademarks, publishing, recording and record com-

pany operations, personal managers, booking agents, concert promotions, and unions. Students are required to attend live performances. (F) 2 MUSC 254 Band Management

Prerequisite: None This course is designed to assist the professional musician or manager in creating or improving a performing band. All major aspects of band management are covered, including intra-band arrangements, contracts, negotiations, format and material choice, equipment, finances, promotion and sales, road management, and basic organizational information. Students are required to attend live performances. (Sp)

MUSC 257 Applied Lesson III

Prerequisite: MUSC 158 2.0 minimum or Music Major Audition

Restriction: Music Majors

This course is a private lesson, 60 minutes per week, for music majors. Enrollment is allowed upon successful completion of the MUSC 158 juried performance. This course may be taken up to three semesters for credit. (F, Sp, Su)

MUSC 258 Applied Lesson IV

Prerequisite: MUSC 257 2.0 minimum or Music Major Audition Restriction: Music Majors

This course is a private lesson, 60 minutes per week, for music majors. Enrollment is allowed upon completion of the MUSC 257 juried performance. This course may be taken up to three semesters for credit. (F, Sp, Su)

MUSC 263 Aural Skills III

Prerequisite: MUSC 164 2.0 minimum

Co-requisite Course(s): MUSC 293 This course is a continuation of the first year of aural skills training. The student will proceed to more advanced training in sightsinging and eartraining. This course is the first in a sequence of two sophomore level aural skills courses. (F)

MUSC 264 Aural Skills IV

Prerequisite: MUSC 263 2.0 minimum

Co-requisite Course(s): MUSC 294

Advanced training in aural skills will continue as this course is the second in a sequence of two sophomore aural skills courses. Melodic and harmonic dictation involving chromaticism and modulation will be studied, as well as more advanced sightsinging exercises. (Sp)

MUSC 270 Rock Guitar

Prerequisite: None

A presentation on fundamental rhythm and lead guitar techniques and music theory concepts applicable to rock music from its rhythm and blues origin to the present, as well as other related popular styles. Student must provide own guitar. Students required to attend live performances. May be taken up to three semesters for credit. (F, Sp, Su)

MUSC 276 Lyric Writing

Prerequisite: Reading Level 5 and Writing Level 4 This course introduces students to the craft of writing song lyrics. The work of professional songwriters as well as the students' work will be examined and discussed. Students are required to attend live performances. (F)

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MUSC 280 Private Composition

Prerequisite: Music Major Audition and MUSC 194 2.0 minimum

Restriction: Music Majors

Private coaching/instruction for music majors, 40 minutes per week, in musical composition, giving attention and suggestion to melody, harmony, chord substitution, and formal design. Students are required to attend live performances. May be taken up to six semesters for credit. (F, Su)

MUSC 293 Advanced Musicianship I

Prerequisite: MUSC 194 2.0 minimum and Reading Level 5

Co-requisite Course(s): MUSC 263

This course is a continuation of elements of music theory acquired in MUSC 193 and 194. Students will learn advanced elements of harmony such as modulation. Phrygian II chords, augmented sixth chords, and chromatic voice leading techniques. Basic principles of musical form will be introduced. Students are required to attend live performances. (F)

MUSC 294 Advanced Musicianship II

Prerequisite: MUSC 293 2.0 minimum and Reading Level 5

Co-requisite Course(s): MUSC 264

MUSC 294 concerns the study of major classical forms including: variation, sonata, rondo, and concerto forms. Counterpoint, 19th Century harmony, jazz. set theory, and twelve-tone theory will be studied. This is the second of two sophomore level music theory courses. Students are required to attend live performances: (Sp)

MUSC 298 Electronic and Computer Music

Prerequisite: MUSC 197 2.0 minimum

Recommended: Computer Experience; Music Reading Skills

Students develop and create original musical compositions applying a variety of electronic and computer-based media. Projects include manipulating MIDI (Musical Instrument Digital Interface) data, digital audio effects processing. advanced sequencing, waveforms and basic properties of pitched sound, basic synthesis, editing and storage of synthesizer patches, digital music production, and spatialization. (F, Sp, Su)

NURS - Nursing

NURS 119 Special Topics in Nursing

Prerequisite: None

This course offers students the opportunity to learn new nursing skills and knowledge. Specific up-to-date content will vary with each seminar and will be related to the nursing profession. (F, Sp, Su)

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NURS 150 Fundamentals in Nursing Care

Prerequisite: Admission to Nursing Program and Reading Level 5 and Writing Level 6

The focus of this course is the nursing process as a problem-solving technique for meeting basic human needs. The concepts of perioperative care and cancer are presented, and the aging process is emphasized throughout. Clinicals are in longterm care facilities and hospitals. (F, Sp)

NURS 160 Acute Nursing Care

Prerequisite: NURS 150 2.5 minimum and NURS 200 2.5 minimum and BIOL

202 2.5 minimum (previously PHGY 202) and (PSYC 205 2.5 min-

imum or Concurrently)

Co-requisite Course(s): NURS 165 Students are assisted in using the nursing process in the care of adults adapting to common acute health problems. Pathophysiology and nursing interventions affecting the cardiovascular, respiratory, endocrine, gastrointestinal, neurological, and musculoskeletal body systems are presented. Clinical in acute care hospital systems. (F, Sp)

NURS 165 Maternity Nursing Care

Prerequisite: NURS 150 2.5 minimum and NURS 200 2.5 minimum and BIOL 202 2.5 minimum (previously PHGY 202) and (PSYC 205 2.5 min-

imum or Concurrently)

Co-requisite Course(s): NURS 160

Assessment and nursing care of the childbearing family is the focus of this course. Concepts of family, therapeutic communication, cultural diversity, and human sexuality are discussed. Basic needs and developmental tasks of early childhood through adolescence are included. Clinicals are in maternity units of hospitals and in community settings. (F, Sp)

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NURS 196 Long-term Care Nurse Intern

Prerequisite: Department Approval Long-term Care Nurse Intern is a bridge course focusing on new LPN graduates to transition from graduate LPN to practicing nurse caring for long-term care residents. Acute and chronic conditions specific to the elderly are presented via lecture, case studies and clinical practicum integration, and build upon the student's previous knowledge. (Sp, Su)

NURS 200 Pharmacology

Prerequisite: BIOL 202 2.5 minimum (previously PHGY 202) or Concurrently This course is recommended for students who wish to transfer to a BSN program. Drug categories are discussed in-depth as well as nursing responsibilities associated with medication administration. (F. Sp, Su)

NURS 210 LPN/Paramedic to RN Transition

Prerequisite: Department Approval and Reading Level 5 and Writing Level 6 Recommended: Current Work Experience, Current BLS and OSHA The Transition Course is designed to assist the returning LPN/Paramedic student in the adjustment to the curriculum leading to an Associate Degree in Nursing. Roles, functions, and practice settings for the LPN/Paramedic and Associate Degree Nurse will be compared and discussed. (F, Sp, Su)

NURS 260 Mental Health Nursing Care

Prerequisite: NURS 160 2.5 minimum and NURS 165 2.5 minimum and PSYC 205 2.5 minimum

Co-requisite Course(s): NURS 265

The student is expected to use the nursing process in caring for clients adapting to psychosocial health problems including the high risk mother and infant. Emphasis is placed on therapeutic communication skills. Clinicals are in psychiatric units of acute care hospitals and day treatment facilities and community sites. (F. Sp)

NURS 265 Pediatric Nursing Care

Prerequisite: NURS 160 2.5 minimum and NURS 165 2.5 minimum and PSYC 205 2.5 minimum

Co-requisite Course(s): NURS 260

Concepts of illness in children are discussed utilizing a systems perspective. Students are expected to integrate the nursing process and course concepts into their care of children in hospital acute care maternity units, pediatric units, and other selected health care settings. (F, Sp)

NURS 280 Advanced Chronic Nursing Care

Prerequisite: BIOL 203 2.5 minimum (previously MICR 203) and NURS 260 2.5 minimum and NURS 265 2.5 minimum

Co-requisite Course(s): NURS 285 and NURS 290

Recommended: BIOL 204 (previously MICR 204)

The student will use the nursing process in caring for adult clients adapting to chronic health problems. Care of client with immune system problems, hepatilis, HIV, diabetes mellitus, and heart failure is discussed. Clinical experiences are in the acute care facility and clinical visits to community agencies. (F, Sp)

NURS 285 Advanced Acute Nursing Care

Prerequisite: BIOL 203 2.5 minimum (previously MICR 203) and NURS 260 2.5 minimum and NURS 265 2,5 minimum

Co-requisite Course(s): NURS 280 and NURS 290

The student will use the nursing process in caring for adult clients with critical health problems. Homeostatic responses to pathology of the cardiovascular and respiratory systems, fluid-electrolyte shifts, and acid-base imbalances are discussed. Advanced monitoring and patient assessment are incorporated throughout. Clinical experiences include acute care and leadership/management opportunities. (F, Sp)

NURS 290 Leadership in Nursing Care

Prerequisite: BIOL 203 2.5 minimum (previously MICR 203) and NURS 260 2.5 minimum and NURS 265 2.5 minimum

Co-requisite Course(s): NURS 280 and NURS 285

The role of the nurse as manager of care and licensed health professional is presented. Students apply the nursing process to various management systems within acute care settings. Current issues and trends in health care are a strong emphasis of this course. (F, Sp)

NURS 296 Acute Care Nurse Intern

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Prerequisite: Department Approval

NURS 296 is a bridge course focusing on new RN graduates to facilitate transition from graduate to practicing nurse in the care of the acutely ill patient. This course integrates advanced level course content, clinical laboratory experiences, and "real-world" work experiences under the guidance of an experienced RN preceptor. (Sp, Su)

OADM - Office Administration

OADM 102 Editing Business Documents

Prerequisite: Reading Level 5 and Writing Level 4

This course introduces students to applied editing skills for business documents. Locating and correcting errors in typing, word division, format, numbers, word usage, capitalization, and punctuation are emphasized. Grammar rules will be reviewed as needed. Some classroom activities require use of a computer lab. (F, Sp, Su)

OADM 105 Employability Skills

Prerequisite: None

Recommended: IT Job Readiness Certificate students should register for OADM 106 Concurrently

Students will develop the basic employability skills necessary to function in a work environment with an emphasis on the use of technology and lifelong learning. The course is designed for those planning to complete the Information Technology Job Readiness certificate program or the Office Administration Internship course. (F, Sp)

OADM 106 Keyboarding Basics

Prerequisite: None

Recommended: IT Job Readiness Certificate students should register for OADM 105 Concurrently

Students will develop the introductory keyboarding skills necessary to function in a work environment. The course prepares students for productivity software coursework and is designed for those planning to complete the Information Technology Job Readiness certificate program. (F, Sp)

OADM 108 Input Technologies/Business

Prerequisite: Reading Level 5 and Writing Level 4

Recommended: Prior Keyboarding Experience

This course is designed to expose students to a variety of emerging input mediums for the office environment. Students will learn speech-to-text input using voice recognition software and handwriting input using Microsoft Office and a graphics tablet, (F. Sp. Su)

OADM 195 Human Relations in Work Place

Prerequisite: Reading Level 5 and Writing Level 4

This course emphasizes the importance of human relations in the workplace. Through a combination of case studies, self-analysis inventories, and discussion, students explore the dynamics and interrelatedness of career and personal success. Course topics include self-understanding, dealing effectively with people, conflict resolution, problem-solving, career planning, and lifelong learning. (F, Sp, Su)

OADM 197 Medical Vocabulary

Prerequisite: Reading Level 5 and Writing Level 4

This course provides instruction in spelling, definition structure, and concepts of medical terminology using a body-systems approach. Good study skills are required. (F, Sp, Su)

OADM 198 Health Information Management

Prerequisite: OADM 197 2.0 minimum and Reading Level 5 and Writing Level 4 In this course, students will explore the diversity of health information management settings. Topics include coding and classification, computerized information systems in health care, quality assurance and utilization management, risk management, and legal issues. Developments in telemedicine, health informatics, and other technological trends are also discussed. (Sp)

OADM 203 Professional Office Procedures

Prerequisite: Reading Level 5 and Writing Level 4

Recommended: Microsoft Office Experience

Students will explore and develop the workplace behaviors and technical skills required of administrative support personnel. Course topics include organizing and planning functions, maintaining equipment and supplies, managing records and files, communications, document production, and information distribution. Use of office and information technologies will be emphasized. (F, Sp)

OADM 206 Legal Vocabulary/Transcription

Prerequisite: Reading Level 5 and Writing Level 4 Recommended: Word Processing Experience

This course provides the legal language foundation to familiarize students with the most commonly used legal terms in the workplace. The production of mailable communications using transcription equipment and word processing software is nphasized. (F)

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OADM 207 Medical Transcription

Prerequisite: Reading Level 5 and Writing Level 4 Recommended: (OADM 197 or CHSE 120 or CHSE 121) and (BIOL 145 or BIOL 151 or BIOL 201) and Typing Experience

This course is designed to develop foundation skills in the transcription of basic health care dictation, incorporating skills in English language, technology, medical knowledge, proofreading, editing, and research while meeting accuracy and productivity standards. (F. Sp)

OADM 208 Legal Citations/Document Prep

Prerequisite: OADM 206 2.0 minimum and Reading Level 5 and Writing Level 4 Recommended: Word Processing Experience

This course introduces legal citations and the preparation of legal documents in various areas of law. Correct citation practice and proper formatting and use of legal language in document production are stressed. (Sp)

OADM 210 Medical Coding Concepts

Prerequisite: OADM 197 2.0 minimum and OADM 198 2.0 minimum and Reading Level 5 and Writing Level 4

This course focuses on medical coding concepts in the health care system and deals exclusively with abstracting and coding information from the patient record to optimize reimbursement. The course also provides an opportunity to build the foundation for a future career in medical coding. (F, Sp)

OADM 215 Information Records Mgmt I

Prerequisite: (CABS 133 2.0 minimum or Concurrently) and Reading Level 5 and Writing Level 4

This course includes an overview of records management; document maintenance at each stage of the records cycle; use of the Internet for RM projects: selection of proper equipment, service bureaus, and off-site storage facilities; and procedures for control of automated records technology in a systems environment. Students will complete computer applications modules using Microsoft Access. (F, Sp)

OADM 216 Information Records Mgmt II

Prerequisite: (CABS 133 2.0 minimum or Concurrently) and Reading Level 5 and Writing Level 4

This course focuses on the establishment and evaluation of an information/records management program, from preparing an inventory to establishing long-term archival storage for electronic as well as paper media. Knowledge of various government and industry standards will be used to determine the parameters within which an information/records management program should be established. (F)

OADM 220 Admin Mgmt in Organizations

Prerequisite: Reading Level 5 and Writing Level 4

This course examines the management of administrative services in the work place and the role of the Administrative Office Manager. Topics include office functions, job analysis, ergonomic planning, and the design, installation and evaluation of office systems. (F, Sp)

OADM 222 Advanced Medical Transcription

Prerequisite: OADM 207 2.0 minimum

This course is designed for transcription of advanced healthcare dictation. Students will be required to utilize advanced proofreading, editing, and research skills while meeting increased accuracy and productivity standards. (Sp, Su)

OADM 228 Financial Mgmt in Health Care

Prerequisite: CABS 126 2.0 minimum and OADM 198 2.0 minimum

This course focuses on concepts of managed care and its significance in the health care system. Managed care and its impact on financial management, decision making, and information requirements of the health care system are emphasized. Students will view managed care, including ambulatory care, from the perspective of both health insurance companies and providers. (Sp)

OADM 240 Office Internship

Prerequisite: Department Approval

Co-requisite Course(s): OADM 105

Recommended: See Internship Coordinator Before Registering

This course is designed to provide on-the-job training relating to an Office Administration major. Students obtain employment in an approved training station to earn credits for satisfactory work performance. A minimum of 120 hours worksite experience is required. (F, Sp, Su)

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OADM 275 Diversity in Business

Prerequisite: Reading Level 5 and Writing Level 4 This course is designed to help students become familiar with, understand, and appreciate people of different cultures to promote a more effective basis for working together in the business world. Emphasis and application is placed upon business etiquette and business practices as they differ in various cultures. (F, Sp)

OADM 291 Office Systems Capstone

Prerequisite: OADM 220 2.0 minimum or OADM 275 2.0 minimum This capstone course concludes associate degree requirements for Office Administration curricula. The course is designed for the administrative professional who is preparing for the Certified Professional Secretary (CPS) Examination. Topics include current techniques in office practices and procedures, including finance, business law, economics, communications, and management, as well as current developments in office systems and technology. (F, Sp)

PARA - Paramedic

PARA 221 Paramedic Medical Trauma I

Prerequisite: Admission to Paramedic Program and Reading Level 5 and Writing Level 6 and Math Level 3

Co-requisite Course(s): PARA 231 and PARA 241 and PARA 251 and PARA 261 This course provides information about the pre-hospital management of medical and traumatic conditions at the advanced life support level. Emphasis is placed on pathophysiology, recognition of signs and symptoms, review of basic life support management techniques, and strategies for advanced life support care. (F)

PARA 222 Paramedic Medical Trauma II

Prerequisite: PARA 221.3.0 minimum

Co-requisite Course(s): PARA 232 and PARA 242 and PARA 252 and PARA 262 PARA 222 incorporates previous knowledge gained at the basic EMT level and PARA 221, Provides material for management of prehospital emergencies including assessment and management of neurological, behavioral, abdominal, metabolic, geriatric, and multiple trauma patients. The principles of triage, management of mass casualty incidents, and telecommunications are also included. (Sp)

PARA 231 Paramedic Cardiology I

Prerequisite: Admission to Paramedic Program

Co-requisite Course(s): PARA 221 and PARA 241 and PARA 251 and PARA 261 This course provides the paramedic student with information about cardiovascular anatomy, physiology, and electrophysiology. Emphasis is placed on rhythm interpretation, recognition of life threatening arrhythmias, electrical intervention and other prehospital patient management strategies. (F)

PARA 232 Paramedic Cardiology II

Prerequisite: PARA 231.3.0 minimum

Co-requisite Course(s): PARA 222 and PARA 242 and PARA 252 and PARA 262 Builds on information learned in PARA 231 as a basis for more advanced arrhythmia interpretation. Management of cardiac arrest including medications, cardioversion, transcutaneous pacing, and defibrillation will be a major emphasis. Pacemakers, 12-lead ECG interpretation, and other advanced procedures, and arrhythmias will be presented. Application of theory, judgment, and decision-making strategies are evaluated. (Sp)

PARA 241 Paramedic Pharmacology I

Prerequisite: Admission to Paramedic Program

Co-requisite Course(s): PARA 221 and PARA 231 and PARA 251 and PARA 261 Provides the student with information necessary for the preparation, calculation of doses, and administration of drugs used in the prehospital setting, including classification, action, use, and side effects. Information about other commonly prescribed drugs is also provided. (F)

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PARA 242 Paramedic Pharmacology II

Prerequisite: PARA 241 3.0 minimum

Co-requisite Course(s): PARA 222 and PARA 232 and PARA 252 and PARA 262 Provides the paramedic student with additional in-depth information on Advanced Cardiac Life Support drugs including classification, action, use, and side effects. Information about other commonly used and prescribed drugs is also provided. (Sp)

PARA 251 Paramedic Skills I

Prerequisite: Admission to Paramedic Program Co-requisite Course(s): PARA 221 and PARA 231 and PARA 241 and PARA 261

Provides introduction of paramedic skills required for advanced life support and provides the opportunity to apply theory to field practice in a discussion and skills lab setting. Skills will be demonstrated, practiced during supervised labs, and tested for competency. The student must have excellent basic EMT skills upon entry. (F)



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Prerequisite: PARA 251 3.0 minimum

Co-requisite Course(s): PARA 222 and PARA 232 and PARA 242 and PARA 262. A continuation of Skills I with the introduction of additional skills and continued application of theory. Measurement criteria for skills competencies becomes more stringent and students must become competent in all paramedic skills in preparation for the field internship component. (Sp)

PARA 261 Paramedic Clinical I

Prerequisite: Admission to Paramedic Program

Co-requisite Course(s): PARA 221 and PARA 231 and PARA 241 and PARA 251 Provides clinical experience for paramedic students in areas including nursing home; hospital units such as the emergency department, critical care units, burn units, obstetrics, pediatrics, and psychiatric units; and designated EMS agencies under the supervision of licensed paramedics. Students are also evaluated in the management of simulated emergencies. (F)

PARA 262 Paramedic Clinical II

Prerequisite: PARA 261 3.0 minimum

Co-requisite Course(s): PARA 222 and PARA 232 and PARA 242 and PARA 252 Provides clincial experience for paramedic students in areas including hospital units such as emergency departments, critical care units, obstetrics, pediatrics, surgery, and designated EMS agencies under the supervision of licensed paramedics. Students are also evaluated in the management of simulated emergencies. (Sp)

PARA 263 Paramedic Internship

Prerequisite: PARA 221 3.0 minimum and PARA 231 3.0 minimum and PARA 241 3.0 minimum and PARA 251 3.0 minimum and PARA 261 3.0 minimum

This course prevides a field internship component with an advanced life support agency. Students are assigned to a paramedic training officer to provide total patient care and other professional duties under direct supervision. Training and testing in advanced cardiac life support is also completed. (Su)

PFAQ - Physical Fitness: Aquatics

PFAQ 100 Swimming: Primary Skills

Prerequisite: None

This is an introductory swimming course which focuses on the development of basic swimming strokes, rhythmic breathing, survival swimming, and beginning diving skills. (F, Sp, Su)

PFAQ 101 Swimming: Stroke Development	1 -		
Prerequisite: None Recommended: PFAQ 100 This course stresses development of skills in front crawl and backstroke. S will be introduced to the backcrawl, breaststroke, and butterfly, with stron centration on rhythmic breathing. (F, Sp, Su)	tudents 1g con-		
PFAQ 104 Swimming/Training	1		
Prerequisite: None This course is designed for persons interested in skill development in all c litive swimming strokes as well as in a fitness program design. The student be able to swim 500 yards in 10 minutes. (F, Sp. Su)	ompet- should		
PFAQ 106 Water Walking/Toning	1		
Prerequisite: None This course utilizes a variety of walking and running moves in shallow or deep water to enhance cardiovascular fitness. Toning exercises for arms, abdominal, and thighs are used extensively. Non-ballistic moves are emphasized. (F, Sp, Su)			
PFAQ 107 Water Exercise I	1		
Prerequisite: None This course utilizes a variety of movements performed in shallow or deep to improve cardiovascular fitness and flexibility. No swimming skills requir Sp. Su)	water, red. (F,		
PFAQ 110 Hydro-Fit Exercise I	-		

Prereguisite: None

This course is designed to give the student an overall water fitness workout with little impact to joints or back. The class uses Hydro-Fit buoyancy equipment to tone and strengthen muscles, develop coordination, and increase flexibility. (F, Sp, Su)

PFAQ 111 Hydro-Fit Exercise II

Prerequisite: None Recommended: PFAQ 110

This is a water fitness program using water resistance to tone and strengthen muscles, develop coordination and increase flexibility by using Hydro-Fit exercise equipment. Emphasis is placed on increasing abdominal, shoulder, arm and lower body strength. (This class is similar to Hydro-Fit I, but meets three times per week.) (F, Sp, Su)

PFAQ 112 Scuba

Prerequisite: None

This course is a basic course in scuba diving. The course includes both classroom and pool training instruction. Upon successful completion of class, the student is eligible for scuba certification following open water training. (F, Sp, Su)

PFAQ 114 Parent/Infant Water Adjustment.

Prerequisite: None

This course places emphasis on parent/infant water adjustment, safety, and fun. Emphasis is placed on development of water experience and improvement of motor skills and coordination. (Infant ages between 6 months to 2 years) (F, Sp).

PFAQ 115 Parent/Toddler Water Adjustmnt

Prerequisite: None

Recommended: PFAQ 114

This course places emphasis on parent/toddler water adjustment, skill development, safety, and fun. Emphasis is on development of water experiences, improvement of motor development, coordination, and social skills. Toddlers should be 2 to 5 years old, depending upon skill development and/or instructor approval. (F, Sp)

PFAQ 116 Parent/Child Swim

Prerequisite: None

Recommended: PFAQ 115

This course focuses on parent/child water skill development, socialization skills, and safety. Individualized instruction is given for advancement of motor skill and coordination in the aquatic environment. Children should be 4 to 5 years old and/or instructor's approval. (F, Sp)

PFAQ 118 Arthritis Aquatics

Prerequisite: None

This course will give the student exercises for range of motion in comfortable water temperatures and will improve and help maintain flexibility and well-being. Arthritis Foundation approved program. (F, Sp)

PFAQ 119 Scuba Certification Class

Prerequisite: PFAQ 112 2.0 minimum or PEAF 112 2.0 minimum This course is designed to allow students who have completed scuba PFAQ 112 or equivalent to complete their open water scuba certification training. Upon successful completion of the class, the student will receive Scuba Schools Internationals' open water certification. (F, Sp, Su)

PFAQ 120 Basic Lifeguarding

Prerequisite: None

This course is designed to provide the necessary minimum skills of training to qualify as an entry-level lifeguard. (F, Sp)

PFAQ 121 Lifeguard Training

Prerequisite: None

This course is designed to provide the necessary minimum skills training for a person to qualify as a non-surf lifeguard. (F, Sp)

PFAQ 122 Water Safety Instruction

Prerequisite: None

This course is designed to assist in teaching basic aquatic skills for instructors. Teaching modalities and how different students learn is covered. (F, Sp)

PFDA - Physical Fitness: Dance

PFDA 142 Ballroom Swing I

Prerequisite: None

Introduction to the study of ballroom swing including partnership technique, dance posture, basic patterns, music and style of the Swing dances. Includes introduction to dances using different styles and speeds of music such as East Coast swing, West Coast swing, jitterbug, and jive. Enrollment with a partner is strongly recommended. (F, Sp, Su)

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PFDA 147 Latin Ballroom I

Prerequisite: None

This course includes an introduction to partnership technique, dance posture, basic patterns and music for Latin partnership dancing. Dances will be selected from the following: cha-cha, rumba, mambo, merengue, salsa, samba, and tango. Enrollment with a partner is strongly recommended. (F, Sp, Su)

PFDA 151 Ballroom Bronze I Workshop

Prerequisite: None 🥢 🖉

Introduction to the study of ballroom including partnership technique, dance posture, basic patterns, and music for traditional ballroom dances including waltz, fox trot, cha-cha, rumba, and swing. Enrollment with a partner is strongly suggested. (F, Sp, Su)

PFDA 152 Latin Ballroom II

Prerequisite: None

Recommended: PFDA 147

This course is designed to build on the techniques introduced in Latin Ballroom I, Ballroom I, Ballroom Swing I, or Ballroom Topics. Emphasis will be placed on the following dance styles: cha-cha, rumba, mambo, samba, salsa, merengue, and tango. Enrollment with a partner is strongly recommended. (F, Sp. Su)

PEFT - Physical Fitness: Fitness

PFFT 100 Total Fitness A

Prerequisite: None

Total Fitness encompasses fitness, nutritional health, and general wellness principles. Students will complete an assessment measuring aerobic fitness, strength, flexibility, and nutrition. With supervision of an instructor, students will develop and participate in an exercise plan tailored to their individual needs. The course features flexibility of attendance and modular teaching. (F, Sp, Su)

PFFT 101 Total Fitness D

Prerequisite: None

Total Fitness encompasses fitness, nutritional health, and general wellness principles, Students will complete an assessment measuring aerobic fitness, strength, flexibility, and nutrition. With supervision of an instructor, students will develop and participate in an exercise plan tailored to their individual needs. The course features flexibility of attendance and modular teaching. (F, Sp, Su) PFFT 102 Total Fitness C

Prerequisite: None

Total Fitness encompasses fitness, nutritional health, and general wellness principles. Students will complete an assessment measuring aerobic fitness, strength, flexibility, and nutrition. With supervision of an instructor, students will develop and participate in an exercise plan tailored to their individual needs. The course features flexibility of attendance and modular teaching. (F, Sp, Su)

PFFT 103 Total Fitness D

Prerequisite: None Total Fitness encompasses fitness, nutritional health, and general wellness principles. Students will complete an assessment measuring aerobic fitness, strength, flexibility, and nutrition. With supervision of an instructor, students will develop and participate in an exercise plan tailored to their individual needs. The course features flexibility of attendance and modular teaching. (F. Sp, Su)

PFFT 107 Jogging: Beginning

Prerequisite: None

This course introduces jogging as a fitness modality and covers how to care for feet, proper equipment choices, clothing, and safety. (F, Sp, Su)

.5 PEET 111 Aerobic Boxing Prerenuisite: None

This course will teach the art of self-defense while improving your aerobic and anaerobic capacity. (F, Sp, Su)

PFFT 112 Body Flexibility

Prerequisite: None

This course is designed to increase body flexibility by learning proper stretching techniques and applying these techniques to range of motion and muscle flexibility. (F, Sp, Su)

PFFT 113 Tone and Stretch

Prerequisite: None

This course combines calisthenics and stretching. Students will use floor exercises to tone muscles and increase flexibility. Proper stretching techniques will be emphasized. Students will examine which muscle groups are being worked. (F, Sp, Su)

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PFFT 114 Advanced Circuit Training

Prerequisite: None

This course is designed to incorporate strength conditioning, muscle endurance. flexibility, and cardiovascular training for a total body workout. This can be accomplished in a relatively short time frame by utilizing the circuit training method. (F. Sp. Su)

PFFT 115 Emergency Services Fitness I

Prerequisite: None

Restriction: Emergency Medical Services, Paramedic or Fire Science student This course provides emergency service students with techniques and practice to maintain and improve the high degree of physical fitness necessary to meet the demands of their profession. (F, Sp, Su)

PFFT 116 Emergency Services Fitness II

Prerequisite: None

Restriction: Emergency Medical Services, Paramedic or Fire Science student This course provides emergency services students with progressive advancement of techniques and practice of physical fitness to meet professional demands. (F, Sp)

PFFT 117 Emergency Services Fitness III

Prerequisite: None

Restriction: Emergency Medical Services, Paramedic or Fire Science student This course provides emergency services students with fitness and strength-building techniques to continue to meet the demands of their profession. (F, Sp)

PFFT 118 Emergency Services Fitness IV

Prerequisite: None

Restriction: Emergency Medical Services, Paramedic or Fire Science student This course provides the ongoing fitness training necessary for emergency medical students to work in their profession. (F, Sp)

PFFT 120 Aerobic Exercise

Prerequisite: None

This course helps students to improve cardiovascular function and oxygen efficiency to enhance muscle structure and function through toning exercises, aerobic dancing, and stretching. (F, Sp, Su)

PFFT 122 Step Aerobics

Prerequisite: None

This course helps students improve cardiovascular efficiency through the use of step platforms. Movement combinations with increasing complexity will be used to increase student's balance and coordination. Toning and stretching exercises will be used to complete muscle balancing and flexibility. Educational material will be distributed to increase student's knowledge of fitness and wellness to improve personal quality of life. (F, Sp, Su)

PFFT 136 Dance Exercise

Prerequisite: None

This course includes warm-ups and exercise from various dance genres including ballet, modern, and jazz designed to develop flexibility, strength, and coordination. Emphasis is placed on toning and stretching. Some sections teach NIA (Neuromuscular Integrative Action) and incorporate other dance forms with yoga and martial arts. (F, Sp, Su)

PFFT 147 Basketball Fitness Training

Prerequisite: None

This course is not a traditional basketball class. Participants will be in a workout class that will have an emphasis on conditioning using basketball drills and basketballs. Class activities will include running, continuous movement, shooting, defensive slides, and dribbling. (F. Sp)

PFFT 151 Cardiac Rehab Exercise

Prerequisite: Department Approval This continuing course includes medically-monitored exercise and education, which emphasizes reducing the risk factors known to contribute to heart disease. Methods and level of exercise are determined by the participant's physician and the program medical director. Monitored by professional staff. (F, Sp, Su)

PFFT 169 Fit for Life Exercise

Prerequisite: None This course introduces the older student to the benefits and importance of a regular exercise program to combat the debilitating effects which inactivity has upon aging. The student will learn the benefits of cardiovascular exercise as well as flexibility, mobility, and range of motion. (F. Sp)

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	PFFT 170 Yoga: Beginning 1	PFHW 161 Self-Awareness: Key to Winess 2
	Prerequisite: None	Prerequisite: None
	This course is an introduction to yogic breathing and yogic stretching exercises with emphasis on relaxation and meditation. Yoga postures will be utilized to	This course introduces the student to aspects of self-awareness that can lead to
	reduce stress and tension. (F, Sp, Su)	greater vitality in all aspects of life. The student will learn ways in which he or she is influenced by family and cultural beliefs. Tools for changing behavior will be pre-
	DEET 171 Vogo: Continuing	sented. (F, Sp)
	PFFT 171 Yoga: Continuing 1 Prerequisite: None	
	Recommended: PFFT 170 (previously PFIS 124)	PFHW 163 Healthy Lifestyles 2
	This course promotes psycho-physical integration of body and mind through yogic	Prerequisite: Reading Level 5 and Writing Level 6
	breathing, stretching, and relaxation. Guided breathing and visualization are used to enhance depth and quality of relaxation and meditation. (F, Sp, Su)	This course introduces the student to lifestyle skills that lead to better health. The student will learn healthy nutritional habits, basic fitness concepts, positive stress
•		reduction, and development of a personalized healthy lifestyle plan. Assessment
	PFFT 172 Yoga: Special 1	skills and wellness concepts will be put into practice. (F, Sp, Su)
	Prerequisite: None	PFHW 181 Stress Management 1
	This course teaches modified and adaptive yogic breathing and stretching exer- cises to enhance the body's mobility of the movement-handicapped person.	
1	Feldenkeis audio and video instructional tapes are used to extend range of move-	Prerequisite: None This course helps students understand the basic components of the stress
	ment. Self-massage, guided relaxation, and meditation are used to reduce stress and tension, as well as to enhance well-being. (F, Sp)	response and how they limit our physical, mental and emotional well-being.
		Students learn and apply basic principles that help to resolve stressful situations
	PFFT 173 Mini Yoga: Beginning .5	and lead to greater sense of ease and pleasure in life, work and relationships. (F, Sp. Su)
	Prerequisite: None	
	This course is an introduction to yogic breathing and gentle yogic stretching exer- cises with emphasis on guided relaxation and meditation. Stress and tension are	PFHW 190 Sem: Wilderness Survival Tech 3
	reduced by integrating body, mind, and spirit. (Su)	Prerequisite: None
	PFFT 180 Seminar: Special Subjects 0-3	This course provides basic outdoor survival skills and techniques to campers, out
	Prereguisite: None	door enthusiasts, and group leaders. Among the topics are shelter, fire, water, sig- nals, orienteering, food procurement, hot/cold stress management, toxic bites,
	Seminars are designed to meet specific community needs. (F, Sp, Su)	edible plants of the world, and survival at sea. Optional three-day field trip exer-
	PFFT 261 Adult Lifestyles Exercise 2	cise. (F, Sp, Su)
	PFFT 261 Adult Lifestyles Exercise 2 Prerequisite: Department Approval	PFHW 191 Seminar: Wild Food Plants 3
	An opportunity for students to maintain and/or improve their fitness level through	Prerequisite: None
	supervised aerobic exercise sessions and health education. Emphasis is on regu- lar, safe exercise and healthy lifestyles. (F, Sp, Su)	This course introduces 77 kinds of edible wild plants and their toxic look-a-likes
	ice; sere exercise rate nearly measyles, (1, b), but	from Michigan and adjoining states. The students learn to distinguish these plants
	PFHW - Physical Fitness: Health/Fitness	on the basis of observed plant characteristics. The material is illustrated in slides and handouts. Several outdoor experiences are provided. Conservation stressed.
	PFHW 100 Health and Wellness Seminar .5-2	(F, Sp, Su)
	Prerequisite: None	
	This course introduces the student to 8 hours of various topics. Related to health awareness, wellness, and/or prevention. (F. Sp. Su)	PFKN - Physical Fitness: Kinesiology
	awareness, wenness, and/or prevention. (r. 5p, 50)	PFKN 105 Psychology of Coaching
	PFHW 105 Med Alternatives/Hith & Wins 2	Prerequisite: None
	Prerequisite: None	This course provides a comprehensive introduction to the art and science of
	This course discusses alternatives in maintaining health and correcting illness. The students will examine the six major medical systems, as well as many alter-	coaching, as well as an introduction to the art of positive ceaching philosophy. (F, Sp)
	native therapies from around the world. (F, Sp)	
	PFHW 123 Human Nutrition 3	PFKN 106 Aerobic Inst Trning & Cert 3
	Prerequisite: Reading Level 5	Prerequisite: None
	Recommended: Biology	This course will train the student on how to instruct a safe and effective aerobic fit- ness class. High and low impact aerobics, step aerobics, and muscle repetition
	An introductory course in human nutrition. Topics include the role of nutrients; digestion, absorption, and metabolism of nutrients; role of vitamins and minerals;	work using light weights and resistance bands will be emphasized. Safe exercise
	and the introduction of current and controversial topics when relevant. Such topics	techniques, developing creative choreography, and teaching modifications for spe-
	can include fad diets, obesity, nutrition of athletes, food labels, alcohol, sugar, and food additives. (F, Sp)	cial populations will be covered. Certification exams will be given. (F, Sp)
		PFKN 170 Foundations of Kinesiology 2
	PFHW 130 Theory and Practice of Yoga 2	Prerequisite: Reading Level 5 and Writing Level 6
	Prerequisite: None Recommended: PFFT 170 (previously PFIS 124)	This is an introductory professional course in Kinesiology, which examines the
	This course explores the theoretical foundations of yoga and its historical frame-	multiple aspects of physical education and Kinesiology as a discipline, major, and profession. Sub-disciplines and career options in the field, along with historical
	work. Lecture, discussion, and in-class practice will give participants an opportu-	perspectives and current issues in physical education, will also be discussed. (F,
	nity to deepen their understanding of yoga theory and how it pertains to their daily practice. Students will explore how yoga exercises and relaxation practices pro-	Sp, Su)
	mote health and fitness through stress reduction. (F, Sp)	PFKN 210 Athletic Training Principles 3
	PFHW 133 Therapeutic Touch and Yoga 3	Prerequisite: Reading Level 5 and Writing Level 6

Prerequisite: None

Recommended: PFHW 130 (previously PFIS 134)

This course will combine the theories and practices of yoga and Therapeutic Touch (TT). The foundation of TT is yoga meditation. Classes provide practice in Energy Theory as it applies to individual learners and as an agent of healing. Balanced with TT will be breathing and relevant research and theory. (F, Sp)

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This course is an overview of prevention, management, and rehabilitation as each

relates to athletic injury. It also provides an examination of various techniques

used for the assessment, treatments, and rehabilitation of athletic injunes. Other

topics include legal implications for the athletic trainer, first aid principles, and tap-

Recommended: Biology

ing procedures. (Sp)

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PFKN 250 Measurements in Kinesiology

Prereguisite: Reading Level 5 and Writing Level 6 and Math Level 3 Recommended: PFKN 170

This is an introductory course which examines materials and methods used for assessment and analysis within Kinesiology. Emphasis will be placed on procedures and tools used within the various sub-disciplines. Measurement and evaluation methods will address motor skills, physical fitness, and psychological components associated with physical fitness. (F, Sp)

PFKN 260 Growth and Motor Behavior

Prereguisite: Reading Level 5 and Writing Level 6. This is a fundamental course which investigates the relationship between biological maturation and physical growth as it relates to motor performance and motor skills learning. The course will also cover fundamentals of motor learning, stages of skill acquisition, physical fitness, and motor abilities of children and youth. (F, Sp)

PFKN 295 Ind Study in Physical Fitness .5-4 Prerequisite: None

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (F, Sp, Su)

PFSP - Physical Fitness: Team and Individual Sports

PFSP 100 Aikido Prerequisite: None

This course is an introduction to the philosophy of Aikido. Basic movements of Aikido as a martial art are introduced. (F, Sp)

PFSP 101 Angling: Beginning

Prerequisite: None

This course introduces the student to angling with demonstrations of basic angling tackle and techniques. Information is provided on Michigan sport fish and their habitat. Fishing trips are taken for steelhead, walleye, salmon, trout, bass, and other game fish. Students are introduced to the excitement, satisfaction and mystique of fishing. (F, Sp)

PFSP 102 Basketball: Beginning Prerequisite: None This course introduces the student to the fundamental skills of basketball. Course emphasis is placed on ball handling, passing, shooting, and rules. (F, Sp) PFSP 103 Basketball: Advanced Prerequisite: None Recommended: PFSP 102 (previously PFTS 100) This course is designed for the student who has a sound understanding of basketball skills. Drills will be used to enhance passing and shooting skill development. Emphasis is placed on team play as well as individual skill improvement. (F, Sp) PESP 104 Bicycling Camping/Touring Prerequisite: None This course is a 2 1/2 day bicycle trip in a scenic area of Michigan. The class will include two nights of camping and two days of bike riding 35-45 miles each day. Base camp will be set up or a sag wagon will be used. Carrying your own gear will be optional. (F, Sp, Su) PFSP 105 Bowling: Beginning Prerequisite: None This course is a basic introduction to bowling. Primary emphasis is placed on spot

bowling, release, and approach. Students become familiar with bowling etiquette and scoring. (F, Sp, Su)

PFSP 106 Bowling: Advanced

Prereguisite: None

Recommended: PFSP 105 (previously PFIS 100)

This course is an extensive review of skills introduced at the beginning and intermediate levels. Students develop strategies in lane reading. (F, Sp, Su)

PFSP 107 Fencing: Beginning

Prerequisite: None

This course is designed to introduce the student to basic skills and theories in foil fencing. Course emphasis is placed on basic skills such as advance, retreat, lunge, disengage, coupe', one-two double', riposte, counter parry and riposte, and advance-lunge, Group instruction is used. (F, Sp)

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PFSP 106 Fencing: Intermediate

Prerequisite: PFSP 107 2.0 minimum (previously PFCW 100) This course builds upon the 12 basic fencing skills and introduces rules and complex fencing movements. Students will use acquired skills in fencing bouts. (F. Sp)

PFSP 109 Golf: Beginning

Prerequisite: None

This course is an introduction to the basics of golf which include equipment, grip, stance and posture, club swing, and the rules and etiquette of golf. (F, Sp. $\mathrm{Su})$

PFSP 110 Golf: Intermediate

Prerequisite: None

Recommended: PFSP 109 (previously PFIS 103) This course will review the basics of golf: equipment, grip, stance and posture. and club swing. Students will be given drills to foster and improve proper swing mechanics for course play. (F, Sp, Su)

PFSP 111 Indoor Soccer

Prerequisite: None

This course is designed to introduce students to the basics of indoor soccer. Passing and shooting drills are emphasized along with team play. Modifications to soccer rules are used to accommodate indoor soccer rules. (F, Sp, Su)

PFSP 112 Judo: Beginning

Prerequisite: None This course is designed to familiarize students with basic Judo techniques of falling, throwing, and grappling. (F, Sp, Su)

PFSP 113 Judo: Intermediate

Prerequisite: None

Recommended: PFSP 112 (previously PFCW 103)

This course works toward a series of sequential Judo movements with continued emphasis on throwing and grappling. (F. Sp) $% \left({{F_{\rm{B}}}} \right)$

PFSP 114 Karate: Beginning

Prerequisite: None This course introduces the basic skills of karate: kicking with the feet and knees. and punching with the fist and hands. (F, Sp, Su)

PFSP 115 Karate: Intermediate

Prerequisite: None

Recommended: PFSP 114 (previously PFCW 105) This course further develops karate skills in punching with the fists and hands. kicking with feet and knees, and essential body movement in combative activities

with an emphasis on free sparring. (F; Sp, Su)

PFSP 116 Karate: Advanced

Prerequisite: None

Recommended: PFSP 114 (previously PFCW 105) or PFSP 115 (previously PECW 106)

This course places primary emphasis on the development of sparring techniques as they relate to punching and kicking. Students spar and move toward the competitive aspect of karate as a martial art. (F, Sp, Su)

PFSP 117 Pool: Beginning

Prerequisite: None

This course introduces students to the fundamentals of pool (pocket billiards). Primary course emphasis is on stance, grip, bridge, aim, and stroke. Cue ball position shots such as stop, follow, draw, and center are covered. (F, Sp)

PESP 118 Pool: Intermediate

Prerequisite: None

Recommended; PFSP 117 (previously PFIS 108) This course reviews the fundamentals of stance, grip, bridge, aim, and stroke. Skill improvement and concentration techniques are stressed. (F, Sp)

PFSP 119 Table Tennis: Beginning

Prerequisite: None

This course is an introduction to table terinis as played by tournament players. Strokes covered include forehand and backhand topspin drives, pushes and blocks, and defensive strokes. Discussions will include the rules of table tennis tournaments. (F, Sp, Su)

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PFSP 120 Table Tennis: Intermediate

Prerequisite: None

Recommended: PFSP 119 (previously PFIS 111)

This course is an extension of the beginning course and provides more training in the basic strokes. More advanced strokes such as the loop and the lob are covered. (F, Sp, Su)

PFSP 121 Competitive Table Tennis

Prereguisite: None

Recommended: PFSP 119 (previously PFIS 111)

This course is offered for students who are considering participation in United States Table Tennis Association-sanctioned tournaments. Match play is stressed. Rules are discussed in detail and observed during practice. Footwork and service practice are strongly encouraged. (F, Sp, Su)

PFSP 122 Tai Chi I

Prerequisite: None

This course introduces the first 30 forms of the Yang-style Tai Chi. Students develop techniques to focus on relaxation and inner calmness. (F, Sp)

PFSP 123 Tai Chi II

Prerequisite: None

Recommended: PFSP 122 (previously PFIS 120)

This course covers more difficult forms in Tai Chi. Yang-style Tai Chi stresses the health and well-being of the whole person. Yang-style movements allow students to move in slow, smooth, steady, and continuous movement. (F, Sp)

PFSP 124 Tennis: Beginning

Prerequisite: None

This course will introduce the student to the following skills: ground strokes, serve, volley, lob, and overhead serving as well as doubles and singles strategy. (F, Sp)

PFSP 125 Tennis: Intermediate

Prerequisite: None

Recommended: PFSP 124 (previously PFIS 115)

This course will introduce the student to the lob, half volley, and a number of different serves. The student should be able to demonstrate and execute the fundamentals of tennis: ground strokes, net volley, serve, and the knowledge of scoring the game. (F, Sp)

PFSP 126 Volleyball: Beginning

Prerequisite: None

This course introduces the student to the fundamental skills of volleyball. Course emphasis is on proper serving, setting, forearm passing, splking, positioning, rules, and game strategy (F, Sp)

PFSP 127 Competitive Volleyball

Prerequisite: None

Recommended: PFSP 126 (previously PFTS 103)

This course provides the student with a conceptual framework for advanced offensive and defensive systems of volleyball. Individuals work on skill drills and intraclass competition. (F, Sp) ϕ

PFWT - Physical Fitness: Weight Training

PFWT 112 Intro to Weight Training

Prerequisite: None

This basic resistance (weight) training course is designed to introduce resistance training and proper lifting techniques to students. Safety rules, proper use of equipment, and concepts of lifting will be emphasized. (F, Sp, Su)

PFWT 123 Weight Training I

Prerequisite: None

This course is designed to promote physical fitness through progressive resistance (weight) training. Instruction will include principles, methods and techniques of resistance training. Using this material, students will design their own program with emphasis on muscle strengthening, muscle endurance and weight reduction. Principles of proper body mechanics will be applied. (F, Sp, Su)

PFWT 124 Weight Training II

Prerequisite: None

Recommended: PFWT 112 (previously PFWT 109) or PFWT 123 (previously PFWT 108)

This course expands students knowledge of progressive resistance (weight) training, (using both free weights and machines), thus increasing the variety and methods of training techniques. Students will monitor their food intake throughout the semester, further developing an understanding of the impact of appropriate dietary habits on resistance training. (F, Sp, Su)

PHIL - Philosophy

PHIL 151 Intro: Logic & Critical Think

Prerequisite: Reading Level 5

Introduction to modern logic and elements of reasoning, with special attention given to the roles of language in reasoning, distinguishing deductive from inductive arguments, recognizing levels of meaning and differing world views (Weltanschauungen), analyzing truth-functional relations, avoiding fallacious reasoning or misleading language, and using logical skills in everyday life. (F, Sp, Su)

PHIL 152 Introduction to Ethics

Prerequisite: Reading Level 5

Designed to explore essential requirements for moral reasoning and to call attention to both the factual foundation as well as the traditional criteria utilized for value judgments. Major ethical theories will be discussed, along with their applications to everyday situations. The course will include cross-cultural references, when appropriate. (F, Sp, Su)

PHIL 153 Knowledge and Reality

Prerequisite: Reading Level 5

Select issues from classical and contemporary philosophy provide an introduction to differences between knowledge and opinion, ways of supporting knowledge claims, and the relationship between the knower and what exists. (F)

PHIL 211 World Philosophies I

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: WRIT 121 or WRIT 131

Surveys major developments in theories of knowledge, reality, ethics, and society, and their historical role in shaping cultures and human identity. Covers Chinese, Indian, Greek, Roman, Christian, Islamic, and European thought from mythic beginnings to the period of early scientific reasoning. (F, Sp)

PHIL 212 World Philosophies II

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: WRIT 121 or WRIT 131

Surveys major developments in theories of knowledge, reality, ethics, and society, and their historical role in shaping cultures and human identity. Covers European, Asian, African, Native American, and American pragmatic thought from the scientific revolution to contemporary global concerns. (Sp)

PHIL 260 Contemporary Ethical Problems

Prerequisite: Reading Level 5 and Writing Level 6

This is an advanced course designed to examine contemporary moral issues which arise through technological and social developments. It will explore the limits of traditional ethical theories and/or their possible adaptation to a changing world. Where appropriate, course includes issues of cross-cultural importance, which involve multinational concerns. (Sp)

PHIL 295 Indep. Study in Philosophy Prerequisite: Department Approval

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An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (F, Sp, Su)

PHON - Phonics

PHON 108 Introduction to Phonics

Prerequisite: Reading Level 1 and Writing Level 1 Explores the relationship of English language sounds to their corresponding

printed alphabetical letters and letter combinations. Examines rules governing variations in these sounds, the process of syllabication, accent, the dictionary pronunciation system, structural analysis of words, and the relationship of phonics to reading and spelling. (F, Sp)

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PHYS 120 - PSYC 202

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PHYS Physics

PHYS 120 The Art of Physics

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4 This course reveals the wonders of the physical universe by giving students a basic understanding of motion, forces, accustics and optics. Designed for students in the Humanities; Art, Design & Multimedia; or other non-science areas. Extensive hands-on activities and laboratory exercises supplement the lecture. (F, Sp)

PHYS 200 Applied Physics

Prerequisite: Math Level 4 The basic principles of force, work, rate, resistance, energy and power are applied to four systems: mechanical (linear and rotational), fluid (liquid and gases), electrical and thermal systems. They are developed by utilizing unifying concepts through mathematical expressions. Designed for vocational programs including chemical processing, industrial technology, and machine maintenance. (F, Sp)

PHYS 221 Introductory Physics I

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 9 First semester of algebra-based physics with laboratory, presents the fundamental principles of physics, with applications. Topics in mechanics include one and two dimensional kinematics, forces, energy and work, momentum and impulse, circular motion and rotational dynamics, conservation laws, elasticity and simple harmonic motion. Experiments and hands-on activities complement lecture topics. (F, Sp, Su)

PHYS 222 Introductory Physics II

Prerequisite: PHYS 221 2.0 minimum or (PHYS 201 2.0 minimum and PHYS 225 2.0 minimum)

Second semester continuation of algebra-based physics with laboratory, designed to present the fundamental principles of physics, with applications. Topics include electricity and magnetism, simple harmonic motion, waves, sound, light, geometric and physical optics. Experiments and hands-on activities complement the lecture topics. (F, Sp)

PHYS 251 Physics I: Mechanics

Prerequisite: MATH 152 2.0 minimum or Concurrently and Reading Level 5 and Writing Level 6

First in a two-semester sequence of calculus-based physics with laboratory for science and engineering students. Topics include forces and motion, momentum, work and energy, conservation laws of energy and momentum, rotational motion, static equilibrium, gravitation, oscillations. May include relativity, nuclear physics, thermodynamics. Experiments and hands-on activities complement lecture topics. (F, Sp, Su)

PHYS 252 Physics II:Electrom/Wave/Optic 5

Prerequisite: PHYS 251 2.0 minimum or (PHYS 215 2.0 minimum and PHYS 225 2.0 minimum) and MATH 152 2.0 minimum

Second in a two-semester sequence of calculus-based physics with laboratory for science and engineering students. Topics include electric and magnetic forces and fields, electromagnetic energy, currents and circuits, electromagnetic oscillations and waves, mechanical waves and sound, light waves, physical and geometrical optics. Experiments and hands-on activities complement lecture topics. (F, Sp, Su)

POLS - Political Science

POLS 120 American Political System

Prerequisite: Reading Level 5

An analysis of the American political system. Emphasis is given to the federal system, with special attention to American government at the national level. A study of national governmental institutions, their activities, their functions and methods of organizing resources and making policy. Emphasis is placed upon how democracy depends on political participation by an informed public. Consideration is placed on participation through public opinion, political parties, interest groups, the mass media and social movements. (F, Sp, Su)

POLS 121 State and Local Government

Prerequisite: Reading Level 5

A study of state and local governmental institutions, their activities, functions, methods of organizing resources and making policy. Consideration is given to relationships between governmental units and problems they confront, including relations between federal, state and local government. Emphasis is placed upon how democracy depends on political participation by an informed public. (F, Sp, Su)

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POLS 205 Government Internship

Prereguisite: None

This course offers the student a chance to observe the actual workings of the political process by participating in it. Participation will provide students an exposure to public policy making and an opportunity to reflect on that process through course assignments. The program covers all levels of government, from city and township through the federal level. (F, Sp)

POLS 206 Advanced Government Internship

Prerequisite: None

This course offers the student a chance to observe the actual workings of the political process by participating in it. Participation will provide students an exposure to public policy making and an opportunity to reflect on that process through course assignments. The program covers all levels of government, from city and township through the federal level. (F, Sp)

POLS 240 Introduction to Public Policy

Prerequisite: Reading Level 5

This course will provide an analysis of political and organizational processes which influence the formulation and implementation of public policy. Special attention will be given to the formulation, implementation, and evaluation of various selected public policies. Further, the course is intended to develop some skills for the evaluation and design of policies. (Sp)

POLS 250 US Political Parties/Elections

Prerequisite: Reading Level 5 and Writing Level 6

Emphasizes origins, structure, and functions of US political parties. Examines the election process and factors influencing election results. Emphasis is placed on the importance of organizing effective political action and citizen participation, and the role of interest groups in American politics. (F)

POLS 260 Comparative Political Systems

Prerequisite: Reading Level 5 and Writing Level 6

An introduction to the institutions, processes, and policies of political systems throughout the world. The course will compare political cultures and behavior in the United States, the industrial nations of Europe and Asia, and the developing nations, with special emphasis on the themes of democracy, participation, and political change. (F, Sp)

POLS 270 International Relations

Prerequisite: Reading Level 5 and Writing Level 6

A course in contemporary international relations, with emphasis on politics. Concepts, theories, and rudimentary methods are surveyed. The relationship between international politics and U.S. foreign and domestic policy is explored. (Sp)

POLS 295 Ind Study in Political Science

Prerequisite: Department Approval

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (F, Sp, Su)

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PSYC - Psychology

PSYC 175 Psych of Death:Prep for Living .

Prereguisite: Reading Level 5

Examines psychological theories, concepts, and research that pertain to the study of death and personal death awareness. Topics include cross-cultural and historical perspectives, health care systems, medical ethics, grief/loss issues, funerais and body disposition, legal and social issues, death in modern society, suicide and beliefs about life after death. (Sp)

PSYC 200 Introduction to Psychology

Prerequisite: Reading Level 5

The basic orientation to the field of psychology, designed as a general survey and as preparation for advanced courses in the field. Topics include methods, nervous systems, intelligence, development, learning, memory, personality, abnormality, therapy, and social behavior. (F, Sp, Su)

PSYC 202 Psychology of Personality

Prerequisite: PSYC 200 2.0 minimum and Reading Level 5 and Writing Level 6 A survey of the leading theories of personality and personality development. Topics include Freudian/psychodynamic, trait, behavioral, humanistic, and Yoga/Buddhist theories, assessment of personality, and major personality theorists. (F, Sp)

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PSYC 203 Social Psychology

Prerequisite: (PSYC 200 2.0 minimum or SOCL 120 2.0 minimum) and Reading Level 5 and Writing Level 6

A theoretical and empirical approach to understanding individual social and group behavior. Examines the person and the social environment with a focus on attitudes, attributions, interpersonal and intrapersonal behavior, and group processes. (F, Sp)_r

PSYC 205 Human Growth and Development

Prerequisite: PSYC 200 2.0 minimum and Reading Level 5 and Writing Level 6 A study of the human life cycle from conception to death. Designed to investigate, describe, and explain changes in the physical, social, emotional, and cognitive areas that are a result of the continuous interaction of maturation and experience. (F, Sp, Su)

PSYC 209 Cognitive Psychology

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Prerequisite: PSYC 200 2.0 minimum and Reading Level 5 and Writing Level 6 Cognitive psychology is the study of the human mind; its domain includes questions concerning how people perceive the world, remember information, use knowledge, understand language, learn, reason, and solve problems. (F)

PSYC 210 Brain and Behavior

Prerequisite: (PSYC 200 2.0 minimum or BIOL 121 2.0 minimum or BIOL 127 2.0 minimum) and Reading Level 5 and Writing Level 6

Brain and Behavior integrates psychology and biology, emphasizing how the nervous system controls behavior. The course provides an examination of the structure and function of the nervous system and the neurobiological bases of mental illness, drug abuse, movement, sleep, memory, feeding and drinking, sensory processing, and neurological disorders. (Sp)

PSYC 221 Child Psychology

Prerequisite: PSYC 200 2.0 minimum and Reading Level 5 and Writing Level 6 Explores theories and principles of child cognitive and physical development from conception to puberty. The course covers psychological, sociological, and biological aspects of maturation and development. Topics include issues such as moral development, social development, language development, and cultural and cross cultural influences on the developing child. (F, Sp)

PSYC 222 Adolescent Psychology

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Prerequisite: PSYC 200 2.0 minimum and Reading Level 5 and Writing Level 6 Examines theoretical and empirical literature related to adolescence, emphasizing biological, psychological, and sociological aspects of maturation and development from puberty to young adulthood. Topics include the adolescent's search for identity; influences of culture, family, school and peer group; and problems and pathologies in adolescence. (Sp)

PSYC 240 Psychology of Human Sexuality

Prerequisite: Reading Level 5

An exploration of psychological aspects of human sexuality, including research methods, response, identity, development, attraction and intimacy, communication, orientation, attitudes, diseases, and disorders. (F, Sp)

PSYC 250 Abnormal Psychology

Prerequisite: PSYC 200 2.0 minimum and Reading Level 5 and Writing Level 6 A survey of the nature, development, diagnosis, and treatment of psychopathology viewed from a general-systems perspective (psychological, sociological, and biological). Major theories of causes, scientific research, and diagnostic and therapeutic techniques are studied with respect to various psychological disorders. (F, Sp, Sú)

PSYC 295 Indep. Study in Psychology 1-4 Prerequisite: Department Approval

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit, A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (F, Sp, Su)

QUAL - Quality Assurance

QUAL 100 Intro Quality Assurance

Prerequisite: None

This course examines the evolution and leaders of total quality management and introduces the concept of continuous improvement of processes, products and services. Practical techniques and methods for evaluating and improving quality and the organizational requirements for managing quality are included. (F, Sp)

QUAL 103 Probability/Stats Qual Assur Prerequisite: None

This course introduces the student to basic probability and statistics as related to quality assurance. Material covered includes probability concepts, average and standard deviation, discrete probability distributions, the normal distribution, the Central Limit Theorem, OC curves and basic acceptance sampling concepts. Computer applications are included. (F, Sp)

QUAL 203 Quality Systems Management

Prereguisite: None

Recommended: QUAL 100 or Work Experience in Quality

This course focuses on developing, managing and implementing quality assurance systems. Course material and assignments are designed to develop student skills in intracompany, supplier and customer quality relationships including quality planning, quality manual, procedure and job instruction development, communication, training and preparation for quality certification programs and continuous improvement. (Sp)

QUAL 251 Current Qual Assur Topics

Prerequisite: QUAL 100 1.0 minimum

A study of specific topics affecting quality assurance practices. This course is designed to expose students to the latest theories and practices in the areas of customer requirements, problem solving, quality management, measurement and statistics. Course format will include lectures, discussion, demonstration and hands-on experiences. (F, Sp, Su)

QUAL 252 Current QA Topics II

Prerequisite: QUAL 100 1.0 minimum

A study of specific topics affecting quality assurance practices. This course is designed to expose students to the latest theories and practices in the areas of customer requirements, problem solving, quality management, measurement and statistics. Course format will include lectures, discussion, demonstration and hands-on experiences (F, Sp, Su)

RDGR - Reading: Restricted

RDGR 101 Personal Reading I

Prerequisite: Reading Level 1 and Writing Level 1

One-credit laboratory course may be taken concurrently with other reading courses to provide extra instruction and practice. One-to-one instruction. (May repeat for credit three times.) (F, Sp, Su)

RDGR 102 Personal Reading II

Prerequisite: Reading Level 1 and Writing Level 1

Two-credit laboratory course may be taken concurrently with other reading courses to provide extra instruction and practice. One-to-one instruction. (May repeat for credit three times.) (F, Sp, Su)

RDGR 103 Personal Reading III

Prerequisite: Reading Level 1 and Writing Level 1 Three-credit laboratory course may be taken concurrently with other reading courses to provide extra instruction and practice. One-to-one instruction. (May repeat for credit three times.) (F, Sp, Su)

READ - Reading

READ 100 Reading Laboratory

Prerequisite: Reading Level 1 and Writing Level 1 Designed to teach fundamental reading skills through small group/individualized instruction, Intended for students whose reading skills lie within the READ Level 1 literacy range as indicated by the College Placement Test. (F, Sp, Su)

READ 108 Individualized Reading

Prerequisite: Reading Level 3 and Writing Level 2

Designed for average readers, especially adults in the working community, who wish to improve their reading proficiency with one-on-one/small group instruction and directed practice. Students concentrate on areas that need strengthening. (May repeat for credit three times.) (F, Sp, Su)

READ 111 Reading: Essential Strategies

Prerequisite: Reading Level 2 and Writing Level 2

Designed to provide a transition from mastery of basic reading skills and individualized tutorial literacy instruction to a mainstream, classroom learning experience. Includes emphasis in reading for main ideas, vocabulary development, improving comprehension, drawing conclusions from implied meaning, and application of techniques to insure academic survival. (F, Sp, Su)

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READ 114 - SCIS 296

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READ 114 Reading Skills

Prerequisite: Reading Level 3 and Writing Level 2

Designed to increase basic comprehension skills, build vocabulary, and prepare students for college-level reading through the exploration of effective study techniques. (F, Sp, Su)

READ 116 Reading Comprehension

Prerequisite: Reading Level 3 and Writing Level 4

Designed to extend beyond reading comprehension at the literal level, develop inferential ability and recognition of structure and expository patterns in reading and increase reading rate for greater reading efficiency. Additionally, attention is given to vocabulary improvement, multiple purposes of reading, importance of flexibility in reading, and increased concentration. (F, Sp, Su)

READ 165 Critical Reading

Prereguisite: Reading Level 5 and Writing Level 4

This course is designed to go beyond reading comprehension at the literal level and to develop in the individual the ability to grasp implied meanings and draw conclusions. The reader must also be able to perceive the structural and developmental pattern in written material and to judge rationally what he or she reads. (F, Sp, Su)

READ 175 Speed Reading - Adv Vocabulary

Prerequisite: Reading Level 5 and Writing Level 4

Designed for the student of an average or better-than-average reading ability. Increases reading rate and comprehension for greater efficiency in studying and in general reading. Special attention is given to vocabulary improvement, the multiple purposes of reading, the importance of flexibility in reading, and increased concentration. (F, Sp, Su)

REAL - Real Estate	.		
REAL 271 Introduction to Real Estate 2			
Prarequisite: None Overview of the real estate business. Emphasis on points of law and real estate principles useful to the beginning salesperson and/or potential buyer, seller, or investor. (F, Sp)			
REAL 273 Real Estate Investment 3 Prerequisite: None			
Recommended: REAL 271 or REAL 274 The emphasis of this course is on investment analysis, financing, depreciation, capital gains, exchanging, and federal tax implications of real estate acquisitions, ownership, and disposal. (F)			
REAL 274 Real Estate License Exam 3			

Prerequisite: None

Intense study in the fundamentals of real estate. Preparation for the State of Michigan License Examination, administered by the Applied Measurement Professionals (AMP). This class meets statutory requirements including four hours in fair housing. (F, Sp, Su)

REAL 275 Real Estate Financing

Prerequisite: None

This course covers the significance and nature of mortgage lending, mortgage money markets, sources, types of mortgages, instruments, qualifying, the land contract and its use, administration of a mortgage loan, and a loan portfolio and methods of foreclosure. (F, Sp)

REAL 277 Property Management

Prerequisite: None

Covers management and the market, marketing residential and commercial rental space, creating an organized management plan, tenant and landlord laws, rent collection, leases, tenant screening, fair-housing requirements, tenant-owner relations, accounting for investment properties, real estate as an investment, managing apartments, office space, retail stores, and special-purpose buildings. (F, Sp)

REAL 279 Residential Appraisal

Prerequisite: None

This is a survey course on the appraisal of the single family residence. It is designed to expose the student to the basic economic, political, social, and environmental foundations upon which real estate valuation rests. The student will then encounter the processes by which freestanding, single family dwellings are valued. Students will also be acquainted with professional standards and ethics. (F)

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REAL 280 Real Estate Law

Prerequisite: None

Recommended: REAL 271 or REAL 274

Topics covered in this course include: land and its elements, land titles, land interosts, abstracts and title insurance, deeds, easements, liens; mortgages, land contracts, foreclosures and landlord-tenant relations, private land-use controls including restrictions, condominiums, and tax policies pertaining to real estate. (Sp)

RELG 211 World Religions I

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Prerequisite: Reading Level 5 and Writing Level 6

This course describes and analyzes the beliefs and practices of Hinduism. Jainism, Buddhism, Sikhism, Confucianism, and Taoism in cultural context, from their origins to the present. It examines their influence on literature and the arts, beliefs and values, socioeconomic and political systems, and science and technology in world civilizations. (F)

RELG 212 World Religions II

Prerequisite: Reading Level 5 and Writing Level 6

This course describes and analyzes the beliefs and practices of Judaism, Christianity, Islam, and other Western religions in cultural context, from their origins to the present. It examines their influence on literature and the arts, beliefs and values, socioeconomic and political systems, and science and technology in world civilizations. (Sp, Su)

RELG 241 Old Testament Literature

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: WRIT 121 or WRIT 131 This course surveys the content of Judaism's Bible (Christianity's Old Testament) in its original Hebrew cultural/religious context, using insights of modern critical scholarship. Origins and early development of Hebrew religious beliefs and prac-

RELG 242 New Testament Literature

tices are examined, (F)

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: WRIT 121 or WRIT 131

This course surveys the content of Christianity's New Testament in its original Hebraic and Greco-Roman context, using insights of modern critical scholarship. Origins and early development of Christianity and its religious beliefs and practices are examined. (Sp)

RELG 250 Religions of East Asia

Prerequisite: Reading Level 5 and Writing Level 6

This course surveys the origins and development of East Asian religions. The religious beliefs and practices of Confucianism, Taoism, Buddhism (Mahayana and Tibetan), and Shinto are examined in terms of their vital role in the development of ancient and modern East Asian civilizations. (Sp)

SCIN - Science Technology Internship

SCIN 287 Science Technology Internship

Prerequisite: CHEM 151 2.0 minimum and CHEM 161 2.0 minimum and Department Approval

This course provides on-the-job training for an applied degree in science technology. Placement is made at an approved training site to earn credits for satisfactory work performance. This internship may be a paid or unpaid work experience. Students will apply knowledge and skills learned in academic courses to real world situations. (F, Sp, Su)

SCIS - Science Seminars

SCIS 296 Directed Histotech Studies

Prerequisite: Reading Level 3 and Writing Level 4 and Math Level 4 Restriction: Histologic Technician Certificate of Completion Recommended: High School Chemistry and Biology

This course gives students the opportunity to learn laboratory skills in Histotechnology. Histotechnology is the preparation of tissue specimens for microscopic evaluation. Students are challenged to analyze/evaluate their skills in safety, tissue processing, embedding, microtomy, special staining, quality assurance, problem solving and technical writing. (F, Sp, Su) College

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SCIS 297 Independent Study in Science 1-4 Prerequisite: Department Approval

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (F, Sp, Su)

SDEV - Student Development

SDEV 103 Preventing Parent Burnout

Prerequisite: None:

This course is designed to facilitate an understanding of parent burnout and its impact on mental and physical functions. The class will address causes, stages and symptoms, family and relationship dynamics, and problem solving. The course will provide multiple skills and mechanisms to cope with stress and prevent parent burnout. (F, Sp, Su)

SDEV 118 Stretching Your Dollars 2

Prerequisite: None

Assistance is given in very basic money management, budget procedures, record keeping, wise shopping practices, low-cost entertainment and recreation, effective debt payment methods, and financial goal-setting and planning. Consumer awareness and problems in the marketplace will also be addressed. (F, Sp, Su)

SDEV 121 Exploring Your Potential

Prerequisite: None

This course is designed to help each person identify past and present achievements which suggest the presence of strengths and potential. The goal of this class is greater realization of one's potential through self-determination. (F, Sp)

SDEV 123 Career Bridge

Prerequisite: None

Career Bridge enhances a smooth transition to college course work by helping the student identify a career direction, learn techniques of study, and build confidence in the pursuit of his or her educational goal. Positive behavioral choices will also be taught, including time management, the elimination of self-defeating behaviors, and increased self-esteem. (F, Sp, Su)

SDEV 124 Techniques of Study 2 Prerequisite: None

Prerequisite: None

Students examine their study habits and work toward practicing skills to enhance classroom performance. Classes include weekly lectures, discussions, and assignments. Skills covered include goal-setting, time management, notetaking, reading and memory strategies, library use, and taking exams. A valuable aid for beginning and advanced students. (F, Sp, Su)

SDEV 125 Career Planning

Prerequisite: None

Students learn a career planning process by identifying their interests, values, and skills through a variety of self assessment exercises. Students will utilize available resources to research career options and participate in classroom discussions on topics relating to career decision-making. (F, Sp, Su)

SDEV 126 Self-Defeating Behavior 2

Prerequisite: None

The goal of this course is to learn how self-defeating behaviors begin and are maintained, and how they can be eliminated. Behavior change is aimed at teaching people how to live life more fully and happily by identifying and cultivating life-giving behaviors. (F, Sp, Su)

SDEV 130 Job Search Skills 1

Prerequisite: None

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Skills and techniques in the job search process are taught. Course content covers filling out application, writing resumes and cover letters, interviews, and other techniques used in seeking employment. Group discussions focus upon personal attitude toward job hunting. (F, Sp, Su)

SDEV 135 Tools for College Success

Prerequisite: None

This course provides an introduction to the college experience and to skills that students need to be successful. Topics covered include academic and self-management issues that affect student performance, such as goal-setting, study skills, time management, communication, relationships, career planning, problem-solving, finances and health. (F. Sp, Su)

SDEV 140 Online Learning Skills

Prerequisite: None

Course provides an introduction to online learning. Students will receive training and information on skills needed for online college classes, including Blackboard (course software), internet research, independent learning, online communications, virtual group projects, chat room usage, discussion board postings online student services, technical support and other relevant study skills. (F, Sp, Su)

SDEV 142 Assertiveness I

Prerequisite: None

This course teaches assertiveness. Assertiveness is behavior where a person expresses her or his opinions, feelings, beliefs, wants, personal rights and values in a way that respects the rights of others. Techniques covered teach participants to identify and practice exercising interpersonal rights and assertive skills. (F, Sp,-Su)

SDEV 157 Single Parenting

Prerequisite: None

This course includes such topics as communication, discipline, time-structuring; and the unique concerns of adults faced with the responsibilities of raising children in a single parent family. (F, Sp)

SDEV 169 Women as Winners

Prereguisite: None

This course is designed to offer participants new tools for insight, self-awareness, and understanding so that they can learn to set their own goals, emancipate themselves from the boundaries they have set for themselves, and, therefore, learn to become more authentic and self-actualizing. (F, Sp, Su)

SDEV 190 Success Group

Prerequisite: None

Designed to stress improvement of academic performance, the course provides mutual support and deals directly with the problems of underachievement. Students will learn to set and achieve short-term goals, identify motives and attitudes, and study behaviors that lead to success and those that are related to tail-ure. (F, Sp)

SDEV 192 Counseling for College Success ,

Prerequisite: None

Designed to stress improvement of academic performance, the course provides mutual support and is solution-focused on setting and achieving short-term goals. Students learn to identify motives, attitudes, and behaviors that lead to success. Group interaction will enhance understanding. (F, Sp, Su)

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SDEV 195 Build Healthy Relationships I

Prerequisite: None

For those who wish to take a serious look at "what helps" and "what hurts" in building human relationships. Insights can be applied to any type of relationship and will help participants focus on changes they can/need to make in building a healthier relational lifestyle. (F, Sp, Su)

SDEV 204 Self-Defense and Women 1

Prerequisite: None

This seminar is a combination of consciousness-raising and skill-building experiences intended to increase students' understanding, resources, and skills in sexual assault prevention and self-defense. Self-defense techniques taught in this seminar will focus on responses to unarmed attacks. (F, Sp, Su)

SDEV 205 Self-Defense and Women II

Prerequisite: SDEV 204 or Concurrently

This seminar is both a review and expansion of the techniques and skills taught in Women and Self-Defense I (SDEV 204). Self-defense techniques taught in this class will focus on "ground defense," responses to armed attacks, multiple attacksers, and special assaultive situations. (F, Sp. Su)

SDEV 225 Parenting in the Millennium

Prerequisite: None

This course will help parents move from "unconscious" to "conscious" parenting, changing from a parental domination to a relationship-centered model. The influence of childhood on parenting style, impact of communication in child-rearing, and understanding the power of the child/parent relationship are included. ($F_{\rm r}$ Sp)

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SDEV 240 Empathy Training

Prerequisite: None

The student will learn how to use empathy as a technique to deal with emotions, values, and decision making in the communication process. The skills will be taught in a small group emphasizing a supportive, experiential atmosphere. (F, Sp. Su)

SDEV 285 Build Healthy Relationships II

Prerequisite: SDEV 195 2.0 minimum

A continuation of skills taught in Build Healthy Relationships I (SDEV 195). New techniques will be learned so that healthier relational choices can be made. Students will learn that codependency is an unhealthy way of relating to oneself and others. Emphasis will be on the conviction that each person can grow and heal, and engage in conscious, committed, cooperative relationships. (F, Sp)

SIGN-SI	gn Language	The second second second second second second second second second second second second second second second se

SIGN 160 Orientation to Deafness

Prerequisite: Reading Level 5

This course is designed to introduce the student to pathological and cultural perspectives on deafness and the implications those perspectives have for persons who are deaf. Elements of the communications process, nonverbal communication, group dynamics, research and oral presentation skills will also be covered, via lectures, readings and group discussions. (F, Sp, Su)

SIGN 161 American Sign Language I 3

Prerequisite: None

Recommended: SIGN 160 2.0 minimum or Concurrently This course provides basic knowledge of American Sign Language vocabulary and grammar. Pantomime is also used to explore nonverbal communication and

its function within ASL. Elements of the communication process, ASL presentation skills, and group dynamics will also be covered. Designed for students intending to become sign language interpreters. (F, Sp, Su)

SIGN 162 American Sign Language II

Prerequisite: None

Recommended: SIGN 161 2.0 minimum

Designed to increase students' knowledge and use of American Sign Language vocabulary and grammar, as well as to focus on specific grammatical elements for more in-depth analysis and practice. Intended for students who plan to become sign language interpreters. (F, Sp, Su)

SIGN 163 American Sign Language III	
Prerequisite: None	
Recommended: SIGN 162 2.0 minimum	

Designed to provide additional vocabulary and synthesis of grammatical elements of American Sign Language through expressive and receptive use of conversational sign language. Intended for students who plan to become sign language interpreters. (F, Sp, Su)

SIGN 164 American Sign Language IV

Prerequisite: SIGN 163 2.0 minimum

This course is intended to build conceptual understanding and use of American Sign Language. Students will develop American Sign Language skills by interpreting in ASL paragraphs which are presented in English context. Designed for students intending to become sign language interpreters. (F)

SIGN 166 Fingerspelling 2 Prerequisite: SIGN 161 2.0 minimum

Recommended: SIGN 162 2.0 minimum or Concurrently

This course provides the student with concentrated instruction and practice in both expressive and receptive fingerspelling skills. Designed for students intending to become sign language interpreters. (F, Sp, Su)

SIGN 167 Beginning Sign to Voice

Prerequisite: None

Recommended: SIGN 162 2.0 minimum

Designed to increase the student's receptive skills in conversational sign language focusing on comprehension of the various manual communication systems utilized by deat persons. Sign-to-voice techniques and practice will be introduced through use of prepared videotapes. Intended for students who plan to become sign language interpreters. (F, Sp, Su)

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SIGN 168 Expressive Manual Commun Prerequisite: SIGN 162 2.0 minimum

This course focuses on synthesizing grammatical elements of American Sign Language and using them in an expressive mode, it creates awareness of conversational behaviors used by the deaf community and provides practice of those behaviors in classroom and other settings. Designed for students intending to become sign language interpreters. (Su)

SIGN 169 Receptive Communication

Prerequisite: SIGN 163 2.0 minimum or Concurrently and SIGN 167 2.0 minimum or Concurrently

This course enhances the students' receptive and voicing skills, specifically skills needed to pass the Interpreter Training Program Screening Assessment (ITP Test), such as ASL vocabulary recognition, English sentence structure, and vocal tone and volume. Topics will be covered using videos, lectures, guest signers, and in-class activities. (Su)

SIGN 176 Advanced Fingerspelling

Prerequisite: SIGN 166 2.0 minimum

This course provides the student with advanced concentrated instruction and practice in both expressive and receptive fingerspelling skills. Designed for students intending to become sign language interpreters. (F, Sp, Su)

SIGN 240 Interpreting/Transliterating

Prerequisite: Successful ITP Screening

American Sign Language vocabulary will continue to be developed while learning about the interpreting process. Students will analyze text and demonstrate the ability to facilitate communication in both ASL sentence structure or English word order. Course is designed for students intending to be sign language interpreters. (F)

SIGN 250 Deaf Culture and History

Prerequisite: SIGN 163 2.5 minimum

This course looks closely at the unique experiences of those in the deaf community. It examines the history of the deaf community in America and the sociology of the hearing-impaired (both deaf and the hard-of-hearing). Designed for students intending to become sign language interpreters. (Sp)

SIGN 260 Linguistic Principles of ASL

Prerequisite: SIGN 163 2.0 minimum

An overview of the linguistic organization of ASL, including a linguistic perspective on how ASL is learned and how it is (and is not) influenced by English. Topics relevant to interpreting, such as language variation and translation, will be emphasized. Designed for students intending to become sign language interpreters. (F)

SIGN 261 Principles of Interpreting

Prerequisite: Successful ITP Screening

Surveys professional interpreting through lecture, role-playing, and classroom discussion. Introduces the ethics of interpreting and, roles and responsibilities of the professional interpreter. Examines necessary skills of the interpreter in various settings: educational, mental health, vocational rehabilitation, legal, religious, phone, television, medical, deat, blind, and minimal language skills. (F)

SIGN 262 Mock Quality Assurance (QA)

Prerequisite: SIGN 261 2.5 minimum

This course provides students with simulated testing interpreter/transliterating settings using interactive videotapes of hearing and deaf individuals with the purpose of developing skills necessary for interpreter evaluation. Designed for students intending to become sign language interpreters. (Su)

SIGN 263 Intermediate Sign to Voice

Prerequisite: SIGN 240 2.5 minimum and SIGN 261 2.5 minimum

This course develops and refines necessary basic skills and fluency in receptive sign language and for voicing all levels of communication of deaf individuals. Techniques taught include interpreter task analysis, listening, attending, internal message formulation, vocabulary search, and monitoring output. Designed for students intending to become sign language interpreters. (Sp)

SIGN 264 Advanced Sign to Voice

Prerequisite: SIGN 263 2.5 minimum This course provides advanced skill development and fluency in voicing for all communication levels of deaf persons. Techniques taught are voice projection, breathing and relaxation, analysis of sign information, anticipation and prediction, closure, modality switching, correction, image search, decalage, and pacing. Designed for students intending to become sign language interpreters. (Sp) з

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SIGN 265 Adv Interpreting/Transliterat

Prerequisite: SIGN 262 2.5 minimum

This course continues the development of skills necessary for interpreter evaluation/qualification. Students will be provided with simulated testing situations using interactive videotapes of hearing/deaf individuals requiring students to interpret/transliterate. Designed for students intending to become sign language interpreters. (F)

SIGN 267 Sign Internship I

Prerequisite: SIGN 261 2.5 minimum

Combines student transiterated lectures and supervised placement in various interpreting settings to allow directed observation and application of practical interpreting skills. Students will spend an additional 8 hours a week in their placement setting. Designed for students intending to become sign language interpreters. (Sp)

SIGN 268 Sign Internship II

Prerequisite: SIGN 267 2.5 minimum

Combines student interpreted lectures and supervised placement in various interpreting settings to allow directed observation and application of practical interpreting skills. Students will spend an additional 8 hours a week in their placement setting. Designed for students intending to become sign language interpreters. (Su)

SIGN 294 Sign Lang Interpreting Seminar

Prerequisite: SIGN 262 2.5 minimum

Special topics for intermediate and advanced interpreters. Topics cover a broad range of subjects related to the interpreting field and include preparation for state and national exams. (F, Sp, Su)

SIGN 295 Indep. Study in Sign Language

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Prerequisite: Department Approval Recommended: SIGN 261 2.0 minimum

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. Restricted to students intending to become sign language interpreters. (F, Sp, Su)

SOCL - Sociology

SOCL 120 Introduction to Sociology

Prerequisite: Reading Level 5

A survey of major theoretical perspectives, concepts, and methods of sociology. Emphasis is given to societal origins, social organization; culture; cultural diversity; socialization; stratification; social institutions; and social change within a global context. (F, Sp, Su)

SOCL 180 Introduction to Latino Studies 3

Prerequisite: Reading Level 5

A survey of social forces that have shaped the experience of Latinos in the U.S. An exploration of Latino relations with non-Latino groups and social institutions using a structural framework which considers race, class and gender. Emphasis is placed on the diversity of the Latino community and current social trends. (F)

SOCL 185 Intro to African-American Stdy

Prerequisite: Reading Level 5

A survey of culture and social structure of people of African descent and their role in the making of the US society. Theories and concepts pertinent to understanding the development and dynamics of contemporary African-American experience will be explored. Topics include slavery, multiculturalism, civil rights movement and affirmative action. (Sp)

SOCL 254 Marriage and Family

Prerequisite: (SOCL 120 1.0 minimum or PSYC 200 1.0 minimum) and Reading Level 5

Survey of theoretical perspectives on the institutions of marriage and family. Topics include sex, gender, gender roles, sexual behavior, values, psychological needs, divorce, parenting and family problems. Variations in family types and lifestyles among diverse groups within the U. S. and elsewhere will be examined within the context of social change. (F, Sp)

SOCL 255 Contemporary Social Problems

Prerequisite: SOCL 120 1.0 minimum and Reading Level 5 This course is a theoretical and empirical survey of the nature and causes of social problems such as poverty, crime, racial and gender inequality, demographic and environmental changes, health care, education and family stability are examined. Examples from other societies will be used for comparative analysis and establishing global links. (F, Sp, Su)

SOCL 260 Race and Ethnicity

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Prerequisite: SOCL 120 1.0 minimum and Reading Level 5 An introduction to the culture and contemporary lifestyles of minority groups throughout the world. Emphasis is placed on sociological/anthropological concepts and theories with respect to selected minorities. Included are ethnic and racial groups in the U.S. and other societies found in Africa, Asia, Europe, Latin America, and North America. (F, Sp)

SOCL 295 Independent Study in Sociology

Prerequisite: Department Approval

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit: A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (F, Sp, Su)

SOWK - Social Work

SOWK 101 Introduction to Social Work

Prerequisite: Reading Level 5 and Writing Level 6

This course introduces the principles of social work practice. Emphasis is on social work careers, description of methods, skills and standards of practice, definitions of the helping roles, survey of helping agencies and institutions, and overview of social issues and client needs relative to social work practice. (F, Sp. Su)

SOWK 203 Social Work Interviewing

Prerequisite: HUSE 100 2.5 minimum or SOWK 101 2.0 minimum and Reading Level 5 and Writing Level 6

This course examines the purposes and basic concepts of the interview relationship with emphasis on the helping interview. It provides instruction in the techniques of interviewing with an opportunity to engage in practice interviews, including videotaping and feedback. (F, Sp)

SOWK 205 Social Welfare

Prerequisite: SOWK 101 2.0 minimum or HUSE 100 2.5 minimum

This course introduces the definition and concept of social welfare, its history, programs, attitudes, values, and philosophy. It emphasizes the development of private and public services, changing patterns of services, the evolving changes in the Social Security Act and community action, with attention to current issues in social welfare policy. (Sp)

SPAN - Spanish

SPAN 115 Conversational Spanish I

Prérequisite: None

First course of a two-semester sequence in conversational Spanish. Designed for persons who have no knowledge of Spanish and who wish to develop basic conversational skills in the language. Course emphasizes pronunciation of Spanish sounds, practical vocabulary, culture, and essential grammar for communication. Class taught largely in Spanish. (F, Sp, Su)

SPAN 116 Conversational Spanish II

Prerequisite: None

Recommended: SPAN 115 or Equivalent Second course of a two-semester sequence in conversational Spanish. Designed for persons who have some knowledge of the language and wish to continue developing basic conversational skills. Course emphasizes practical vocabulary, some aspects of Hispanic culture, and essential grammar for communication; Class taught largely in Spanish. (F, Sp, Su)

SPAN 121 Elementary Spanish I

Prerequisite: Reading Level 5

First course of a two-semester sequence in elementary Spanish. Designed for persons with no knowledge of Spanish who wish to develop basic language skills. Elementary practice in listering comprehension, speaking, reading, and writing. Provides useful information about the Spanish-speaking world. Class taught largely in Spanish. (F, Sp, Su)

SPAN 122 Elementary Spanish II

Prerequisite: SPAN 121 1.5 minimum and Reading Level 5 Second course of a two-semester sequence in elementary Spanish. Introduces more complex structures while developing a foundation in the essentials of the language. Emphasizes practice in listening comprehension, speaking, reading, and writing. Provides useful information about the Spanish-speaking world. Class taught largely in Spanish. (Sp)

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SPAN 201 Intermediate Spanish I

Prerequisite: SPAN 122 1.5 minimum and Reading Level 5 First course of a two-semester sequence in intermediate Spanish. Begins with review of grammar, and continues with intensive vocabulary building, listening comprehension, and writing compositions. Encourages conversation by introducing discussions about the cultures of the Spanish-speaking world. Class laught entirely in Spanish. (F)

SPAN 202 Intermediate Spanish II

Prerequisite: SPAN 201 1.5 minimum and Reading Level 5 Second course of a two-semester sequence in intermediate Spanish. Continues a review of grammar, intensifies vocabulary building, strengthens listening comprehension and composition writing, and improves oral fluency through intense discussions on the cultures of the Spanish-speaking world. Class taught entirely in Spanish. (Sp)

SPCH - Speech Communication

SPCH 110 Oral Communic in the Workplace

Prerequisite: Reading Level 5 and Writing Level 6

Introduction to oral communication skills in business and technology. Students will learn to interact effectively in diverse workplace situations. Activities include participating in interviews, managing group dynamics, giving planned presentations, and using current technology to enhance business communication. (F, Sp, Su)

SPCH 120 Dynamics of Communication

Prerequisite: Reading Level 5 and Writing Level 6

Introduction to the theory and practice of speaking and listening effectively in interpersonal, group, and public communication situations. The course utilizes readings, lectures, discussions, learning activities, and oral and written assignments to help students both understand the communication process and become more skillful interpersonal, group (team), and public communicators. (F, Sp, Su)

SPCH 130 Fundamental of Public Speaking

Prerequisite: Reading Level 5 and Writing Level 6

Helps beginning speakers develop skills and confidence needed to speak effectively to audiences in public situations. Students learn proper techniques for researching, developing, organizing, outlining, and delivering effective informative, panel and persuasive presentations. At the same time they learn interpersonal concepts that affect their work in group presentations. (F, Sp; Su)

SPCH 140 Interpersonal Communication

Prereguisite: None

Introduction to fundamental principles and skills of interpersonal communication. Students investigate techniques for interacting effectively in family, intercultural, and male/female relationships. Class discussions, learning activities, and assignments.assist students in examining the impact of their communication on others and in developing effective interpersonal skills. (F, Sp, Su)

SPCH 260 Nonverbal Communication

Prerequisite: None

Introduction to the ways people communicate without words. Students investigate nonverbal communication theory and research and learn the messages that gestures, facial expressions, vocal cues, physical appearance, clothing, touch, distance, and time convey in American and foreign cultures. Students' nonverbal communication skills are enhanced through assignments and in-class learning activities. (F)

SPCH 270 Mass Communication

Prerequisite: Reading Level 5 and Writing Level 6

Introduction to broadcast, film, and print media and their impact on the individual and society. Students investigate theory and research on topics including values the media convey, media, stereotypes, violence, news, advertising, and the role of media in political campaigns. Assignments and observational projects help students become enlightened media consumers. (Sp)

SPCH 280 Intercultural Communication

Prerequisite: None

Introduction to the theory and practice of successful intercultural communication. Students will investigate how communication is affected by such factors as: dimensions of cultures, cultural values, world views, relationships, and social institutions. Readings, guest speakers, discussions, learning activities, and assignments will help students become ethical and skillful intercultural communicators. (F, Sp)

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SPCH 295 Independent Study in Speech

Prerequisite: Department Approval

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum, Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (F, Sp, Su)

SPEL - Spelling Development

SPEL 150 Spelling: College Prep

Prerequisite: Reading Level 3 and Writing Level 4

Recommended: PHON 108

This eight week course focuses on spelling rules and functions suited to various disciplines within the college and workplace. (F)

STAT - Statistics

STAT 170 Introduction to Statistics

Prerequisite: (MATH 121 2.0 minimum or MATH 126 2.0 minimum or MATH 130 2.0 minimum or Math Level 8) and Reading Level 5 and Writing Level 4

Recommended: Knowledge of Windows Software

This is a survey course in statistics for students in social science, psychology, education, and other nonbusiness disciplines. Topics studied include descriptive statistics, probability, random variables, normal distribution, t distribution, chi-square distribution, F distribution, confidence intervals, hypotheses testing, correlation, and linear regression. In addition, students will solve applied problems by completing required computer assignments using a statistical software package. (F. Sp, Su)

STAT 215 Intro to Probability and Stats

Prerequisite: (MATH 122 2.0 minimum or MATH 126 2.0 minimum or MATH 128 2.0 minimum or MATH 130 2.0 minimum or Math 141 2.0 minimum or Math Level 9) and Reading Level 5 and Writing Level 4

Recommended: Knowledge of Windows Software

This is a first course in probability and statistics with emphasis on business applications. Topics studied include descriptive statistics, laws of probability, random variables, normal distribution, t distribution, chi-square distribution, f distribution, confidence intervals, hypothesis testing, correlation, and linear regression. In addition, students will solve applied problems by completing required computer assignments using a statistical software package. (F, Sp)

STEC - Stage Technology

STEC 100 Intro to Stage Tech Industry

Prerequisite: Department Approval

This course is an introduction to the stage technology industry for apprentices in the Michigan Stage Technician Apprenticeship Program. It presents the history and current status of the various segments of the industry and introduces basic skills, terminology, safety-concerns, and legal issues designed to prepare the apprentice for on-the-job training. (Su)

STEC #10 Stage Tech Field Experience

Prerequisite: Department Approval

Restriction: Stage Technology Majors and MSTAP Apprentices

This course provides Stage Technology majors and MSTAP apprentices with offcampus, on-the-job training opportunities. Students will answer a variety of temporary job calls to support theatrical, arena, conference, sporting, and other events requiring the expertise of stage technicians. The student must be able to travel throughout mid-Michigan and to work odd hours. (F, Sp, Su)

STEC 120 Stage Lighting and Electricity

Prereguisite: None

Beginning studies in basic electricity and lighting as they relate to the stage. Students will learn fundamentals of electricity, metering, dimming circuits, physics of light and optics, instrumentation, reading of a plot, and various schedules. The student will then apply them in a theater setting. (F)

STEC 122 Advanced Stagecraft

Prerequisite: THEA 114 2.0 minimum

Advanced techniques of stagecraft and elements design for the performing arts. Preparation of working drawings and cut lists; fabrication of the design; lighting design techniques and implementation. Application of color theory and textures to scene painting, lighting design, and costuming. Students will assist with set design, lighting, and construction for a theatre production. (Sp) з

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STEC 130 Audio/Visual Technology Prerequisite: None

An introduction to audio/visual equipment, principles and practices used in the stage technology industry with an emphasis on convention and trade show settings. Sound amplification, lighting control systems, simple video camera operation, and various projection devices will be included. (Sp)

STEC 140 Theatrical Make-Up/Wardrobe

Prerequisite: None

Provides students with a working knowledge of basic principles of makeup application, wardrobe maintenance and procedures in a production environment. Prepares students to provide basic makeup and wardrobe services for live performing arts, including the theatrical play and dance productions, musicals and operas. An enrichment resource for community theater and schools. (F)

STEC 150	Stage and Arena Rigging		

Prereguisite: None

Recommended: Basic Algebra

An introduction to rigging for the entertainment industry. The student will learn fundamentals of high steel, deck, grid, and stationary rigging. Rigging safety practices, safety hardware, rigging equipment, rigging hardware, and calculation of loads for the structure and hardware are covered. The student will apply these practices and equipment to stage and arena settings. (Sp)

STEC 290 Guided Independent Study

Prerequisite: Department Approval

Restriction: Stage Technology Majors and MSTAP Apprentices

Recommended: 75% Completion of the Stage Technology Program An opportunity for self-directed learners to explore topics of particular interest more thoroughly. Students will meet intermittently throughout the semester with an assigned faculty member for guidance and evaluation of progress. A proposal

detailing the area of independent investigation must be submitted by the student prior to registration, (F, Sp)

STEC 296 STEC Internship

Prerequisite: Department Approval

Restriction: Stage Technology Majors and MSTAP Apprentices

Recommended: 80% Completion of the Stage Technology program

An off-campus worksite experience that serves as part of a capstone experience for stage technicians. Students will work at venues having a multi-event season and be involved in building, installing, and as members of running crew. Regularly scheduled progress reports will be given and discussed with the supervising faculty member. (F, Sp, Su)

STEC 298 Special Projects

Prerequisite: Department Approval

Restriction: Stage Technology Majors and MSTAP Apprentices

Recommended: 75% Completion of the Stage Technology Program An opportunity for a group of learners to become involved in a common project that will allow each to develop additional skills or to hone present skills. Availability of academically appropriate projects and student interest determines the nature of the experience. (F, Sp)

SURG - Surgical Technology

SURG 100 Fundamental Surgical Tech

Prerequisite: Admission to Surgical Technology Program Co-requisite Course(s): SURG 101 and SURG 121 and SURG 122 Introduction to role and function of the surgical technologist as a member of the surgical team. Lectures present all skills, procedures, and protocol necessary to participate in the operating room. (F)

SURG 101 The Surgical Patient

Prerequisite: Admission to Surgical Technology Program Co-requisite Course(s): SURG 100 and SURG 121 and SURG 122 Lectures will present the protocol and procedures directly affecting the care and safety of the patient. This includes the ethical, legal, and moral responsibilities of the technologist, the concepts of patient care, and preoperative routines. (F)

SURG 103 Surgical Asepsis

Prerequisite: None

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This course defines and describes pathogenic microorganisms and the causes and prevention of infection in the hospital. The student will be introduced to sterilization, disinfection, and other methods of controlling microbial growth. (F)

SURG 104 Operative Procedures

Prerequisite: SURG 100 2.5 minimum and SURG 101 2,5 minimum and SURG 103 2.5 minimum and SURG 122 2.5 minimum

Co-requisite Course(s): SURG 123 and SURG 124 Lectures will present indications for surgery, patient preparation, special equipment and supplies, purpose and expected outcome, and possible complications. (Sp)

SURG 121 Applied Surg Techniques I

Prerequisite: Admission to Surgical Technology Program

Co-requisite Course(s): SURG 100 and SURG 101 This course is a clinical session with an assigned hospital. It covers the application of theory in the use of surgical supplies and equipment which will prepare students to scrub in for actual surgical procedures. (F)

SURG 122 Applied Surg Techniques II

Prerequisite: SURG 121 2.5 minimum or Concurrently Co-requisite Course(s): SURG 100 and SURG 101 This clinical session at a hospital is the student's first experience in application of theory and clinical skills in actual surgical procedures. (F)

SURG 123 Applied Surg Techniques III

Prerequisite: SURG 122 2.5 minimum

Co-requisite Course(s): SURG 104

This clinical session at a hospital provides the student with continued application of theory and clinical skills in advanced surgical procedures. (Sp)

SURG 124 Applied Surg Techniques IV

Prerequisite: SURG 123 2.5 minimum or Concurrently Co-requisite Course(s): SURG 104 Clinical session at hospital. Application of theory and clinical skills in advanced surgical procedures and surgical specialty areas. (Sp)

TDTP - Truck Driver Training Program

TDTP 110 Truck Driver Training I

Prerequisite: Department Approval and Department of Transportation Physical This is the initial course in a sequence of three. This course is intended to begin preparing the student for the State of Michigan CDL written exam and includes a review of D.O.T. rules and proper driver's log book reporting. Vehicle activities include vehicle inspection, drop and hook, and initial driving on secured roadways. (F, Sp, Su)

TDTP 111 Truck Driver Training II

Prerequisite: Department Approval and Department of Transportation Physical This is the second course in a sequence of three. Students will operate the vehicles on the driving range and local roads, developing the skills necessary to interact with highway traffic. Students must pass the CDL written test and obtain their temporary instructional permits during this course. (F, Sp, Su)

TDTP 112 Truck Driver Training III

Prerequisite: Department Approval and Department of Transportation Physical This is the final course in the Truck Driver Training Program. The students will complete range driving and backing, do local highway driving, and complete an extensive road trip. The CDL third-party exam will be administered during this course. (F, Sp, Su)

THEA - Theater

THEA 110 Introduction to Theatre

Prerequisite: Reading Level 5

Introduction to Theatre includes definition and analysis of theatrical art, incorporating script analysis, theatre history, the relationship between theatre and the culture from which it comes, and the roles of theatre practitioners. (F, Sp, Su)

THEA 114 Intro to Technical Theatre

Prerequisite: Department Approval

Restriction: Theatre Majors

Introduction to design stagecraft for performing arts: basic elements of design and their relationship to performance, introduction to color theory - both paint and light, development of design concept, fundamentals of drafting, scale plan analysis, tool useage, shop safety, stage lighting, light plot interpretation, understanding organization of backstage productions. (F, Sp, Su)

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THEA	120	Introduction to Acting	

Prerequisite: None

Explores various acting techniques and introduces the beginning student to the skills necessary to maintain a sustained dramatic performance. Theatre games and improvisation exercises to overcome stage fright and to develop concentration and listening skills are heavily emphasized. Students present final short scene: (F, Sp, Su)

THEA 131 Studio Theatre Performance I

Prerequisite: Theatre Studio Interview

Restriction: Theatre Majors

Co-requisite Course(s): THEA 141 and THEA 171

Course includes rehearsal, performance, and evaluation of a contemporary script. Focus is on an understanding and implementation of skills acquired in THEA 141 and the relationships experienced between actor and director. (F, Sp)

THEA 132 Studio Theatre Performance II

Prerequisite: THEA 131 2.0 minimum

Restriction: Theatre Majors

Co-requisite Course(s): THEA 143 and THEA 173 and THEA 181 Course includes rehearsal, performance, and evaluation of verse script or scenes from Shakespeare or the classical Greeks. Focus on application of skills acquired in THEA 142, and on relationship between actor and director. Majors only (Sp, Su)

THEA 140 Acting for Non-Majors

Prerequisite: THEA 120 2.0 minimum or Concurrently

Restriction: Theatre Non-majors Recommended: THEA 110

Fundamentals of acting, including improvisational techniques; mask work; the physical, vocal, and internal development of character; analysis and scoring by beats of a contemporary script. Non-majors only. (F, Sp)

THEA 141 Acting I - Contemporery

Prerequisite: Theatre Studio Interview

Restriction: Theatre Majors

Co-requisite Course(s): THEA 131 and THEA 171 Fundamentals of acting, including improvisational techniques; mask work; the physical, vocal, and internal development of character; analysis and scoring by beats of a contemporary script. Majors only. (F)

THEA 143 Stage Voice for the Actor

Prerequisite: THEA 141 2.0 minimum

Restriction: Theatre Majors

Co-requisite Course(s): THEA 132 and THEA 173 and THEA 181 Course will cover strategies in vocal production and variety; will focus on exercises to develop vocal flexibility from Lessac, Linklater, and/or Berry techniques; and will experience vocal techniques which lead to greater emotional awareness and responsiveness. For second-year theater majors. (Sp, Su)

THEA 150 Acting for the Camera

Prerequisite: THEA 120 2.0 minimum

Recommended: THEA 110

Acting techniques and methods relevant to camera work will be explored. Student work is videotaped and critiqued. Acting for the Camera applies and builds on fundamentals established in Introduction to Acting (F, Sp)

THEA 160 Stage Combat

Prerequisite: None

Recommended: THEA 120

Students learn to use a variety of weapons and hand to hand combat styles on stage. Students learn the style of combat used in theatre/film industry. Students explore fight scenes, basics of mechanics of choreographing fight scenes, and are instructed on basic safety procedures for choreographing/executing fight sequences. (F, Sp, Su)

THEA 171 Dramatic Form and Function I

Prerequisite: Theatre Studio Interview

Restriction: Theatre Majors

Co-requisite Course(s): THEA 131 and THEA 141.

An analysis of modern contemporary classics of the theatre. The student will read and analyze a minimum of eight contemporary scripts from Ibsen to Shepard. The student will develop a comprehensive production concept for one of these scripts. (F Sp)

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THEA 173 Movement for the Actor

Prereguisite: THEA 141 2.0 minimum

Restriction: Theatre Majors

Co-requisite Course(s): THEA 132 and THEA 143 and THEA 181 Course will cover strategies developing student's physical endurance, reflect, flexibility, and grace. Students will learn the human inner experience in the sphere of human silence. Students may explore movement to music, mime, and/or dance styles and techniques from world cultures. For second-year theatre majors. (Sp,

THEA 181 Improvisation

Prerequisite: THEA 141 2.0 minimum

Restriction: Theatre Majors

Co-requisite Course(s): THEA 132 and THEA 143 and THEA 173 By using the improvisational techniques of mask work and developmental exercises, this course will train the student in long-term, in-depth character development. (Sp, Su)

THEA 210 Theatre History

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: THEA 110

Examination of the history of drama from primitive times to the present, introducing the overall pattern of theatre history with emphasis on European and American development. Required for all majors. (F, Sp)

THEA 220 Play Directing

Prerequisite: THEA 110 2.0 minimum or FILM 118 2.0 minimum

Recommended: THEA 120 or THEA 210 Introduction to the fundamentals of directing a play, including play analysis, stage composition and working with actors. Practical experience through scenework and class exercises will be emphasized. Students will demonstrate their mastery of the principles taught by directing and presenting a short one-act play for an audience.

THEA 223 Independent Study in Theater

Prerequisite: Department Approval

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by; the Department and supervising instructor prior to registration. (F, Sp, Su)

THEA 224 Special Subjects in Theatre

Prerequisite: Department Approval Seminar: Special Subjects in Theater is offered each summer and allows students to take a variety of short-term courses in various theater techniques. The seminar will offer either state-of-the-art techniques or an opportunity to work with professionals. Seminars may include: stage combat, playwriting, new techniques in actina. (Su)

THEA 233 Studio Theatre Performance III

Prerequisite: THEA 132 2.0 minimum.

Restriction: Theatre Majors

Co-requisite Course(s): THEA 240 and THEA 260 Studio Theatre Performance III provides rehearsal and performance opportunities in oral interpretation and/or readers theatre presentations. Usually offered in eightweek format. Second-year theatre majors only. (F)

THEA 235 Studio Theatre Performance IV

Prerequisite: THEA 233 2.0 minimum

Restriction: Theatre Majors

Co-requisite Course(s): THEA 241 and THEA 271 and THEA 283 This course provides the second-year Theatre major with an opportunity to intensively explore two contrasting theatrical periods and styles through the rehearsal and performance of monologues, scenes, or short plays. (Sp)

THEA 237 Theatre Special Projects

Prerequisite: Department Approval

Student will be given the opportunity to direct, design, perform, or produce productions for College functions on the main stage or comparable space. Limited to individuals who have been selected as cast members or technical or design staff in a scheduled LCC performance. (F)

THEA 238 Theatre Company

Prerequisite: Theatre Application Process Students will be given the opportunity to direct, design, produce, or perform in-College-supported outdoor theatrical events in the amphitheatre or a comparable space. Students will also participate in company class, in which new ideas in acting training will be presented. (Su)

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THEA 240 Acting II - Classics 2.5	TRVL 135 Airline/Airport Operations 3
Prerequisite: THEA 143 2.0 minimum (previously 251)	Prerequisite: None
Restriction: Theatre Majors	Recommended: Minimum 2.0 in HMFS 101 or TRVL 150
Co-requisite Course(s): THEA 233 and THEA 260	This course provides an introduction to the responsibilities of alrline and airport
Fundamentals of acting in heightened context. Students will pursue improvisa- tional work, mask work, and scoring. Students will develop an understanding of the	personnel as well as the functions of an airport and airline carriers. Discussion includes ticket counter operations, the gate area, cargo handling and loading, air-
power of language through verse scansion and the physical, vocal, and internal development of characters from classical literature. Majors only, (F)	craft weight, and the principles of aeronautics. (Sp)
THEA 241 Acting III: Acting Styles 2.5	TRVL 140 Airline Computer Reservation I 3
Prerequisite: THEA 240.2.0 minimum (previously THEA 142)	Prerequisite: None Recommended: TRVL 100 and Typing 30 wpm
Restriction: Theatre Majors	The first of a three-course sequence utilizing the Worldspan reservation system.
Co-requisite Course(s): THEA 235 and THEA 271 and THEA 283 Explores acting techniques and styles of different historical periods and/or cul-	Hands-on application in the Travel Computer Lab gives students the skills required for creating airline computer reservation as well as airfare and fare rules. (F, Sp)
tures. Student will survey a cross-section of acting styles and periods then focus on in-depth exploration of particular period or style. Class limited to second-year	TRVL 145 Intro Cruise Sales/Ground Tran 3
majors. In-depth area of study selected by instructor. (Sp)	Prerequisite: None
THEA 260 Dramatic Form and Function II 3	Recommended: Minimum 2.0 in HMFS 101 or TRVL 150
Prerequisite: THEA 143 2.0 minimum (previously THEA 251)	This course explores the travel industry by developing an understanding of the ref-
Restriction: Theatre Majors Co-requisite Course(s): THEA 233 and THEA 240	erence materials used to market cruises, railroads, car rentals, and motor coach travel for domestic and international destinations. (Sp)
Dramatic Form and Function II focuses on the writings of Shakespeare and the	
classical Greeks. The student will read a minimum of eight classical scripts, ana-	TRVL 170 Owning/Managing TrvI Agency 3
lyze them using Aristotelian analysis, and research one script in terms of produc- tion styles through history. (F)	Prerequisite: None Recommended: Minimum 2.0 in TRVL 100 and TRVL 140
	Learn how to open or acquire a travel agency. Includes an examination of co-ops,
THEA 271 Dramatic Form and Function III 3	consortiums, and franchise options, as well as an overview for managing daily
Prerequisite: THEA 260 2.0 minimum (previously THEA 172) Restriction: Theatre Majors	operations. (F)
Co-requisite Course(s): THEA 235 and THEA 241 and THEA 283	TRVL 190 Internship 2
Students will study 5-8 texts of various periods and styles of western dramatic lit- erature in terms of their historical context and as an aesthetic approach. The class	Prerequisite: Department Approval
will culminate in the performance, by each student, of a monologue, scene or short	Recommended: Have completed a minimum of 30 credits Available to students who would like practical work experience in tourism or travel
play of at least two contrasting periods or styles. (Sp)	agency operations. A term project is required. (Sp, Su)
THEA 283 Audition Workshop 1	TRVL 200 Sales/Mktg for Travel/Tourism 3
Prerequisite: THEA 240 2.0 minimum (previously THEA 142)	Prerequisite: None
Restriction: Theatre Majors Students will learn audition and resume preparation and will prepare and polish	Recommended: Minimum 2.0 in HMFS 101 or TRVL 150
two contrasting monologues for auditions. Students will learn the audition and	This course develops an understanding of marketing strategies by identifying
application processes for advanced training. (Sp)	client needs, product, price, and promotion. It develops professional sales skills, as well as examines and develops advertising pieces. (F)
THEA 285 Stage Makeup 2	TRVL 210 Group Travel/Escorting Ops 4
Prerequisite: None	Prerequisite: None
A course in the application of stage makeup to develop a character and to assist the actor in sustaining the character in performance. Emphasizes skills in the use	Recommended: Minimum 2.0 in TRVL 145 and (HMFS 101 or TRVL 150)
of different kinds of makeup, hairstyling, and appearance changes. (Sp)	Learn how to organize and escort both domestic and international group tours.
TRVL - Travel and Tourism	Includes procedures for locating the group, assembling and marketing the tour package, and effectively conducting the tour. (Sp)
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TRVL 100 Travel Agency Operations 3	TRVL 230 Travel/Tourism Law 3
Prerequisite: Reading Level 3	Prerequisite: None Recommended: Minimum 2.0 in (TRVL 100 or TRVL 135 or TRVL 210) and
In this course students will gain a working knowledge of the reference materials used in the travel industry, as well as industry terminology and overall travel	(HMFS 101 or TRVL 150)
agency operations. (F, Sp. Su)	This course includes current topics as well as pending laws and discussion of the
TRVL 125 Destinations 1 3	consequences that result in violating the law for different segments of industry. Students will become aware of the responsibilities and rights that the law imposes
Prereguisite: None	on the travel industry. (Sp)
Examine geography fundamentals as they affect tourism. Emphasis is on travel destinations in North. Central and South Americas with apositis Information rela	TRVL 250 Airline Comptr Reservation II 3
destinations in North, Central, and South Americas with specific information rela- tive to client appeal. (F)	Prerequisite: TRVL 140 2.0 minimum
	The second of a three course series utilizing the Worldspan system which pro-
TRVL 130 Destinations II 3 Prerequisite: None	gresses to in-depth fare research and application, as well as fare rules, and hotel/car reservations for domestic and international travel. (F, Sp)
Examine geography fundamentals as they affect tourism. Emphasis is on travel	
destinations in Europe, Africa, and the Middle East with specific information rela- tive to client appeal. (Sp)	TRVL 260 Travel Agency Accounting 2 Prerequisite: None
	Recommended: TRVL 100 2.0 minimum
TRVL 131 Destinations III 3	This course is designed to explain and describe basic travel agency accounting
Prerequisite: None Examine geography fundamentals as they affect tourism. Emphasis is on travel	concepts. Approximately one-half of the course will be dedicated to the compila- tion and interpretation of financial statements. The other half of the course will
destinations in Asia and the Far East (including the Philippines, Japan, Australia,	cover how accounting systems should be constructed for the travel agency busi-
New Zealand and Oceana) relative to client appeal. (F)	ness. (Sp)
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Prerequisite: TRVL 250 2.0 minimum

Recommended: Minimum 2.0 in HMFS 101 and TRVL 145 and TRVL 210 and **TRVL 230**

In this course students will learn how to manage the many issues surrounding business/corporate travel. Special requests, International reservations, fare rulings and routings, currency exchange, internet research, and frequent flyer program management for business/corporate travelers, as well as the customs, cultures, and protocol in International travel are emphasized. In addition, extended use of the Sabre computer reservation system is utilized. (F, Sp)

TRVL 275 Travel Industry Practicum

Prerequisite: TRVL 265 2.0 minimum and CABS 110 2.0 minimum

In a worksite setting students will combine and analyze day-to-day industry challenges faced by travel associates and the travel industry. They will design, organize and present travel recommendations to potential clients through the coordination of information using the Internet, Microsoft Office, and Worldspan. Techniques for problem-solving, needs assessment, and industry analysis will be included, (F. Sp)

VCBL - Vocabulary Improvement

VCBL 150 Vocabulary: College Prep

Prerequisite: Reading Level 3 and Writing Level 4

Recommended: PHON 108

This eight week course focuses on the acquisition of vocabulary appropriate to the various disciplines within the college and workplace. (F, Sp)

VIET - Vietnamese

VIET 121 Elementary Vietnamese I

Prerequisite: Reading Level 5 This course is designed for students with little or no knowledge of Vietnamese. Students will acquire elementary reading, writing, speaking and listening skills, with particular emphasis given to tones and pronunciation. Cultural and traditional aspects will underlie every phase of learning. (F)

WELD - Welding Technology

WELD 100 Combination Welding

Prerequisite: None

This is a beginning theory and practice course which will introduce the safe operations and applications of oxyacetylene welding, cutting, brazing and shielded metal arc welding. Practice will consist of these methods of joining steal in the horizontal, flat and vertical positions. Destructive testing will also be provided. (F, Sp, -Su)

WELD 101 Advanced ARC Welding

Prerequisite: WELD 100 1.5 minimum

Students will develop the skills necessary to produce quality multiple pass fillet and groove welds on steel plates. Conventional and low hydrogen electrodes are used in preparation of passing performance tests in all positions. Destructive testing methods, weld profiles and welding symbols as related to arc welding are introduced. (F, Sp, Su)

WELD 110 Gas Metal ARC Welding

Prerequisite: WELD 100 1.5 minimum

Provides technical understanding and applications of gas metal arc welding and flux cored arc welding. Fundamentals, safety, equipment adjustments, metal transfers and shielding gases will be covered. Develops manual skill in all positions on different thicknesses and types of metals, including mild steel, aluminum and stainless steel. (F, Sp, Su)

WELD 111 Gas Tungsten ARC Welding

Prerequisite: WELD 100 1.5 minimum

Students will develop the skills, principles and applications of gas tungsten arc welding and plasma arc welding. Welds will be done on different thickness of ferrous and non-ferrous metals in all positions. Proper material cleaning, fit up and safety are also introduced. (F, Sp, Su)

WELD 120 Struct Fabrication/Inspec

Prerequisite: WELD 101 1.5 minimum Introduction to steel fabrication in accordance with the American Welding Society Structural Welding Code D1.1 applications and requirements. The student will be introduced to the numerous destructive and nondestructive methods of welding inspections. Satisfactory completion of this course will assist the student in passing a welding certification test. (F, Sp)

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WELD 125 Struct Blueprint Reading Weld

Prerequisite: MATH 050 1.0 minimum or Math Level 4 Blueprint and welding symbols are the universal language of the welding industry. This course is for students, apprentices, technicians and others who must develop the ability to read and accurately interpret blueprints. Teaches awareness of the advancement in metallurgy, welding processes, consumables and strict code enforcement used in industry today. (F)

WELD 140 Creative Welding

Prerequisite: None

Recommended: Course work or experience in art/design

This is a course for people with an interest in artwork in a metal medium. Participants will become familiar with welding and cutting processes for the purpose of exploring creative expression. (F, Sp)

WELD 201 Tool and Die Welding

Prerequisite: WELD 101 1.5 minimum and WELD 111 1.5 minimum

Theory and practice methods involved in welding various alloyed metals, preheating and postheating of metals, recognition of materials, alloying elements and their effects. The proper usage of air, oil and water hardening steels will also be covered. (F. Sp)

WELD 205 Pipe Welding

Prerequisite: WELD 101 1.5 minimum

Theory, cutting, fit up and practice on different sizes of pipe using shielded metal arc welding. Varied weld and base metal testing methods are used to the strict code requirements. Focus on low hydrogen type electrodes in groove and fillet welds in the 2G, 5G, and 6G positions. (F)

WELD 210 Aircraft Welding

Prerequisite: Department Approval

Presents welding applications and methods used in repairs and inspection of aircraft structures in accordance with approved aviation maintenance techniques. (F. Sp)

WELD 250 Welding Internship

Prerequisite: Department Approval

Recommended: 2.5 GPA or greater

This course provides welding students with practical work experience in industry. Students work for an employer in a supervised environment which provides an opportunity to apply knowledge and skills learned in the classroom and lab to an actual job situation. (F, Sp)

WAIT - Writing

WRIT 100 Writing Laboratory

Prerequisite: Reading Level 1 and Writing Level 1 Designed to teach fundamental writing skills and to introduce the student to the writing process. Emphasizes sentence structure, components of a paragraph, and critical reading with written response, latended for students whose writing skills lie within the WRIT Level 1 score range on the College Placement Test. (F, Sp; Su)

WRIT 110 Confidence in Writing

Prerequisite: Reading Level 2 and Writing Level 2

Recommended: Minimal Typing Skills Desirable

Designed to help students understand the writing process, reduce writing anxiety. and develop basic writing skills. Emphasizes planning, composing, and revising strategies for experiential writing. Provides frequent writing practice in a supportive workshop environment. Students who earn exit competency of 2.5 will have a writing skill level of 4. (F. Sp, Su)

WRIT 114 Business English

Prerequisite: Reading Level 3 and Writing Level 4

This course is designed to review all parts of grammar, punctuation, and sentence structure. Special emphasis will be given to rules covering proper usage of punctuation, capitalization, possessives, number usage, plurals, and mechanics for written business communication. Business English is required for machine transcription and recommended for business writing. (F, Sp, Su)

WRIT 117 Writing Preparation

Prerequisite: Reading Level 3 and Writing Level 4

Recommended: Minimal Typing Skills Desirable

Dasigned to help students improve their writing in preparation for transfer-level academic courses. Students who earn exit competency of 2.5 will have a writing skill level of 6. (F, Sp, Su)

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Prerequisite: None

Explores the various forms of personal writing (diaries, journals, letters, personal narratives, and autobiography) through written exercises and selected readings. The student's observations and lite experiences are the locus of written assignments. Emphasizes language, style, and tone appropriate to the different forms of personal writing. (F. Sp)

WRIT 119 Writing Skills Review

Prerequisite: Reading Level 5 and Writing Level 6

Designed to help WRIT 121-122 composition students, and others, improve their basic sentence and mechanics skills by providing intensive writing and editing practice in a workshop setting. (F. Sp. Su)

WRIT 121 Composition I

Prerequisite: Reading Level 5 and Writing Level 6

Composition I is the study and practice of expository discourse to help students write more effectively. It emphasizes writing process, critical thinking, content development, organization, and style. Students will select their best work for their portfolio, which will be externally assessed, (F, Sp. Su)

WRIT 122 Composition II

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 8)

Builds upon the writing skills developed in WRIT 121 to help students write aroumentative essays which use logical support and appropriate documentation. Emphasizes research techniques and use of sources, and the development, structure, and style of the research paper. Some sections use computer classrooms. Others are offered over the Internet or interactive television. (F. Sp. Su)

WRIT 124 Technical Writing

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: Computer and/or Keyboarding Experience A college-level course in the study and practice of technical writing in a variety of formats for select audiences. Covers writing business letters, short reports and memos, formal reports, instructions and definitions, and job application letters and resumes. Students learn basic research techniques. Students will work individually and collaboratively. (E. Sp. Su)

WRIT 127 Business Writing

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: Computer and/or Keyboarding Experience

College-level study of the theory and practice of business communication in a variety of forms, with emphasis on letters, memoranda and written reports, including research-based reports. Also covers job applications, resumes, and collaborative oral reports. (F. Sp. Su)

WRIT 131 Honors Composition I 4

Prerequisite: Writing Level 7

Honors Composition I is the study and practice of expository discourse to help students write more effectively. It emphasizes writing process, critical thinking. content development, organization, and style. Students will select their best work for their portfolio, which will be externally assessed. (F, Sp)

WRIT 132 Honors Composition II

Prerequisite: WRIT 121 3.5 minimum or WRIT 131 3.5 minimum Builds upon the writing skills developed in WRIT 121 to help students write argumentative essays which use logical support and appropriate documentation. Emphasizes research techniques and use of sources, and the development, structure, and style of the research paper. Some sections use computer classrooms

Others are offered over the Internet or Interactive television. (F, Sp)

WRIT 260 Creative Writing !

Prerequisite: None

Recommended: WRIT 121

This course is designed to help students develop expressive abilities in writing poetry and short stories. Emphasizes narrative modes of the short story, and free verse forms and traditional forms of poetry. Students read and analyze models from masters in flotion and poetry. (E. Sp)

WRIT 264 Writing for Publication

Prerequisite: None

Recommended: WRIT 121

Study of freelance writing and marketing, with locus on nonflotion, Students review a variety of effective writing techniques, study marketing information for their particular fields such as analyses of potential publishers and query letters, and discuss their writing in a workshop setting. Students prepare manuscripts for submission to editors. Word processing available. (F. Sp. Su)

WRIT 270 Creative Writing

WRIT 118 - WRTR 103

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Prerequisite: WRIT 260 2.0 minimum (previously WRIT 285) or Department Approval

Emphasizes improving the ability to write effective poems, short stories, and novellas. Students select their own subjects and receive immediate responses through group discussion. (F, Sp)

WRIT 278 Writing the Novel

Prerequisite: WRIT 260 2.0 minimum (previously WRIT 285) or WRIT 264 2.0 minimum (previously WRIT 281)

This course addresses all aspects of writing a novel. Classroom sessions will emphasize finding a narrative voice, establishing sturdy characters, and developing a workable plot. Students will receive feedback on their fiction in a workshop setting. Publishing information will be provided, but will not be a focus of the course. (F)

WRIT 279 Prose Style

Prerequisite: None

Recommended: WRIT 121

An advanced study of non-fictional prose writing. Extensive directed practice helps experienced writers make their own writing clear, precise, direct, and graceful Workshop sessions include a study of the expectations and choices in various types of writing, and of the relationships among purpose, structure, words, sentences, grammar, punctuation, and style. (Sp)

WRIT 280 Creative Writing III

Prerequisite: WRIT 270 2.0 minimum (previously WRIT 286) or Department Approval

Examines language and style as the most critical choices a creative writer makes in directing the reader's perception of and response to the work. Develops the writer's ability to control tone and style. Manuscripts will be reproduced and discussed in a workshop setting. (Sp)

WRIT 282 Forum for Authors

Prerequisite: WRIT 264 2.0 minimum (previously WRIT 281) or WRIT 270 2.0 minimum (previously WRIT 286) or Authors' Writing Test

An advanced course in freelance writing for authors working on manuscripts. Students meet in a workshop setting to refine ideas, critique writing, solve problems, and develop material for submission to penodical or book editors. Includes advanced study of effective writing techniques and market information. Occasional speakers. Word processing available. (F. Sp)

WRIT 295 Independent Study in Writing

Prerequisite: Department Approval

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supprvising instructor prior to registration. (F. Sp. Su)

WRTR - Writing: Restricted

WRTR 101 Writing Practice I

Prerequisite: Reading Level 1 and Writing Level 1 and Department Approval May be taken concurrently with other writing courses to provide extra individualized instruction and practice. (May repeat for oredit three times.) (F. Sp. Su)

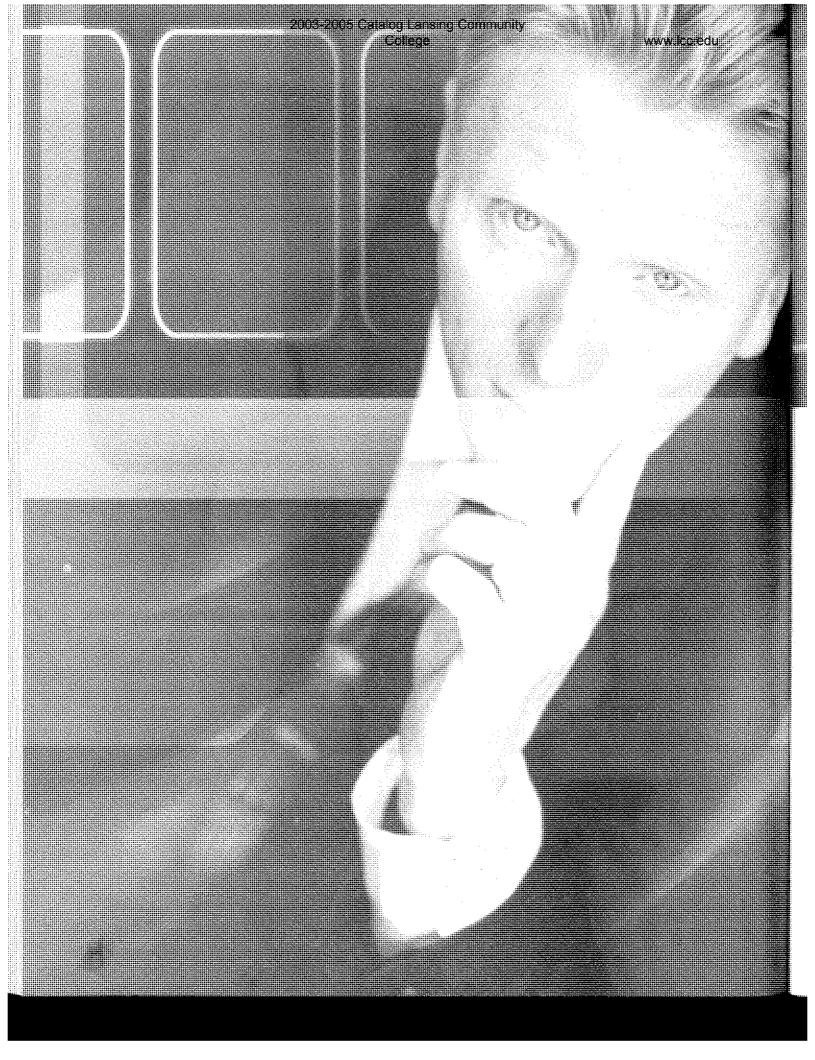
WRTR 102 Writing Practice

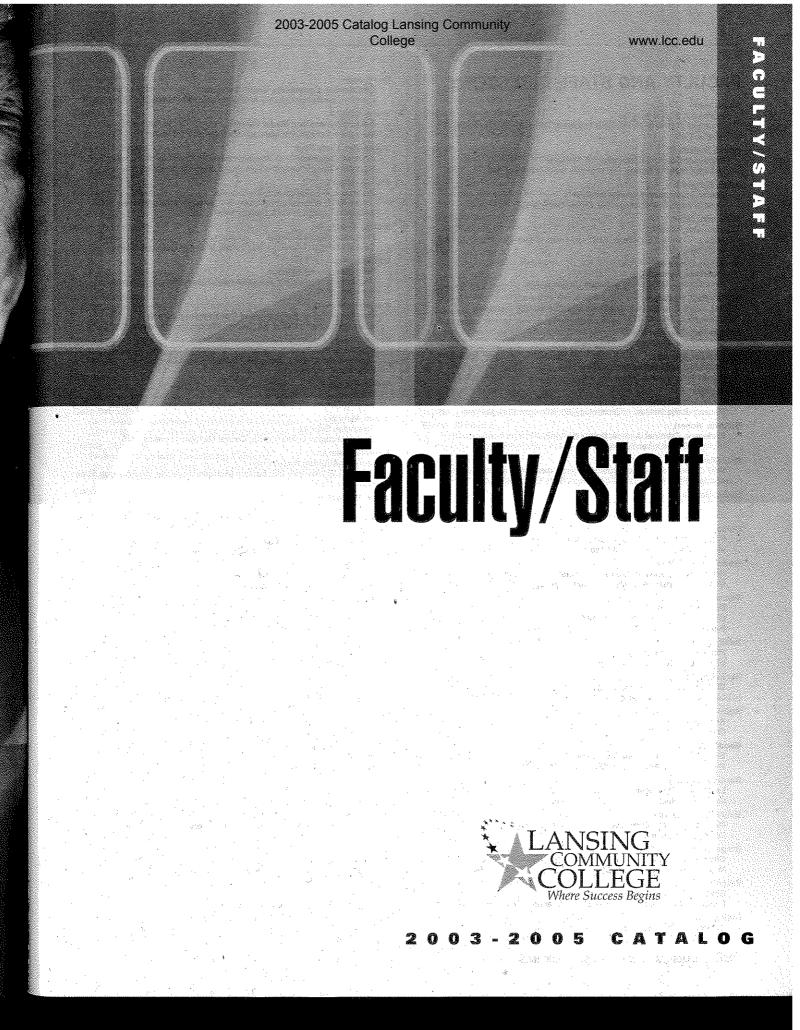
Prerequisite: Reading Level 1 and Writing Level 1 and Department Approval May be taken concurrently with other writing courses to provide extra individual ized instruction and practice. (May repeat for credit three times.) (F. Sp. Su)

WRTR 103 Writing Practice III

Prerequisite: Reading Level 1 and Writing Level 1 and Department Approval May be taken concurrently with other writing courses to provide extra individualized instruction and practice. (May repeat for credit three times.) (F, Sp. Su)

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FACULTY AND STAFF DIRECTORY

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Professor, Social Science University of Ghana, BA: Queens University (Ontario), MA: University of Alberta PhD Alfaro, Bodelio B Professor-Counselor, Counseling Services Michigan State University. BA; Michigan State University, MA Allen, Richard L Senior Application Systems Analyst Lansing Community College, AB; Cleary College, BA Anderson, Janet Instructor, Nursing Jackson Community College, AND; University of Michigan; BSN; University of Michigan. MSN Anderson, Susan M Professor. Science Alma College, BS: Central Michigan University, MS Appiah-Padi, Radecka PAL Grant Coordinator, Business and Community Institute University of Alberta, MS Appiah-Padi, Stephen Kodjo Coordinator, Multicultural Programs Argersinger, Marvin L Professor, Automotive Technology Denver Automotive & Diesel Col. AS Azima, Alex Professor, Science Massachusetts Institute of Technology, BS: Michigan State University, MS Baldwin, Robert Professor, Criminal Justice, Public Service Michigan State University. BA Ball, Michael B Skill Center Coordinator, Business and Community Institute Michigan State University, MA: Michigan State University, PhD Barks, Betty L Professor, Mathematical Skills Michigan State University, BS Barks, Kay E Professor, Mathematics and Computer Science Michigan State University, BS: Michigan State University, MS Baumann, Barbara M Northern Region Coordinator, Extension and Community Education Eastern Michigan University, BS; Eastern Michigan University, MA Beard, Rebecca G Director, Purchasing Comm College of the Air Force. AAS: Davenport University - Lansing, BBA; Baker College - Flint. MBA Beck, Stephen Professor, Photography University Of New Hampshire, BA Beckwith, Denice Director, Operations and Budget Lansing Community College, AS Bell, Vanessa Assistant Director, Enrollment Services Detroit College Of Business, BBA Bender, James A Electronic Campus Manager, Human, Health & Public Service Careers Western Michigan University, BS: Western Michigan University, MPA Bender, Kathleen A Laboratory Technician, Computer-Aided Drafting and Design Lansing Community College, AS: Siena Heights University, BA Bennett, Christopher Director, Network Operations and Communications Lansing Community College, AB Bergeron, Jack Chairperson, Visual Arts and Media Michigan State University. BFA: Central Michigan University, MA Bergeron, Pamela Director, Employee Relations, Human Resources Ferris State University, AA: Ferris State University, BS; Aquinas College, MA Berke, Kay Connie Director, Assessment Services University Of Michigan, BA; University Of Michigan, MA

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Director of Student Judicial Affairs, Student and Academic Support Bowie State University, BS: Michigan State University, MA

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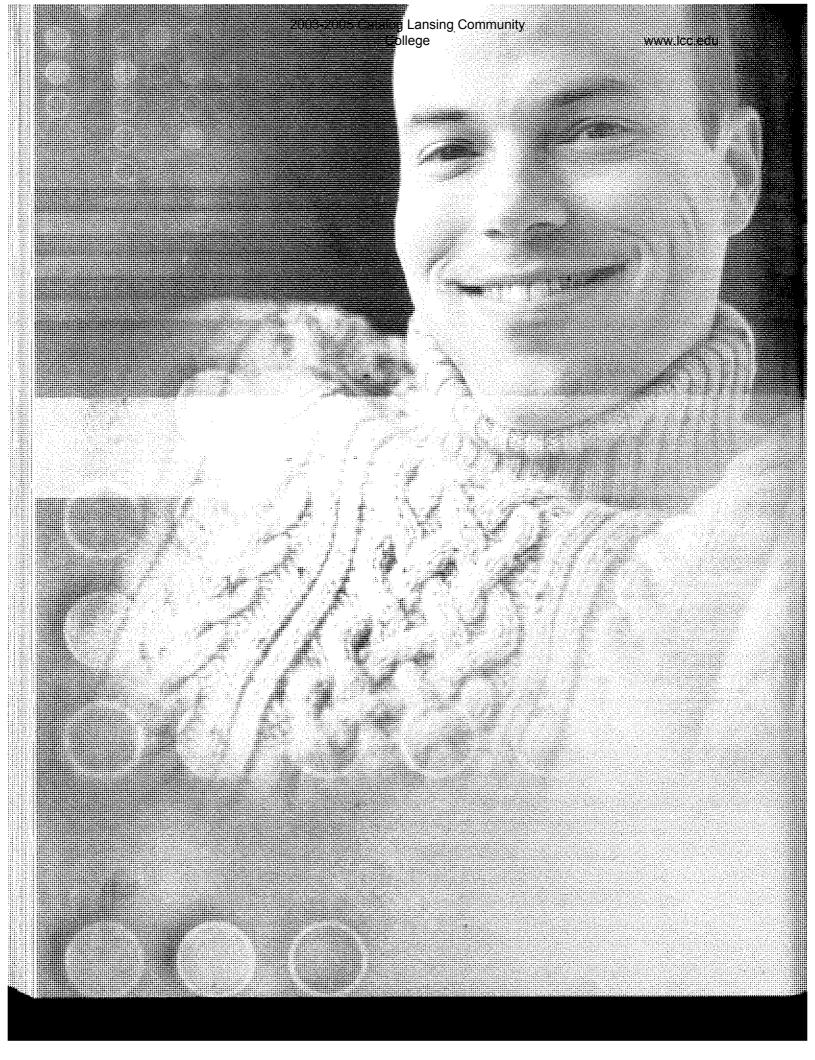
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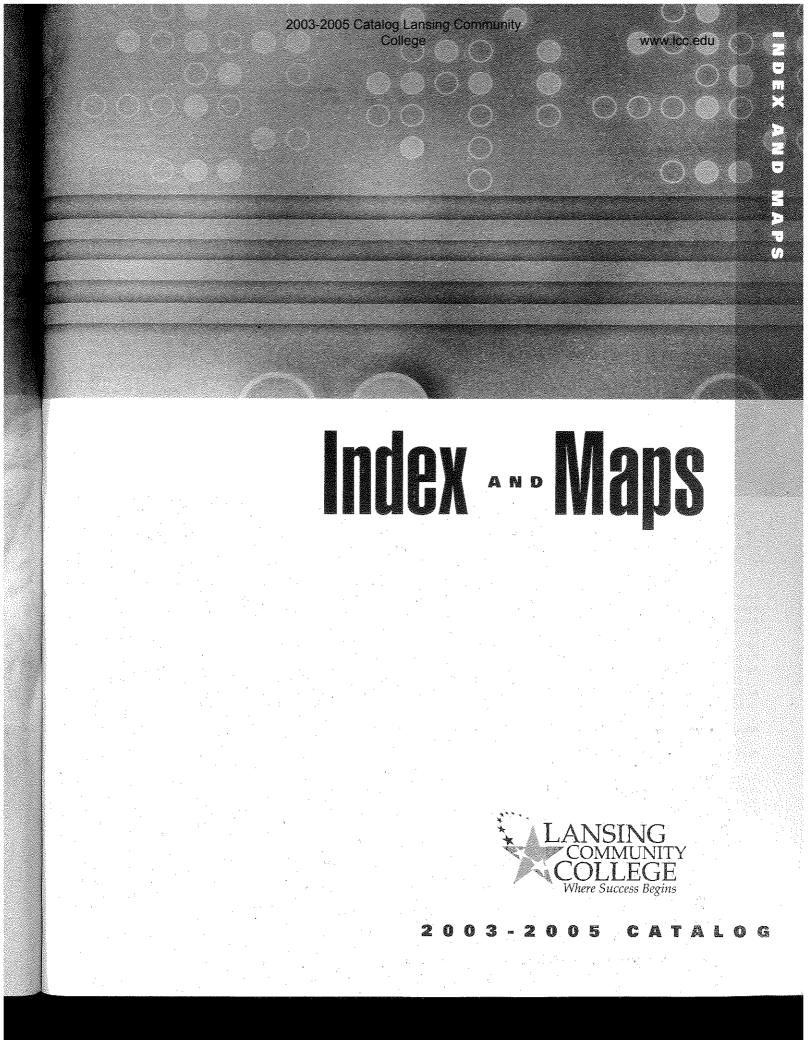
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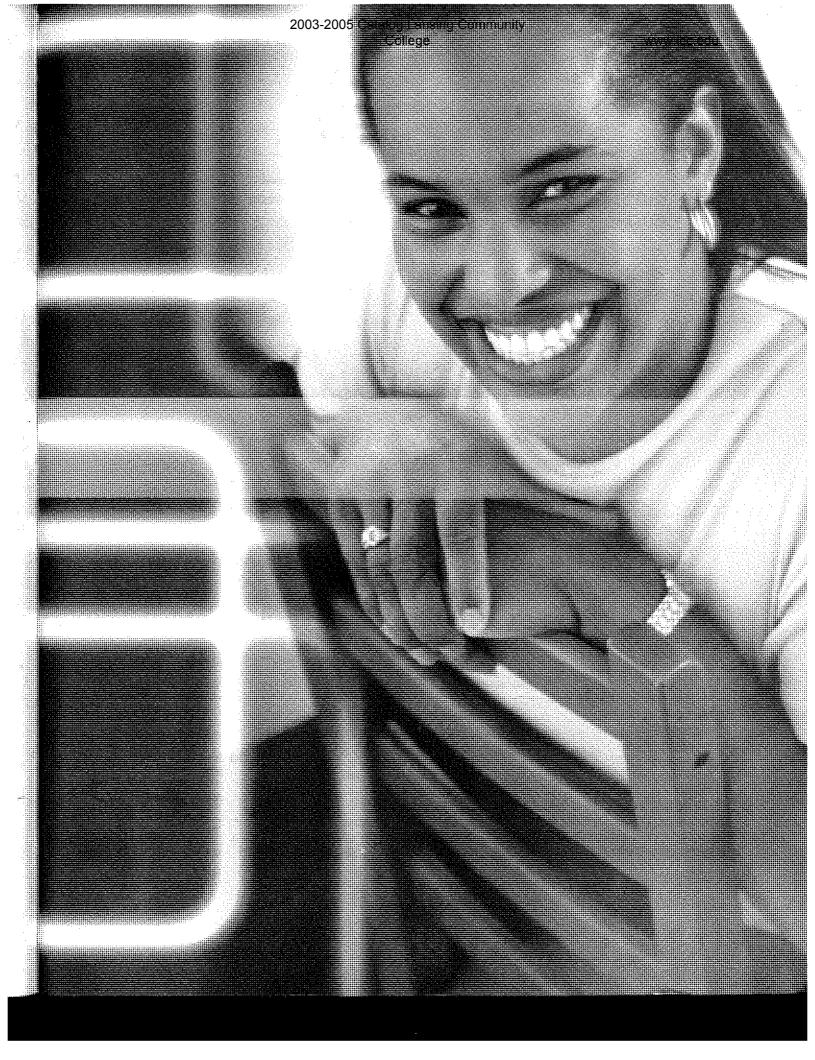
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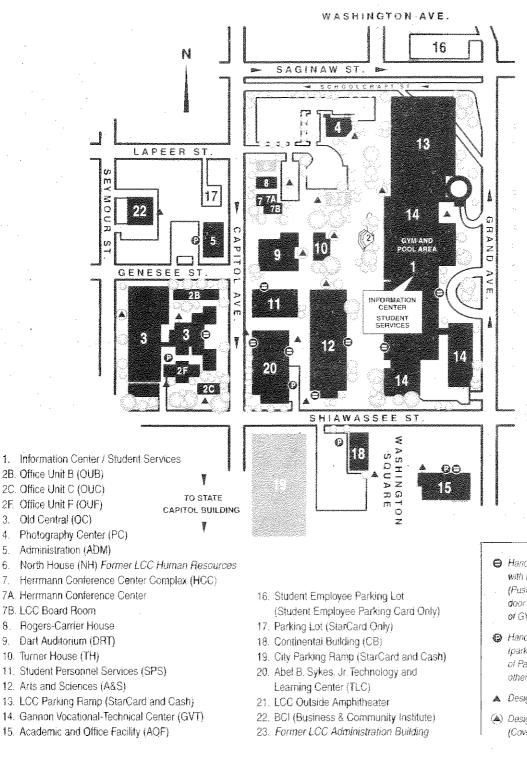
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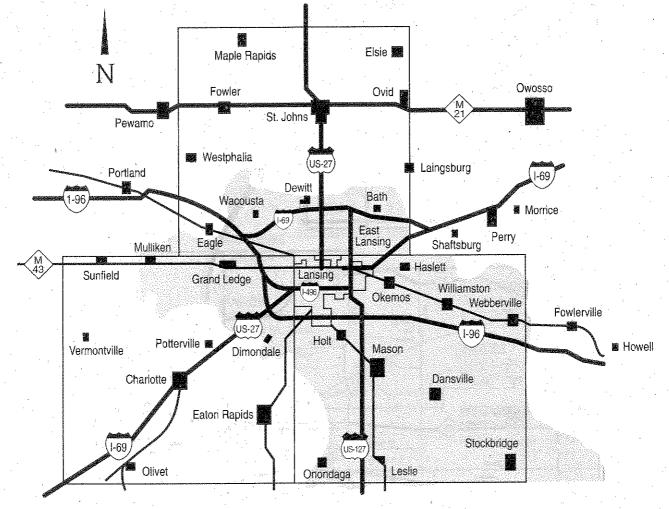
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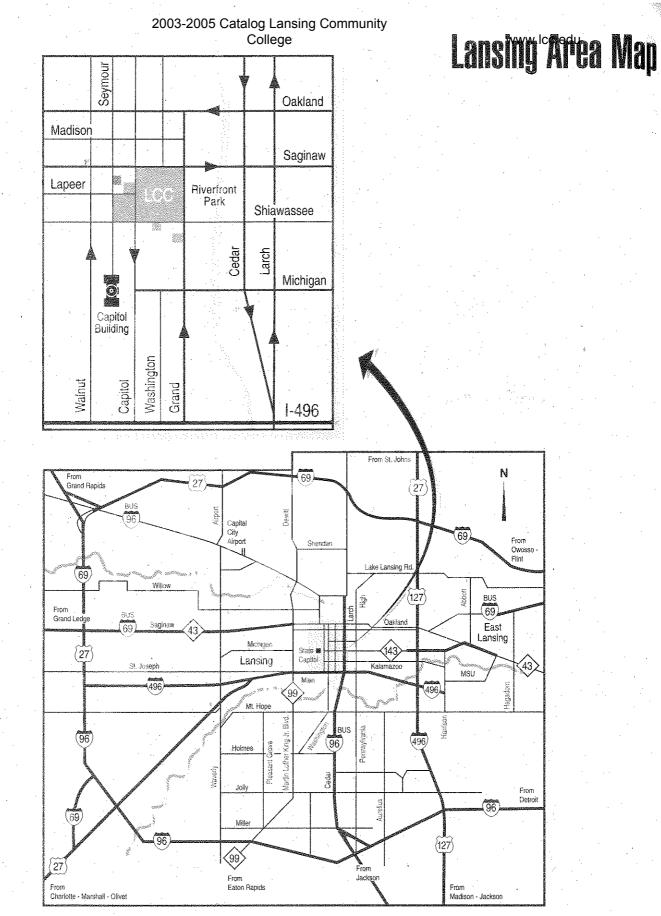
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- Handicapper Entrances with Electronic Doors (Push-button electronic
- door at 2nd floor entrance of GVT from parking ramp
- Handicapper Parking (parking on 2nd floor of Parking Ramp and other marked spaces)
- ▲ Designated Smoking Area
- (Designated Smoking Area (Covered Area)

Service Area Map



The following School Districts constitute the LCC Resident District: Bath, Dansville, DeWitt, East Lansing, Grand Ledge, Haslett, Holt, Lansing, Leslie, Mason, Okemos, Stockbridge, Waverly, Webberville and Williamston.



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Learning Centers Locations and Building Codes

CHARLOTTE (CHS)-Charlotte High School 378 State St., Charlotte

CORUNNA

(CORNHS)-Corunna High School 417 E. King St., Corunna

DANSVILLE (DNSVLE)-Dansville High School 1264 E. Adams, Dansville

DEWITT (DEWTHS)-Dewitt High School 3100 W. Clark Rd., Dewitt

OIMONDALE (SUMMIT)-The Summit 9410 Davis Hwy., Dimondale

EAST LANSING (ELHAN)-East Lansing Hannah Center 819 Abbott Rd., East Lansing

FOWLERVILLE (FWLRVL) Fowlerville High School 7677 Sharp Rd., Fowlerville

GRAND LEDGE (GLSAWD)-Grand Ledge Sawdon 220 Lamson St., Grand Ledge

HASLETT (HASLCE)-Haslett Community Education 1590 Franklin St., Haslett

HOLT

(HOLTHS)-Holt High School

(Old high school beginning Fall 2003) 1784 N. Aurelius Rd., Holt

(HOLT)-Holt Junior High School (Called North Campus beginning Fall 2003) 5780 W. Holt Rd., Holt

(HORIZN)-Horizon Elementary School 5776 W. Holt Rd., Holt

HOWELL (HWLHS)-Howell High School

1200 W. Grand River, Howell

(LIVCEN)-Livingston County Center 1600 Pinckney Rd., Howell

LAINGSBURG

(LGSBHS)-Laingsburg High School 8008 Woodbury Rd., Laingsburg

LANSING (HHIL)-Harry Hill Vocational School 5815 Wise Rd., Lansing

(STAR)-STAR Institute 5815 Wise Rd., Lansing

(LCATHC)-Lansing Catholic Central 501 Marshall St., Lansing

MASON

(CACC)-Capitol Area Career Center 611 Hagadorn Rd., Mason

(HRTWD)-Heartwood School 625 Hagadom Rd., Mason

(MASUCF)-Mason Urgent Care Facility 800 E. Columbia St., Mason

(MHS)-Mason High School 1001 S. Barnes St., Mason

(MMS)-Mason Middle School 235 Temple St., Mason

<u>OKEMOS</u>

(OKCE)-Chippewa Middle School 4000 Okemos Rd., Okemos (Entrance via Kinawa Drive)

OWOSSO (OWOSSO)-Owosso High School 765 E. North St., Owosso

PERRY (PERRY)-Perry High School 2775 Britton Rd., Perry

PORTLAND (PORT)-Portland High School 1100 Ionia St., Portland

<u>ST. JOHNS</u>

(STJCCC)-Clinton County Center, St. Johns 1013 S. US 27, Suite C, St. Johns

STOCKBRIDGE (SBHS)-Stockbridge High School 416 N. Clinton St., Stockbridge

WAVERLY (WAVMS)-Waverly Middle School 620 Snow Rd., Lansing

WILLIAMSTON

(WMSTHS)-Williamston High School 3845 Vanneter Rd., Williamston

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