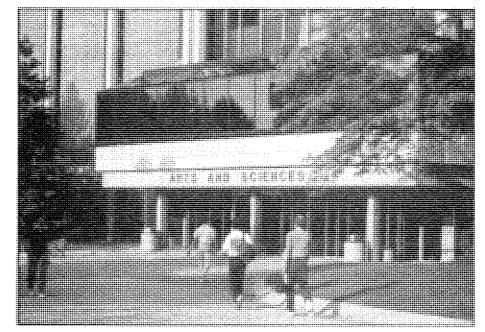
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2000-2001 Catalog

Lansing Community College Where Success Begins



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.lansing.cc.mi.us Accredited by North Central Association of Colleges and Schools

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 140 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!

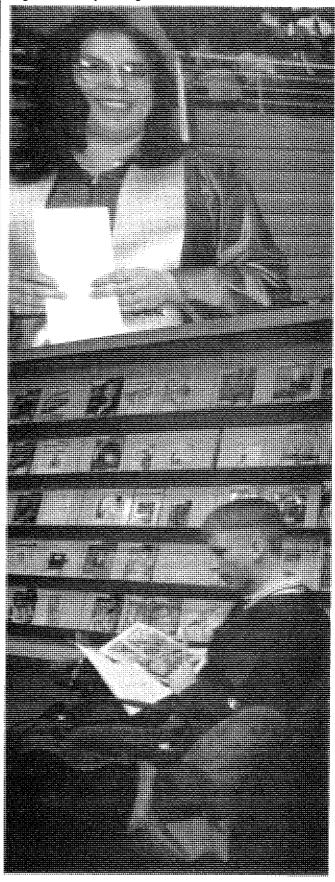
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Please keep this catalog as a reference to the learning opportunities available at Lansing Community College. Education is a lifelong process, and LCC continues to be a resource for its students throughout the nation and the world. Futures not only begin at LCC, they are enriched, over and over, throughout a lifetime.

This catalog was produced by Planning and College Relations at Lansing Community College.





MISSION STATEMENT

Lansing Community College exists so that all people have educational and enrichment opportunities to improve their quality of life and standard of living.

www.lcc.edu

Lansing Community College

BOARD OF TRUSTEES



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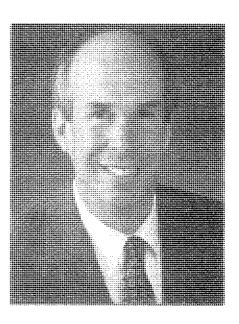
The Board of Trustees abides by the Open Meetings Act which allows opportunities for student and/or public comment.

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MESSAGE FROM THE PRESIDENT

Dear Student,

Welcome to Lansing Community College, I know your educational experiences here will be challenging, exciting, and fulfilling. You will be enriched by many new opportunities and experiences. Together, faculty, staff, administration, and students can accomplish much. We want your experiences here to improve the educational, social, and economic qualities of your life.



Whether you have come to Lansing Community College to start or to continue your college career, to learn new career skills, or to pursue a personal interest, we are confident we can help you achieve your goals. We offer many opportunities. Most important are our many outstanding programs and courses, each presented with state-of-the-art teaching and technology. We also offer a wide range of career exploration, international, and transfer programs to enrich your classwork.

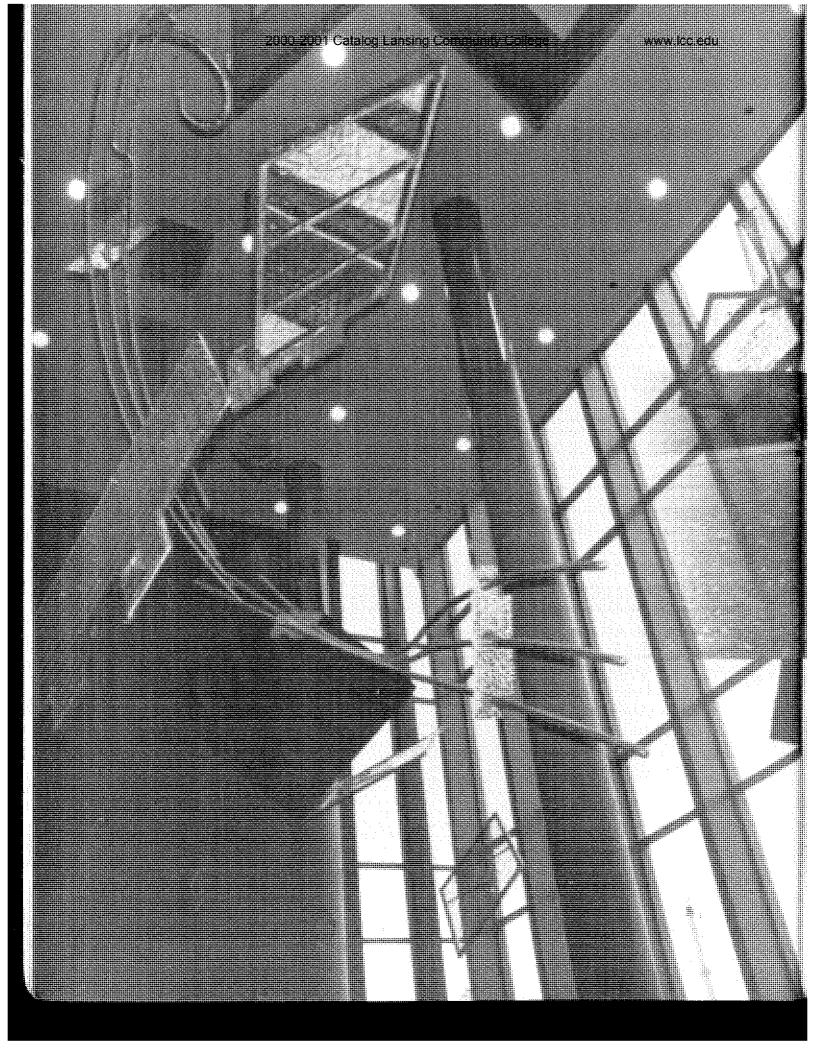
LCC provides many diverse and interesting extracurricular activities. You might participate in programs offered by the Student Leadership Academy, Volunteer Services, The Lookout (LCC's student newspaper), performing arts, student clubs, our radio and television stations, and athletics or athletic events.

We value you and are working diligently to have your LCC experience exceed your expectations. Please help us do that by communicating suggestions and ideas for improving any area of this—YOUR college. You can do that by contacting faculty or staff members or by communicating with me personally.

I wish you all the best.

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James F. Anderton, IV President Lansing Community College



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General Information

2000-2001 Catalog Lansing Community College DIRECTORY OF DEPARTMENTS

Careers Division

Careers Division	
Career Services (GVT 2430)	. 483-1172
Career and Employment Services	. 483-1172
Business Careers (OC 210)	
Accounting American Institute of Banking	483-1599
Business	
Computer:	
Business Software	
Information Systems for Business	
Office Applications	
Word Processing	
Credit Union Hotel/Motel and	483-1541
Food Service Operations	483-1542
Insurance	
Labor Relations	
Legal Assistant	
Management	
Marketing	
Office Administration	483-1587
Property Valuation and Assessment Administration	483-1532
Real Estate	
Secretariai	
Travel and Tourism	
Human, Health and Public Service Ca	
(GVT 175)	
Allied Health	
Community Health Services	
Corrections (OC 224)	
Court Reporting (OC 224)	
Criminal Justice (OC 224)	. 483-1570
Dental (A&S 007)	
Assisting	
Hygiene	
Diagnostic Medial Sonography Emergency Medical Technology	
Fire Science	
Gerontology/Aging	
Human Services	
Law Enforcement (OC 224)	
Massage Therapy	
Medical Assistant	
Nursing Paramedic	
Police Academy (OC 129B)	
Radiologic Technology	483-1410
Social Work	483-1410
Surgical Technology	.483-1410
	100 1000
Technology Careers (GVT 136) Agriculture	
Apprentice Programs	403-9075
Architecture	
Art, Design and Multimedia (AOF 314) .	483-1476
Automotive/Auto Body	483-1336
Aviation/Avionics (Airport)	
Building Maintenance	
Building Trades	
Civil Technology	483-1336
Computer-Alded Draning and Design Computer Graphics	
Computer Repair Technician	
Computerized Numerical Control	
Program	
Electrical Technology	
Electronics Technology Geographic Information Systems	
Geographic monitation systems	. 463-9675

(Area Code 517)

Heating, Ventilating, and Air Conditioning . 483-1404
Horticulture
Interior Design
Landscape Architecture
Machine Tool Technology
Machine Maintenance
Media Technology (TLC 123)
Motion Picture Technology
Photo Imaging Technology (PC 117) 483-1673
Quality Assurance
Residential Builder
Stage Technology
Truck Driver Training (517) 483-1336
(Fort Custer, Battle Creek) (616) 731-4125
Welding Technology

Business & Community Institute

Business and Industry Training
Continuing Professional Education 483-1179
Facilities Rentals/Conference Services
Instructional Services
Small Business Development

International Programs	483-1006
Japan Adventure/	

	Japan	Horizon	(OUF	228)	

Liberal Studies Division

Office of Instruction (A&S 110)	483-1015
Military Science/ROTC	483-1015
Teacher Education Project	483-1015

Communication (A&S 211)	483-1040
Foreign Language	483-1040
Linguistics	483-1040
Sign Language	483-1040
Speech	483-1040
Writing/Journalism	483-1040

Humanities and Performing Arts

(A&S 255)	
Humanities (Art History, English/Liter	ature. History.
Humanities, Philosophy, Religio	n) 483-1018
Performing Arts	
(Dance, Music, Theater)	483-1018
Math and Computer Science (A&S 4)	08) 483-1087 -
Applied Math	483-1087

Applied Math	483-1087
Computer Science	483-1087
Statistics	483-1087
Transfer Math	483-1087

Physical Fitness and Wellness

Kinesiology	483-1227
Professional	483-1227
Science (A&S 408)	
Anatomy	
Biology/Molecular Biology	
Chemistry	
Environmental Science	
Geological Science	483-1092
Integrated Science	
Physics	483-1092
Social Sciences (A&S 353)	
Economics	
Geography	
Political Science/Government	

Police and Public Safety

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Public Safety (GVT 250)	
TDD	

Student and Academic Support Division

Assessment Center (GVT 2100)
Athletics (GVT 452)
Enrollment Services
Counseling (GVT 2300)
Advising Center (GVT 2300)
Disability Support Services
(GVT 2300)
TDD
Student Development Courses
(GVT 2300)
Women's Resource Center
(GVT 2300)
Entry Services (GVT 2200)
Admissions (GVT 2200) 483-1200
Limited English Proficiency
(GVT 2381)
Minority Outreach and Recruitment
(GVT 2381)
Multicultural Center (GVT 2370) 483-1059
Native American Leadership
Program (GVT 2381)
Office of the Registrar (GVT 2200) 483-1200
Financial Aid (GVT 2200)
Veteran's Services (GVT 2200) 483-1296
Honors (A&S 211)
Instructional and Student Support
Library Information Services (TLC 201A) 483-1657
Tutorial Services (A&S 103) 483-1206
Media Services (TLC 123) 483-1670
Interactive Learning Center (OC 200) - 483-1566
Telecourse Hotline (TLC 123) 483-1695
Teletearning (TLC 123) 483-1670
Student Life (GVT 200F) 483-1285
Language Skills (A&S 253G)
Learning Center (A&S 253)
Limited English Proficiency
Courses (A&S 253G)
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www.lcc.edu

ACADEMIC CALENDAR

For an up-to-date academic calendar, including start and end dates for the 2000–2001 Fall Semester, Spring Semester, and Summer Session, point your Web Browser to:

www.lansing.cc.mi.us

or call our Information Center at:

1-800-644-4LCC or 1-517-483-1620

In addition, registration information and dates are published in the *Course Schedule* for each semester, or students may call the Office of the Registrar.

Fall Semester 2000

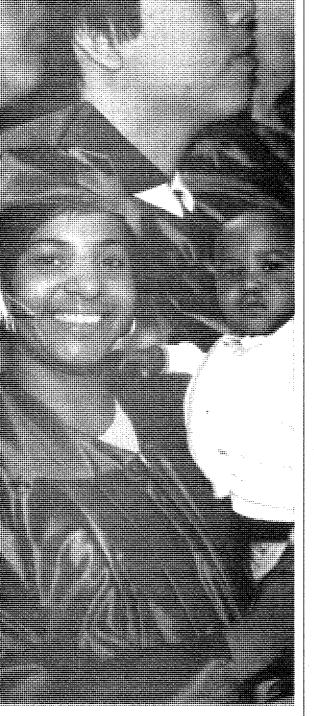
Classes Begin	August 24
Labor Day	September 4
Thanksgiving	November 23, 24
Classes End	December 17

Spring Semester 2001

Classes Begin	January 13
Martin Luther King, Jr. Holiday	January 17
Spring Break	March 5–11
Classes End	May 11
Graduation	May 12

Summer Session 2001

Classes Begin	June 6
Independence Day	July 4
Classes End	August 1



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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.
- Attach the nonrefundable \$10 application tee (check or money order made payable to Lansing Community College) to the application.
- 3. International applicants must follow the procedures outlined under International Applicants.
- Applicants in high school must follow the procedures outlined under Dual Enrolment Program or Special Admission Program.
- Nonpublic home school applicants must follow the procedures outlined under the Nonpublic Home School Program.
- 6. 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 ADMISSIONS OFFICE LOCATED IN THE GANNON VOCATIONAL-TECHNICAL CENTER, SUITE 2200. ITEMS SHOULD BE MAILED TO: 1111-ADMISSIONS OFFICE, LANSING COMMUNITY COLLEGE, PO BOX 40010, LANSING, MI 48901-7210. FOR ADDITIONAL INFORMATION CALL (517) 483-1200.

Applicants who are admitted to LCC 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 *College Catalog*, the *Course Schedule*, and on the College's World Wide Web home page http://www.lansing.cc.mi.us/. 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. Students attending START (Student Testing and Registration Times) orientation are required to take the tests.

Any exceptions to prerequisites or skill levels are determined by the department offering the course.

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 Admissions Office. The results may satisfy the reading and/or writing or the mathematics prerequisites. The Advanced Placement examination results may also result in the awarding of credit for a specific course.

Students who have earned credits from an accredited college or university should have their official transcript sent to the LCC 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 Admissions Office.

Academic Advising for Student Success

Faculty 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. The Counseling Services Department has advisors and counselors in Room 2300 of the Gannon Vocational-Technical Center. (517) 483-1904.

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.

Faculty 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 Admissions Office to further information by calling (517) 483-1254 or writing 1111-ADMISSIONS OFFICE, LANSING COMMUNITY COLLEGE, PO BOX 40010, LANSING, MI 48901-7210.

- Court Reporting. Associate in Business
- · Dental Assistant, Certificate of Achievement
- Dental Hygienist Program. Associate in Applied Science
- Diagnostic Medical Sonography. Associate in Applied Science.
- Fire Academy, Certificate of Completion
- · Histologic Technology. Associate in Applied Science

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- · Medical Assistant, Certificate of Achievement
- · 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
- Surgical Technology, Certificate of Achievement
- Truck Driver Training, Certificate of Completion

International Applicants

Internetional 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 affected by U.S. Immigration and Naturalization Service (USINS) regulations. 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 1111-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, \$10 application fee, 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. All admission material from applicants outside the United States must be received by the College no later than eight weeks prior to the first day of walk-in registration for the semester of attendance.

The 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. Director or Assistant Director of Entry Services
- 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, the nonrefundable \$10 application fee, and letter of authorization to the LCC 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.
- (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 affords 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;
- 2. Have attained freshman or sophomore high school standing prior to ap-
- plying for the program.3. Have attained 14 years of age by December 1 of the student's freshman year.

Application Procedures for the Special Admission Program

- Applicants must: 1. Complete a Special Admission Supplemental Application for each class in
- which the student intends to enroll;
- 2. Submit an official high school transcript each semester of attendance;
- 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), the nonrefundable \$10 application fee, and transcript to the LCC 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 semester. 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.
- 2. Written consent from the student's parent/guardian and approval from the home school provider is required on the application.

- 3. Applicants must meet with a Counselor to discuss the student's educational plan each semester.
- 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.
- Applicants must mail or bring the completed application and the nonrefundable \$10 application fee to the LCC Admissions 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;
- 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 and the nonrefundable \$10 application fee to the Admissions Office prior to enrolling in classes.
- (See Appeal Process for Denial of College Admission for appeal procedures.)

APPEAL PROCESS FOR DENIAL OF COLLEGE ADMISSION

Applicants 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 Counselor or Admissions Staff Member

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

STEP 2: Director of Admissions

(If admission was originally denied by the Director of Admissions, 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 Admissions at least one working day prior to the appeal meeting. The Director of Admissions shall render a decision 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 Admissions shall discuss Step 3 of the appeal process with the applicant. If the applicant wishes to appeal the denial, the Director of Admissions 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 applicant's 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 Dean of Student and Academic Support (Chairperson) or his or her designee
- 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:

- STEP 1: International Admissions Specialist or his or her designee STEP 2: Director of Admissions
- STEP 3: Board of Appeals

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

10 M LANSING COMMUNITY COLLEGE CATALOG 2000-2001

- 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 200F in the Gannon Vocational-Technical Center. There is no fee for this service.

FINANCIAL AID INFORMATION

The Student Financial Aid/Veteran Services Department 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.
- 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 Student Financial Aid/Veteran Services Department for information.
- 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 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 consult the Office of Student Financial Aid/Veteran Services Department or Office of Admissions for information about private scholarships, grants, loans, employment, and college transfer scholarships available to LCC students.
- Foundation Scholarships are provided through the Lansing Community College Foundation Office.

 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 \$3,300 (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 Adult 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 the past 12 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, Student Personnel Services Building, 2nd floor.
- 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 Community Education and Services Department at (517) 483-1180.

Loans

Money that must be repaid beginning six months after graduation or enrollment of less than six (6) credits, with the exception of the PLUS loans which must begin repayment upon 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 Student Financial Aid/ Veteran Services Department.
- 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, an LCC Financial Aid Application, and an LCC application for William D. Ford Direct Subsidized and Unsubsidized Student Loans.
- 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 Student Financial Aid/Veteran Services Department.
- 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 Student Financial Aid/Veteran Services Department.

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's or employer's office.

 Community Service Learning off-campus employment opportunities are available to students who are 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 Student Financial Aid/Veteran Services Department has information regarding the availability of funds and application procedures for the following programs:

- Armed Services
- Veterans' Benefits
 Children of Dischlight
- 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 three options available for submission:

- The completed FAFSA form may be submitted via the World Wide Web through the Financial Aid lab located in the Student Personnel Services Building, Student Financial Aid/Veteran Services Department. Processing time is 14 to 21 working days after the student enters the application. Call (517) 483-1296 to schedule an appointment. Staff is available to assist students with filling the application. The Student Aid Report (SAR) results are then mailed to the student.
- 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 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.

Students will receive an Award Letter no later than fourteen days after 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: 1111 ADMISSIONS, LANSING COMMUNITY COLLEGE, PO BOX 40010, LANSING, MI, 48901-7210. All students must complete the Free Application for Federal Student Ard (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 Student Financial Aid/Veteran Services Office.

LCC Board of Trustees Scholarship forms are available through district high schools' counseling offices. Scholarship forms are also available at the LCC Admissions Office and the Student Financial Aid/Veteran Services Department.

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 Student Financial Aid/Veteran Services Department 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 Admissions Office and when the Student Financial Aid/Veteran Services Department receives the results of the federal application for student financial assistance. 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 Student Financial Aid/Veteran Services Department.

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 Student Financial Aid/Veteran Services Department.

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 falls 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 funds permit. These students may also apply for Federal Direct Student Loans.

FALSIFICATION OF INFORMATION

Falsification 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 federel authorities. If you purposely give false or misleading information, you may be fined \$10,000, sent to prison, or both by the federal government.

The Student Financial Aid/Veteran Services Department may be required to verify information provided on the Financial Assistance 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.

Summer Session

Summer Session is shorter than Fall and Spring Semesters. Six credits is considered full-time for financial aid purposes, five credits is considered three-quarter time, and three credits is 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 semaster. 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
- 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 may be mailed or available for pick up at the Cashier's Office 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 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. Federal 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

An administrative fee of the lesser of five percent of the refund or \$100 will be held by the College.

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 ald.

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:

- 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

New students receiving financial aid at Lansing Community College for one semester or its equivalent who do not make satisfactory academic progress will receive an academic warning letter instructing them to meet with an academic counselor. They will remain eligible to enroll and receive assistance for an additional semester.

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 aver-

age to a 2.0 or greater and has completed at least 70 percent of all credit $\ensuremath{\mathsf{hours}}$ 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 after thirty-six (36) attempted credit hours 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 office of Student Financial Aid/Veteran Services 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. The condition or situation must be documented by a letter from a physician, attorney, social services agency, licensed therapist or counselor, or clergy or an obitary notice or divorce decree. 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 net 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 in preparation for regular academic program requirements may have 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 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 federal 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

Veteran Services helps veterans file applications for education, 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 pey 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 Student Financial Aid/Veteran Services Department 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. or 8

After enrollment, veterans should direct their inquiries concerning eligibility to the Student Financial Aid/Veteran Services Department 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 until after the semester in which the student regains academic good standing (*Academic Standing Policy*).

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, "W" or "Z" for course work pursued. It is the recipient's responsibility to notify Student Financial Aid/Veteran Services 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 Collage 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' educational 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.

VIRTUAL COLLEGE

.Virtual College allows students to earn an associate degree utilizing the power and connectivity of the Internet. Independent, highly motivated learners, as well as those who face time and place constraints, will find the option especially attractive. Students enrolled in LCC's Virtual College program will be guided by dedicated instructors whose courses have been specifically designed to deliver all the benefits of traditional learning but without the requirement to visit an LCC campus. The Internet component of these courses enables students to interact with each other and with the instructor. Though in most cases a textbook provides the content for these discussions, many courses have the lessons online as well. See the current *Course Schedule* or visit the Virtual College Web site at http://vcollege.lansing.cc. mi.us/ for more information.

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.
 - ^Lb. 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).
 - e. 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
- C. Rental or 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 tultion.
- 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 outof-state 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

Upon registering, a student shall be notified of his or her 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 the Office of the Registrar 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. Tuition and fees are as follows:

TUITION PER CREDIT HOUR*

Resident Students	\$ 49.00
Nonresident Students	\$ 78.00
Out-of-State Students	\$107.00
International Students	\$107.00

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

FEES FOR ALL STUDENTS*

Application Fee (new students and	
guest students, not refundable)\$10.00	
Registration Fee (all students,	
each semester, not refundable) \$20.00	
Activities Fee (each semester)	
.016 credit hours\$ 1.50	
6.01–11 credit hours\$ 4.50	
11.01 or more credit hours\$ 7.50	

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 THUSTEES.

Refund Policy for Semester-Length Courses

Fall and Spring Semesters and Summer Session

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 Variable Date Drop Form in the Office of the Registrar or through the department offering the course. Refunds are automatically issued for courses canceled by the College. The application and registration fees are nonrefundable.

www.lcc.edu

UP TO AND INCLUDING THREE-DAY COURSES

100% Refund*	. Prior to start of course
Drop with no course shown	. Prior to start of course
	Students with a valid reason for exception
	to this policy may fax, mail, or present their
	support documentation to the Office of the
	Registrar or the department offering the
	course.
Change credit/audit status	. Prior to end of course meeting

FOUR-DAY - LESS THAN EIGHT-WEEK COURSES

100% Refund*	Prior to start of course
Drop with no course shown	Prior to start of course
	Students with a valid reason for exception
	to this policy may fax, mail, or present their
	support documentation to the Office of the
	Registrar or the department offering the
	course.
Change credit/audit status	Through midpoint of course (using calen-
	dar date—beginning through ending dates
	of course)

EIGHT-WEEK -- LESS THAN 12-WEEK COURSES

100% Refund* Du	ring the first week of the course
50% Refund (of tuition only) Du	ring the second week of the course
Drop with no course shown Du	ring the third week of the course
Change credit/audit status	or to the end of the fourth week of the
00	Irse

12-WEEK – LESS THAN 16-WEEK COURSES

100% Refund*	During the first week of the course
50% Refund (of tuition only) I	During the second week of the course
Drop with no course shown	During the fifth week of the course
Change credit/audit status F	Prior to the end of the sixth week of the
0	course

*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 enroliment	12 credits
Three-quarters enroliment	. 9 credits
One-half enrollment	. 6 credits

SUMMER SESSION (8 WEEKS)

Full-time enrollment	6 credits
Three-quarters enrollment	5 credits
One-half enrollment	3 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 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 Office of the Registrar may be accurately maintained:

 Pick up a Drop-Add Form during the registration process or at the Office of the Registrar,

- 2. Fill out the form completely with information requested.
- Return the form to the registration assistant or to the Office of the Registrar 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.

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 cr 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 16-week courses (and other equivalent dates as specified for variable length course) 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 credit or audit status must be paid by the student. Changes in audit or credit status must be requested by the student through the Office of the Registrar.

WITHDRAWAL

I. Student-Initiated Withdrawal

- A. If a student finds it necessary to withdraw from the College, he or she should contact the Office of the Registrar immediately and complete a dropadd 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 Office of the Registrar.
- D. A student may 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. 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 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 to withdraw, and the student will receive a grade of W.

II. Administrative Withdrawal

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 and with the co-recommendation of the respective departmental chairperson. An administrative withdrawal may be based on the following: (1) student nonattendance; (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 meet the attendance requirements of the class, the instructor may initiate an administrative withdrawal through the Office of the Registrar.
- 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 Office of the Registrar.

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 guidelines are not satisfactorily met by the student or if the student does not respond to an invitation to meet with the classroom instructor, the classroom instructor, with the correcommendation of the appropriate departmental chairperson, may initiate an administrative withdrawal. The classroom instructor, with the correcommendation 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 Office of the Registrar. 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.
 - 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.

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 course is publicized in the *College Catalog* and the *Course Schedule*. 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:

		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 College. All requests for incompletes are initiated by the student. An instruc-

tor 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 Office of the Registrar 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:

NUMERICAL GRADE	GPA POINTS
4.0	4.0
3.5	3.5
3.0	3.0
2.5	2.5
2.0	2.0
1.5	1.5
1.0	1.0
0.0	0.0

"W", "X", and "F" 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.
- 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 definition of "P" and "Z" as follows:
 - a. P (pass) represents a level of performance equivalent to a regular number grade of 2.0 or above on a 4.0 system; credit 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.

GRADE REPORTS

An official academic grade report will be mailed to the student 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 Office of the Registrar for posting on the student's permanent academic record. Completed grade change forms are not to be carried by the petitioning student to the Office of the Registrar and will not be processed if they are so received. Students will be officially notified in writing by the Office of the Registrar 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 by earning 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 aid 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.

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 has an Academic Amnesty Policy in order to allow such students a second chance. Qualified students may receive academic amnesty for a maximum of eighteen semester hours (or the quarter/term equivalent) of grades of 0.0. They will no 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 amnesty, and the application must be signed by an academic advisor or counselor. In order for a student to qualify for academic amnesty, the following conditions must be met:

- 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.
- Academic amnesty may be granted only once to any student and is irrevocable.
- Academic amnesty, when granted, applies only to LCC courses---not to any courses at other institutions. Further, there is no guarantee, expressed or implied, that academic amnesty will be recognized by any other college, university, or employer.

STUDENT RECORDS

STUDENT TRANSCRIPTS

The Office of the Registrar maintains the permanent official transcript 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 their official transcript be given or mailed to any party by submitting a request in writing to the Office of the Registrar. Transcript requests require three working days to process, and a \$2.00 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 Office of the Registrar in Suice 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).
- Educational records include all information maintained by the College which 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. However, the College must permit access to that part of the record which pertains only to the inquiring student.
 - 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.

- g. Records 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.

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 Office of the Registrar. 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. Date of birth
 c. Dates of attendance
 - d. Enrollment status

 - e. Awards, degrees, or certificates receivedf. Participation in officially recognized activities
- g. Sport, weight, and height of members of athletic teams
- h. 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 Office of the Registrar 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.
 - b_e Other educational institutions in which the student is enrolled or intends to enroll.
 - Individuals and organizations who provide financial aid or scholarships 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 student shall be notified of any such orders or subpoenas unless the subpoena or order prohibits notification
 - by the College. 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.
 - h. Parents who have established the student's status as a dependent according to Internal Revenue Code of 1954, Section 152.
 - 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.
 - 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 Office of the Registrar 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.

TRANSFER OF CREDITS

A student expecting to transfer to a four-year institution is advised to examine the current catalog of the college he or she expects to enter and to follow as closely as possible its recommendations for particular programs of study. More specific information about transferring credits may be obtained from a counselor or advisor.

ACCEPTANCE AND EVALUATION OF TRANSFER CREDITS FROM OTHER INSTITUTIONS OF HIGHER EDUCATION

Only official transcripts will be evaluated for transfer credit. The credit value of each of the courses will be determined by Lansing Community College. 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 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 Admissions Office of the College to verify the 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.

The following evaluation information applies to transcripts received from both accredited and non-accredited institutions of higher education. Additional evaluation information which applies to transcripts from non-accredited institutions may be found under the section entitled *Non-Accredited Institutions*. More specific information about guidelines and procedures for accepting credits in transfer may be obtained from the Office of the Registrar.

Accredited and Non-Accredited Institutions

- Freshman and sophomore level courses are accepted in transfer. Higher level credits are accepted if they correspond to a specific course at Lansing Community College. In most cases, an accepted course will be considered an equivalent of a corresponding Lansing Community College course or an elective credit. In cases where Lansing Community College does not have a department or area similar to the courses on incoming transcripts, no credit will be given. Credits for courses graded Pass/Fail are not accepted in transfer.
- 2. Credits only, not grades, are transferred. When the overall grade point average of a transferring student is at or above a 2.0 on a 4.0 scale, the 1.0-1.5 or "D" grades will be accepted. Credits transferred in to specifically fulfill LCC General Education Core requiremants and MACRAO requirements, however, 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 transferring
- ferred 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 departmental chairperson of the department concerned will notify the Office of the Registrar of waivers.
- 3. 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.
- 4. 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. A determination on the evaluation will be made by the departmental chairperson in conjunction with the Registrar. Verification of the change can be made through the Office of the Registrar.

Non-Accredited Institutions

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

- The Office of the Registrar 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:

- a. 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 a par with existing courses of the College. It is the responsibility of the student to provide requested materials to enable proper evaluation.
- c. Credit may be granted upon demonstration of proficiency in a particular existing course by a comprehensive examination.
- d. Credit may not be granted.
- 3. The departmental chairperson will return the transcript to the Office of the Registrar 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 in which the student is enrolled will be responsible for consulting with the additional departmental chairpersons. When two or more departments are involved, the written reply to the Office of the Registrar will include the signatures of each respective departmental chairperson and the respective dean.
- 5. Credits from non-accredited institutions are evaluated by the departmental chairperson of the area in which the student enrolled. If the student changes his or her curriculum, he or she should notify the Office of the Registrar 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 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.

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 credentialling function. Any student who is currently enrolled at Lansing Community College may apply for experiential learning credit by obtaining an Experiential Learning Processing Form from the Office of the Registrar, Student and Academic Support Building, (517) 483-1266.

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 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 experiences must have been obtained from a nonacademic source or not

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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 the processing fee and submitting 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 Office of the Registrar 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.

Documentation

All experiential learning must be documented by the student. 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 portfolio containing the Experiential Learning Processing Form and all supporting documents will be retained by the College.

Assessment of Portfolio

The completed Experiential Learning Processing Form and portfolio of supporting documents will be forwarded by the Office of the Registrar 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 semester 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.

CREDIT BY EXAMINATION

Comprehensive Exams

A student may obtain credit for certain courses at the discretion of an instructor and department head by passing comprehensive examinations only during the semester in which the student is enrolled. The procedure a student uses to obtain comprehensive examination credit is as follows:

- 1. The student picks up an application for credit by examination at the Office of the Registrar.
- The student completes the required information on the application and takes the application to the department for instructor and departmental chairperson signatures of approval.
- After obtaining the required signatures, the student returns the signed application to the Cashier's Office for payment of tuition.
- 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.
- 6. The examination, after being evaluated by the instructor, will be maintained on file in the departmental office.
- The Office of the Registrar 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.

Other Examinations

Lansing Community College accepts credit based on results from the following examinations: College Level Examination Program (CLEP) and the Advanced Placement Examination (AP). Students in need of information about these examinations should contact the Registrar's Office.

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 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 College and consisting of a minimum of 30 semester credits for a certificate of achievement and 29 or fewer semester credits for a certificate of completion with no more than 10 percent of these credits acquired on the pass/fail (P-Z) grading system. (See the Degree and Certificate Programs section of this catalog.)
- 2. Maintain a minimum grade point average of 2.0.
- 3. Earn toward graduation at least one-third of the semester credits for the certificate in attendance at Lansing Community College.
- File an application for graduation with the Office of the Registrar 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 guides 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:

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- 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/fail (P-Z) grading system. (See the *Degree* and *Certificate Programs* section of this catalog.)
- 2. Maintain a minimum grade point average of 2.0.
- 3. Earn toward graduation at least 20 semester credits in attendance at Lansing Community College.
- Satisfy the College's General Education Core Area Requirements, including demonstrated competency in mathematics.
- 5. Satisfy all general and specific requirements of Lansing Community College.
- File an application for graduation with the Office of the Registrar at least 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 døgree. 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 12 LCC General Education Core credits, demonstrated mathematics competency, additional general education 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 12 LCC General Education Core credits, demonstrated mathematics competency, additional general education 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 oareers. 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 12 LCC General Education Core credits, demonstrated mathematics competency, 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 oredits, including a minimum of 12 LCC General Education Core credits, demonstrated mathematics competency, 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 current careers. This degree includes a concentration of ocurses in areas such as marketing, management, and office administration. Requirements: 60–72 credits, including a minimum of 12 LCC General Education Core credits, demonstrated mathematics competency, 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 which should be approved by an advisor. It includes one or more areas of concentration of the student's own choosing. Requirements: 60 credits, including a minimum of 12 LCC General Education Core credits, demonstrated mathematics competency, and institutional associate degree requirements.

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 assoclate 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 in the areas of mathematics, global perspectives and diversity, science and technology, speech communication, and writing for students seeking an LCC associate degree. The student outcomes expected for each of the Core areas are presented below.

1. Mathematics

- Use the strategies of arithmetic, geometry, and algebra to solve problems which include the concepts of length, area, volume, angle, percent, ratio, and proportion.
- Use and interpret expressions involving symbols in one and two variables which include parentheses, exponents, and radicals.
- · Use, interpret, and produce graphs in one or two variables.

2. Global Perspectives and Diversity

- Describe and analyze the ways in which different world societies/civilizations establish social, political, and economic order and the effect of these on individuals and societies/civilizations.
- Describe and analyze the ways in which different world societies/civilizations view themselves.
- Describe and analyze how different world societies/civilizations have searched for truth, justice, and an understanding of what it means to be human.
- Describe and analyze how the major concepts within world societies/civilizations have resulted in peaceful and/or violent solutions to conflicts.
- Describe and analyze how major ideas, issues, values, and institutions in world societies/civilizations have shaped cultures and the effect these have on individuals.
- Describe and analyze how the United States includes and/or excludes diverse perspectives of different gender and ethnic groups.
- Describe and analyze how the arts reflect the major social, political, and individual concerns of world societies/civilizations.

3. Science and Technology

- Exhibit basic knowledge of the nature, scope, purposes, and limitations of science and technology as well as the connections between them.
- Demonstrate ability to gather, analyze, interpret, and draw conclusions from scientific and/or technical information.
- Understand and apply methods of science and technology by demonstrating appropriate experimental, problem-solving, and decision-making skills in a scientific and/or technological context.
- Understand the historical role, contemporary importance, and social and ethical implications of science and technology.
- Evaluate the impact of scientific and/or technological change on, for example, occupations; world, national and regional economies; business, industry, and social institutions.

4. Speech Communication

- Define and explain the nature and components of the communication process.
- Use language and nonverbal behavior to express ideas and feelings clearly and responsibly in interpersonal encounters.
- Participate constructively in group discussions as a leader or member.
- · Research, prepare, and deliver public speeches effectively.
- Listen, with both literal and critical comprehension, to spoken messages in a variety of communication situations.

5. Writing

- Understand, analyze, and synthesize abstract concepts and concrete principles and information.
- Properly locate, incorporate, and attribute sources of information.
- Conform to conventions of grammar, punctuation, spelling, and diction, as appropriate to the purpose of the writing.
- Produce effective writings, including summaries, reports, and analyses.

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 edition of the College Catalog 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 institutions. Students planning to transfer should see an academic advisor or counselor before enrolling in any course.

How to Satisfy the General Education Core Requirements for Mathematics

To satisfy the General Education Core requirements for mathematics, a student must demonstrate mathematics competency. This can be done the ways listed below. Students should be aware that placement test scores, evidence of an earned associate degree, waiver of a specific Core course, and combinations and/or portions of courses do NOT satisfy or waive the LCC Core requirement for mathematics.

- 1. Passing the MATH 112 Proficiency Examination with the equivalent of a 2.0 grade or higher. (This exam is administered free of charge in the Learning Center, Room 309, Arts and Sciences Building. It may be taken up to two times for purposes of satisfying the Mathematics Core.)
- 2. Achieving a grade of 2:0 or better in one of the following approved Mathematics Core courses:

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MATH 112	Intermediate Algebra	(4)
MATH 115	Technical Math II	(4)
MATH 117	Math for Business	(4)

(Students must meet prerequisites prior to enrolling in these courses. See the Course Descriptions section of this catalog.)

3. Achieving a grade of 2.0 or better in any of the following non-Core mathamptics courses:

mauca courses.		
MATH 121	College Algebra	(4)
MATH 122	College Algebra II and Trigonometry	(3)
MATH 126	College Algebra and Trigonometry	(5)
MATH 130	Finite Mathematics	(3)
MATH 141	Calculus with Applications	(3)
MATH 151	Calculus	(4)
MATH 152	Calculus II	(4)
MATH 201	Math for Liberal Arts I	(3)
MATH 253	Calculus III	(4)
MATH 254	Introduction to Differential Equations	(3)
MATH 260	Linear Algebra	(3)

(NOTE: Achieving a grade of 2.0 or higher in one of these courses implicitly demonstrates competency. Descriptions of these courses can be found in the Course Descriptions section of this catalog.)

- 4. Establishing credit for an approved Mathematics Core course listed in #2 above or a non-Core mathematics course listed in #3 above through the Experiential Learning Process. (See section entitled Credit for Previously Acquired Knowledge and Learning Experience in this catalog.)
- 5. Transferring comparable course credit-general credit does not apply-for an approved Mathematics Core course listed in #2 above or a non-Core mathematics course listed in #3 above from an accredited institution. (See section entitled Acceptance and Evaluation of Transfer Credits from Other Institutions of Higher Education in this catalog.)
- 6. Establishing course credit for an approved Mathematics Core course listed in #2 above or a non-Core mathematics course listed in #3 above through the Advanced Placement Examination (AP), the College Level Examination Program (CLEP), or others as recognized by Lansing Community College.
- 7. Presenting evidence of an earned baccalaureate degree from an accredited college or university. This would fulfill all General Education Core requirements.

How to Satisfy the General Education Core Requirements for Global Perspectives and Diversity, Science and Technology, Speech Communication, and Writing

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

1. Achieving a grade of 2.0 or higher in an approved Core course (credits in par

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	of 2.0 of higher in an appreved barb score	
rentheses):		
ENGL 211	tives and Diversity World Literature I	(4)
ENGL 211 ENGL 212	World Literature II	(4)
	History of Art I	(4)
HUMS 211	History of Art II	(4)
HUMS 212	World Civilizations	(4)
HUMS 213	World Civilizations I	(4)
HUMS 214		(3)
MGMT 234	Diversity in the Workplace	(3)
OADM 275	Cultural Differences in Business	(4)
PHIL 211	World Philosophies I	(4)
PHIL 212	World Philosophies II	(3)
POLS 260	Comparative Political Systems	
SOCL 120	Introduction to Sociology	(4)
Science and Te	echnology	
ASTR 201	Introductory Astronomy	(4)
BIOL 210	Natural Resource Conservation	(4)
CHEM 135	Chemistry In Society	(4)
CHEM 151/161	General Chemistry Lecture I	
	and Laboratory I	(4/1)
CISB 200	Information Systems Technology	
	and Problem Solving	(3)
ISCI 121	Integrated Science for Education I	(4)
ISCI 131	Integrated Science – Physical	(4)
METR 220	Introduction to Meteorology	(4)
PHGY 202	Human Physiology	(4)
PHYS 215/225	Physics I: Mechanics and Laboratory	.(5/1)
Speech Comn	nunication	
SPCH 110	Oral Communication in the Workplace	(3)
SPCH 120	Dynamics of Communication	(3)
Writing		
ENGL 122	Writing about Literature and Ideas	(4)
ENGL 132	Honors Writing about Literature and Ideas	(4)
WRIT 121	Composition I	(4)
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ENGL 132	Honors Writing about Literature and Ideas	(4)
WRIT 121	Composition i	(4)
WRIT 122	Composition II	(4)
WRIT 124	Technical Writing	(3)
WRIT 127	Business Writing	(3)
WRIT 131	Honors Composition I	(4)
WRIT 132	Honors Composition II	(4)

Descriptions for each of the above courses can be found in the Course Descriptions section of this catalog.

- 2. Passing a Comprehensive Examination for an approved Core area coursa listed in #1 above in cases where such exams are available. Upon successfully completing the exam, a student would receive LCC credit for the course. The student is also required to pay tuition for the course prior to taking the exam. (See the section entitled Credit by Examination in this catalog.)
- Establishing credit for an approved Core course listed in #1 above through the Experiential Learning Process. (See section entitled Credit for Previously Acquired Knowledge and Learning Experience in this catalog.)
- 4. Transferring comparable course credit-general credit does not apply-for an approved Core course listed in #1 above from an accredited institution. (See section entitled Acceptance and Evaluation of Transfer Credits from Other Institutions of Higher Education in this catalog.)
- 5. Establishing Core course credit for courses listed in #1 above through the Advanced Placement Examination (AP), the College Level Examination Program (CLEP), or others as recognized by Lansing Community College
- 6. For global perspectives and diversity, writing, and science and technology, presenting evidence of satisfying MACRAO requiraments at an accredited college or university other than LCC, provided the student has earned a 2.0 or higher for each course. (NOTE: This does not satisfy the speech communication requirement.)
- 7. Presenting evidence of an earned baccalaureate degree from an accredited college or university. This would fulfill all General Education Core requirements.

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If a student has successfully completed an approved General Education Core course in any LCC curriculum, the student will have met that Core area requirement even if he or she changes to another curriculum. However, in the newly chosen curriculum, the student may need to take a *required* course that satisfies a Core area requirement that he or she has already fulfilled.

The following do NOT satisfy or waive LCC General Education requirements: evidence of an earned associate degree or certificate, placement test scores, a waiver of a specific Core course, completion of higher-level courses that are not approved Core courses (with the exception of mathematics), combinations and/ or portions of courses.

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.) The process of applying for a degree or certificate takes approximately one semester, so students should apply at least one semester in advance of the semester they plan to graduate.

- Procedures are as follows:
- Complete an Application for Diploma/Certificate. This application is evailable in the 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 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 Registrar's Office determines that there are requirements NOT met, the student will receive a report specifying the unmet requirements which must be completed. Students have until one year after the date of the application to satisfy the unmet requirements.
- 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 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 curriculum 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. (See the *Degree and Certificate Programs* section of this catalog for more information about transfer programs.)

REGULATION FOR THE GRANTING OF ADDITIONAL ASSOCIATE DEGREES

Any student who has 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, including demonstrated competency in mathematics, must be satisfied.
- No additional degree will be granted in the same program or curriculum in which the first degree was eerned.
- 5. An additional degree must be within a specific program or curriculum.
- Exceptions to the above should be appealed to the office of the respective dean.

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

A student who has eerned 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 semoster credit hours must be completed at Lansing Community College in the division in which the associate 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 Office of the Registrar 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 provide for students maximum freedom and necessary order. In order to ensure this principle, the College has established procedures for the redress of grievances by the in-

dividuals accused in such proceedings. In addition, general rules and regulations 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 which 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 physical force or intimidation against (a) any person on the College premises or at a Collegesponsored 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 attempt or offer, with force and violence, to do corporal hurt to another, with apparent present means of carrying out the attempt. Battery is an injury which results from an assault. Battery is an injury, regardless of intent, actually done to a person by another in an angry, revengeful, rude, or insolent manner.

Assembly

No person or persons shall assemble in a manner which 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 operations of 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 withdrawal from the class. Absence for any reason, including illness or late registration, in no 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 faculty-initiated notice of nonattendance, it is the student's responsibility to contact the instructor.

When a student cannot attend class due to illness or other extenuating reasons, the class instructor should be notified. This can be done by telephoning the departmental office in which the instructor is a member and leaving a message for that instructor.

Cheating

Each student is expected to be honest in his or her work. Cheating 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 aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; or (3) the acquisition, without permission, of tests or other academic material belonging to a member of the College faculty or staff. Any interaction between students in a testing situation may be interpreted as cheating. Academic honesty is twofold on the part of the student; 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-owned computer resources is a privilege extended by the College to students, employees, and other authorized users as a tool to promote the mission of the College. All users 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 LCC Acceptable Use Policy are available at the Library Circulation Desk and may also be accessed on the World Wide Web. The URL is http://www.lansing.cc.mi.us/lccinfo/aup.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 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.
- 7. 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 conviction 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.
- 10. In the spirit of providing a safe, healthy and drug-free environment, the College will:
 - 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;
 - 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,

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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.

- Distribute depices of this regulation to an new students and emproyees.
 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.
- 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
- When, thereafter, such officer or designee directs the person to vacate the premises, building, or other structure of the institution; and
- 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. Plagiarism is dishonest. Plagiarism 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.

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Smoking

In continuing compliance with the Michigan Clean Indoor Act, P.A. 198 of 1986, and in the interest of providing a safe and healthy environment for the College's students, employees, and visitors, smoking will not be permitted in Lansing Community College facilities.

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 cassettes, 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

Illegal or unauthorized possession of firearms, explosives, other weapons, or dangerous chemicals is not permitted on College property. The foregoing shall not prohibit fencing foils and other athletic equipment intended for such use, nor shall it apply to persons holding concealed weapons permits and duly constituted police officers who are authorized by law to carry weapons.

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" in all 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 Relations 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 Relations 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 the right to request a public or private hearing, but the decision rests with the College, after considering the wishes of the parties involved.

Student Appeals

A "line of appeal" is defined as the appropriate sequence of communication to be followed 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 encouraged 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 question and request a reconsideration.
- If the student is not satisfied with the resolution proposed by the person who initiated 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 Dean of Student and Academic Support (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.

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 notifiad 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:

- a. The student may admit the alleged violetion 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 Dean of the Student and Academic Support Division (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 withdraws!, a student will have up to 5 (five) calendar days (excluding Ssturday and Sunday) to appeal a decision after notification of that decision at a prior level.

4. Student Appeal of Educational Records

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:

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- a. 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 wishas 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 Dean of the Student and Academic Support Division 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.
- All procedural questions are subject to the final decision of the chairperson of the Judicial Board.
- 7. 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

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The Judicial Board will consist of the following members:

- The Dean of the Student and Academic Support Division or his or her designee; (NOTE: This member will serve as chairparson. However, when the Judicial Board is hearing an appeal based on a disciplinary decision of the Office of the Dean of the Student and Academic Support Division, the Dean of the Student and Academic Support Division will relinquish the chair, and a temporary chairperson will be elected by the remaining members of the Judicial Board from tha remaining members of the Judicial Board.)
- One College administrator appointed by the Dean of the Student and Academic Support Division;
- 3. Two students from the student body, selected by the members of the Leadership Academy, with consent of tha 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 trom 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.

STUDENT AND STAFF SEXUAL HARASSMENT, NONDISCRIMINATION, AND EQUAL OPPORTUNITY POLICY AND PROCEDURES

Lansing Community College is an equal educational opportunity institution and does not discriminate on the basis of race, color, sex, age, religion, national origin, disability, marital status, height, weight, or sexual orientation in any education opportunity. The investigation of all sexual harassment and/or discrimination completes will be handled through the Office of Equal Opportunity and Diversity Programs.

Sexual harassment/discrimination is unlawful and is not acceptable behavior on the College campus or at College-sponsored events off campus.

Sexual harassment is defined in the Equal Employment Opportunity Commission's guidelines and the Michigan Elliot-Larson Civil Rights Act (MIL.37.2101, et seq., as amended) as follows:

"....Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications of a sexual nature when:

- Submission to such conduct or communication is made a term or condition, either explicitly or implicitly, to obtain employment, public accommodations or public services, education or housing.
- 2. Submission to or rejection of such conduct or communication by an indi-

vidual is used as a factor in decisions affecting such individual's employment, public accommodations or public services, education or housing.

3. Such conduct or communication has the purpose or effect of substantially interfering with an individual's employment, public accommodations or public services, education or housing environment."

What Constitutes Sexual Harassment?

- Some examples that may constitute sexual harassment are:
- Subtle pressure for sexual activity
 - Unnecessary physical brushes or touches
- Offensive sexual graffiti
- · Repeated requests or pressure for dates
- Unwanted offensive contacts outside the workplace
- Disparaging sexual remarks about one's gender or sexual orientation
- Physical aggression such as pinching or patting
- · Verbal sexual abuse disguised as fun
- Obscene gestures
- Offensive sexual lokes

These examplas do not include all types of conduct that can constitute sexual harassment. Each situation must be considered in light of the specific facts and circumstances to determine if sexual harassment has occurred.

For the purpose of the above regulation, the College interprets "unwelcome" to mean:

- Conduct or communication which a reasonable person in a similar circumstance would consider unwelcome;
- Conduct or communication which continues after notice is given that the conduct or communication is unwelcome.

Other notable laws and public acts that prohibit discrimination include:

- Title VII of the Civil Rights Act of 1964, as amended and the 1992 Civil Rights Act which prohibits discrimination on the basis of race, color, sex, religion, or national origin.
- 2. Title IX of the Education Amendment of 1972, which prohibits discrimination on the basis of sex.
- Americans with Disability Act (ADA) which prohibits discrimination on the basis of disability.
- Age Discrimination in Employment Act (ADEA) which prohibits discrimination on the basis of age, 40 and over.

FILING EO/DISCRIMINATION COMPLAINTS

The guidelines/procedures below apply to LCC students and staff who bring forth informal complaints or desire to file a formal complaint regarding sexual harassment, racial harassment, and all other allegations of discrimination. The investigation of these complaints will be handled through the Office of Equal Opportunity and Diversity Programs, GUT 2376, telephone (517) 483-5232.

I. Responsibility to Report

Sexual harassment and allegations of discrimination must be reported to the Director of Equal Opportunity. Prompt reporting of all complaints is very critical, since it is often difficult to trace the facts of an incident or incidents long after they have occurred. It is recommended that complaints be filed within 60 (sixty) calandar deys of the alleged incident. All complaints will be investigated.

II. Retaliation/Reprisal

It is unlawful for any individual (student or staff) to be subjected to retaliation and/ or discrimination because he or she has opposed any practice, made a charge, testified, assisted or participated in an investigation/fact finding in any manner.

III. Receiving a Complaint

Students and staff who feel they are being sexually harassed or discriminated against should contact the Director of Equal Opportunity (517/483-5232). Complaint forms are available in the offices of College Human Resources, Divisional Deans, Vice Presidents, and Equal Opportunity. Studants and staff should not investigate or discuss the complaint with others. Confidentiality should be maintained by all involved in the complaint to protect the credibility and integrity of the fact finding process.

After receiving a complaint, the Director of Equal Opportunity may investigate

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the complaint or designate a person or persons who have been trained to investigate the alleged complaint.

A. Functions of Investigation Teams

- The responsibilities of the Investigation Teams are:
- 1. To help educate the Lansing Community College faculty, staff, and students about sexual harassment/discrimination.
- To assist in the investigation of complaints of sexual harassment/discrimination brought by LCC students or employees.
- 3. To make recommendations for resolution and/or corrective action.

B. Timetable

An investigation will begin no later than 20 (twenty) working days following the receipt of the sexual harassment/discrimination complaint form or immediately following a request from the EO Officer.

C. Complainants

The EO Officer will contact the complainant and inform him or her when the investigation will occur. The complainant may be asked to submit additional information, if necessary, for the investigation to continue. An exit interview will be conducted with the complainant to review the results of the fact finding.

D. Notification

The EO Officer will inform the alleged harasser/discriminator of the complaint as soon as is practicable or if appropriate, within the timeliness specified within the designated Master Agreement. The divisional leader and immediate supervisor will also receive notification that an investigation is in progress. The results of the investigation will be reviewed with the alleged harasser/discriminator in the exit interview upon the completion of the fact finding.

E. Confidentiality

Students and/or staff who bring forth formal or informal complaints of discrimination/sexual harassment should maintain confidentiality throughout the entire complaint process. Sharing information pertaining to a complaint should be on a "need to know" basis only. It should be noted, however, the College cannot guarantee confidentiality beyond the limits of the investigation.

At each step of this procedure, the College will take appropriate action to protect the privacy of individuals involved in the complaint. Both in fact finding and in the final disposition of the complaint, efforts will be made to maintain confidentiality.

During the investigation stage, the College may have to contact witnesses or other individuals. This will not be considered a breach of confidentiality. All witnesses will be requested to maintain confidentiality in the fact finding process. Witnesses should understand that they may be called upon to testify in a civil hearing or an arbitration case at some future date.

IV. RESOLUTION

Based on the results of the investigation, appropriate action will be taken by the College. Complaints may be dismissed or resolution could include disciplinary action up to and including dismissal or expulsion.

If through an investigation of sexual harassment/discrimination other wrongdoings are found, these issues will be dealt with separately from the sexual harassment/discrimination complaint.

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 provide 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

- 1. Within any and all buildings, placement of all signs and posters is restricted to approved bulletin boards.
- 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.
- 7. The removal of posters at or prior to the take-down date shall be the responsibility of the sponsoring organization or individual. No posters shall be removed prior to the take-down date by unauthorized individuals.
- 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 considered 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 Dean of Student and Academic Support Division. 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 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 public 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 kiosk, 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 kiosk 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 which 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.

2. 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.

 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 scheduled semesters.

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 request the use of 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 litered.
- 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.
- 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.

Literature Table Use Request Flow Chart

INDIVIDUAL STUDENT 1. Register for reservation for use of table. 2. Have Director of Student Life review copy of literature. 3. Place copies of literature on file in Student Life Office. 4. Have a copy of requisition 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

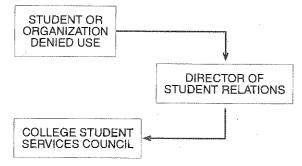
Any individual, registered student, or recognized student club or organization which has been denied access to the student literature tables or has been required to halt distribution based on procedure 10 may appeal the denial or requirement to halt distribution. The appeal shall be in writing and shall 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 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 must be in writing and presented to the Chairperson of the Director of Student Relations. The College Student Services Council shall make a prompt investigation of the Director of Student Relations is not set services Council within 10 calendar days of the decision to the College Student 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 appeal, contacting parties involved.

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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*.

Appeal of Denial Flow Chart



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.

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.

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- 1. 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;
 - d. 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; dishcnesty 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*. Coples of *The Student's Handbook* may be obtained from the Student Life Office, Room 200F, Gannon Vocational-Technical Center.

Career and Employment Services (CES) assists individuals with career choices and planning, job search activities, and career and professional goals. Licensed Professional Counselors are available to assist with the planning, changing, or confirming of a job or career. All activities, from making initial inquiries to developing a career plan, take place with the assistance of a licensed counselor and experienced staff. Areas of specialization include career counseling, assessment, decision-making and planning assistance, and competency and licensure testing. To assist in the job search and acquisition of information (including Web-based information), CES provides counseling, résumé development reference material and consultation, and other activities related to successfully obtaining employment. A Web-based job posting system is available for use by students and alumni and consists of all jobs posted with the college. Access fo the system is available 7 days a week, 24 hours a day, via the Internet. CES also assists in the placement of students in student employment jobs for the College.

Counseling and Advising Services include personal counseling to identify and assist in resolving students' 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.

Extension and Community Education provides LCC classes conducted in locations within a 40-mile radius of the College's main Lansing campus. A weekend degree program is also offered in certain locations. Information and services about distance learning, off-campus classes and extension centers is provided by the Extension and Community Education Office.

International Programs coordinates overseas study through such programs as the Japan Adventure and a network of sister college exchange relationships and offers ESL 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, a computerized catalog, interlibrary loan service, book renewals by phone, library orientations, and Internet access to the library catalog and electronic databases from on and off-campus. The library also has 600 study seats, including 33 multimedia and 15 group study rooms. The Multicultural Center advocates for minority students and facilitates the students' access to appropriate services to ensure their career and academic success. Programs within the Multicultural Center include:

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- The Limited English Proficiency Program—provides counseling, academic advising, registration assistance, financial and assistance, and intensive English training for students with limited English skills.
- Minority Outreach and Recruitment—assists in the recruitment of potential minority students: develops and maintains community contact with various minority organizations, clubs, and associations; identifies problems and barners of the minority student population and proposes appropriate responses; coordinates and plans special cultural/ethnic observations and celebrations; and serves as an advocate on behalf of minority students.
- Native American Leadership Program (NALP)—provides counseling and academic advising and assistance with admissions, registration, and financial aid for Native American students.
- Mentoring Program—provides mentors for first-semester students to advise and support them during their time of transition and adjustment to Lansing Community College.

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 forums: and opportunities to work on the staff of *The Lookout*, Lansing Community College's student newspaper. The Student Life Office also includes the Office of Volunteer Services which provides volunteer mentoring and service learning.

opportunities for students to nurture, promote, and instill the spirit of volunteerism. The Student Life Office also provides a housing resource listing service.

Tutorial Services, offered through Library Information Services, provides free tutoring to students enrolled in LCC courses. Professional tutor technicians and peer tutors help students develop course competencies and study skills. Individual appointments, study groups, supplemental instruction, and drop-in tutoring sessions are available on a first-come-first-served basis.

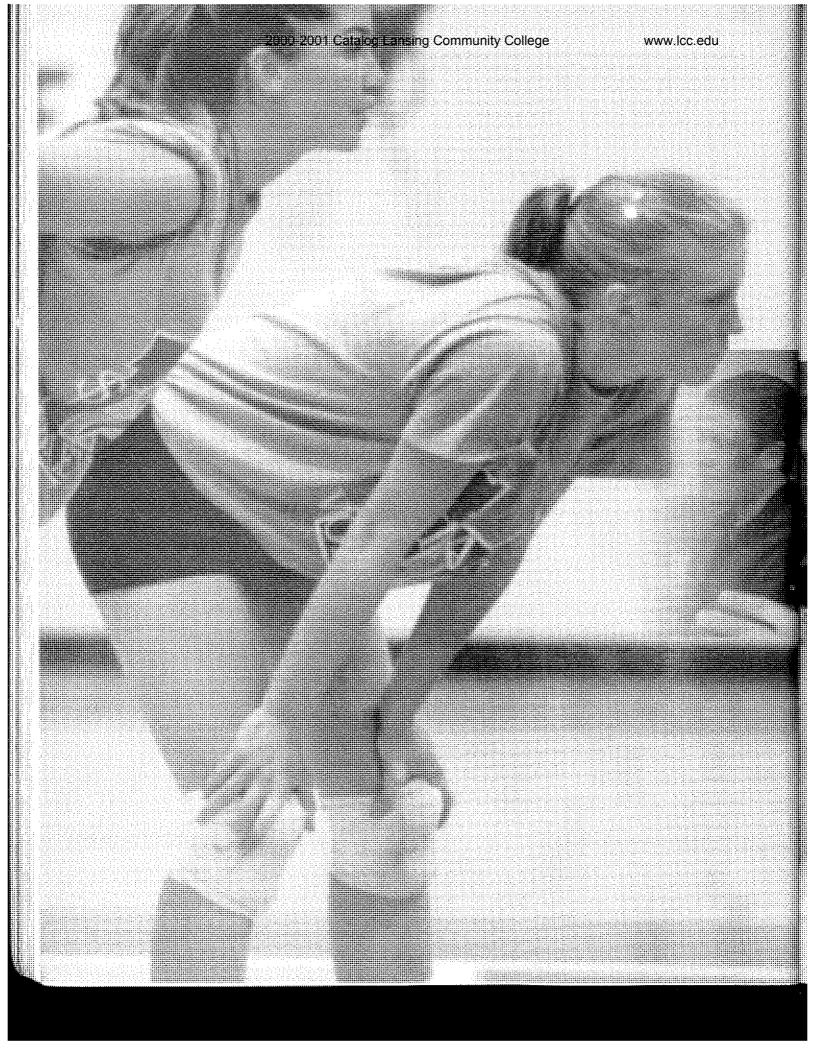
The Women's Resource Center offers services and programs in support of women and men at Lansing Community College, including financial assistance, displaced homemaker services, childcare assistance, and referral services.

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 Disability Support Services (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 their disability. Starting fall semester 2000, 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.

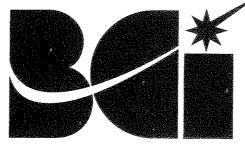


www.lcc.edu

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Business & Community

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BUSINESS & COMMUNITY INSTITUTE LANSING COMMUNITY COLLEGE

Training and Services for Business, Industry, Government and Professionals

Mission/Purpose of the Business & Community Institute

We deliver customized business and professional development services that contribute to our customers' success. We build partnerships for workforce, economic and community development.

What BCI Can Do for You

The Business & Community Institute (BCI) can work with your business or organization to develop the training and business solutions needed in today's business climate. BCI provides customized training and consulting in a wide variety of leadership, management, supervisory, and technical areas.

BCI's account executives will help you to identify training programs that will increase productivity and reduce costs at your company or that will help you to meet your staff members' professional continuing education goals. BCI specializes in designing custom training programs to meet the workforce development needs of a variety of organizations. Employees of more than 350 different organizations have used these services in the past year.

Types of Programs and Services Offered

BCI can provide your organization with a variety of programs, either noncredit/CEU-based courses and seminars or college credit courses selected from this Catalog. Other services of BCI include training needs assessment, job profiling and skill development, organization development consulting, and facilities rental and conference services. The Small Business Development Center offers counseling and training to help you start and maintain your own small business.

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

- Small Business Development
- Microcomputer Software Applications/Business Software
- Technical Skills
- Human Resource Development
- Quality Assurance and Productivity Improvement
- Nursing and Dental Continuing Education
- EMT/Paramedic and Allied Health Training
- Criminal Justice
- Leadership and Management Skills
- Computer-Aided Design and Computer-Aided Manufacturing (CAD/CAM)
- Continuing Medical Education for Physicians (New)

Where Programs Are Offered

Programs can be offered on-site at your place of business. Programs may also be held on the LCC campus in downtown Lansing, at the Howell Extension Center, at one of our suburban Learning Center sites, or at any suitable location arranged between BCI and the sponsoring employer. Our Laptop Lab has traveled to many companies to provide on-site computer software training. We can train on-site using company equipment for some customized technical training programs. You choose what best suits your needs.

Let BCI staff partner with you to meet your business needs in a costeffective way. Call the Business & Community Institute at (517) 483-1857. Or call LCC's toll-free line at 1-800-644-4LCC and ask to be connected to the BCI today.

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Degree and Certificate

Programs

EFFECTIVE FALL 2000-SUMMER 2005

This is primarily a transfer degree. It is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in such disciplines or subject areas as the following:

Pre-Accounting African American History American Studies	Fine Arts Foreign Language Geography History	Philosophy Political Science Psychology Policien
Art History Pre-Business Criminal Justice Pre-Economics	History Humanities International Studies Liberal Arts	Religion Secondary Education Social Science Sociology
Elementary Education	Literature	Speech Communication

The specific requirements for this degree are presented below. A minimum of 60 credits is required. This degree guide consists of General Education Requirements and a Subject Area Concentration which may include Limited Choice Electives. The curriculum is structured to enable students to satisfy the LCC General Education Core Requirements, as well as the MACRAO Transfer Agreement between two-year and four-year institutions in Michigan.

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

NOTE: Students should be aware that general education and subject area requirements vary from one college or university to another. Prior to beginning this curriculum, students should see an academic advisor or counselor in the Counseling and Advising Center (Room 2300, Gannon (GVT) Building, telephone number (517) 483-1904), obtain an appropriate transfer guide (also in the Counseling and Advising Center), and/or contact the school to which they will transfer for specific transfer institution requirements. (See Transfer Information in this section of the Catalog for a list of institutions for which transfer guides are available.)

In addition, students may request specific course substitutions by submitting a Course Substitution and Waiver Authorization for Degree Screening Form to the Liberal Studies Office of Instruction. Room 110, Arts and Sciences Building.

I. GENERAL EDUCATION REQUIREMENTS Minimum 35 credits

By following the directions in this section and earning at least a 2.0 in each course, students will automatically be able to satisfy the following general education requirements.

- Lansing Community College General Education Core Requirements in the areas of mathematics, global perspectives and diversity, writing, science and technology, and speech communication, (Complete information about LCC Core requirements can be found on page 23 of this catalog.)
- The MACRAO Transfer Agreement (Sea Transler Information in this section of the Catalog for a complete list of MACRAO requirements.)
- Additional General Education Requirements established specifically for this Associate in Arts Degree.

Students who complete Core courses other than those indicated below, and who wish to apply those credits toward the Associate in Arts Degree, should contact a faculty advisor or counselor in Room 2300 of the GVT Building, telephone number (517) 483-1904

Before selecting general education courses, students should consult II (SUB-JECT AREA CONCENTRATIONS AND LIMITED CHOICE ELECTIVES) below for possible recommendations and requirements. Credits for each course have been indicated in parenthesis.

(NOTE: In this section, courses that satisfy the LCC General Education Core-Requirements have an asterisk (*) preceding them)

1. English Composition

8 credits

- Completing any one of the courses listed in this section satisfies the LCC General Education Core Requirement in writing.
- * Complete one course from the following: "WRIT 121 (4) or "WRIT 131 (4), AND
- . Complete one course from the following: 'WRIT 122 (4). 'ENGL 122 (4). *WRIT 132 (4), *ENGL 132 (4). OR
- If WRIT 121 is waived, select ENGL 122 or WRIT 122, AND a second WRIT or ENGL course with a number of 200 or higher

2. Science and Mathematics

Minimum of 8 credits

Completing at least one asterisked (*) course from A or B will satisfy the LCC General Education Core Requirement in science and technology. Completing any asterisked (*) course from C will satisfy the LCC General Education Core Requirement in mathematics. If C is not chosen, then the LCC Core requirement for mathematics must be met by one of the options described on page 29 of this catalog

A minimum of 8 credits must be chosen from two of the three categories below (A, B, C).

- A. Physical Science: *ASTR 201 (4), *CHEM 135 (4), *CHEM 151 & 161 (5), GEOL 221 (4), GEOL 222 (4), GEOL 230 (4), *ISCI 121 (4); *ISCI 131 (4), *METR 220 (4), PHYS 201 & 225 (5), *PHYS 215 & 225 (6)
- B. Biological Science: ANAT 145 (4), ANAT 151 (3), ANAT 201 (4), BIOL 120 (4), BIOL 121 (4), BIOL 127 (4), BIOL 128 (4), *BIOL 210 (4), BIOL 260 (4), BIOL 265 (4), ISCI 122 (4), MICR 203 & 204 (4), PFHW 123 (3), "PHGY 202 (4)
- C. Mathematics and Statistics: *MATH 121 (4), *MATH 122 (3). *MATH 126 (5), MATH 128 (3). 'MATH 130 (3). 'MATH 141 (3), 'MATH 151 (4), *MATH 152 (4). *MATH 201 (3), STAT 170 (3), STAT 215 (4)

3. Social Science

Minimum of 8 credits Completing at least one asterisked (*) course from Category 3 (Social Science) OR Category 4 (Humanities) will satisfy the LCC General Education Core Requirement in Global Perspectives and Diversity.

- * Complete one course in Political Science from the following POLS 120 (4) or POLS 121 (4)
- Complete 4-6 credits from the following: ANTH 270 (3). ECON 120 (4) ECON 201 (3). ECON 202 (3), GEOG 120 (3), GEOG 200 (4). *POLS 260 (3), PSYC 200 (4), PSYC 202 (3), PSYC 203 (3). PSYC 205 (3). PSYC 250 (3), "SOCL 120 (4). SOCL 255 (3)

4. Humanities

8 credits Completing at least one asterisked (*) course from Category 3 (Social Science) OR Category 4 (Humanities) will satisfy the LCC General Education Core Requirement in Global Perspectives and Diversity.

- Complete one of the following combinations: HIST 211 and HIST 212 or 214, "PHIL 211 and "212, "HUMS 213 and "214. RELG 211 and 212, *ENGL 211 and *212. OF
- * Complete eight (8) credits from the list below in two different areas. (Note that MSU does not accept Foreign Language as meeting the MACRAO/ Integrative Studies Humanities requirement.)
- Art History: HUMS 120. *211, *212
- Foreign Language: FREN 201, 202, GRMN 201, 202, JAPN 201. 202, SPAN 201, 202
- History: HIST 150, 210, 211, 212, 214, 220, 230, 240, 250, 260
- Humanities, HUMS 160, *213, *214, 215
- Literature, ENGL 201, 202, 203, 1211, 1212, 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

5. Speech

3 credits

Complete the following course: "SPCH 120 (3)

II. SUBJECT AREA CONCENTRATIONS

AND LIMITED CHOICE ELECTIVES

Minimum of 25 credits

The following Subject Area Concentrations list the remaining required and recommended courses that will apply toward an Associate in Arts Degree. Some concentrations also contain Limited Choice Electives which are presented at the end of this section. Courses should be selected in consultation with an academic advisor or counselor to determine their transferability to a specific four-year school. Credits for each course have been indicated in parenthesis.

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PRE-ACCOUNTING

Curriculum Code: 0254

- 1. Complete ECON 201 and ECON 202 to satisfy part of the Social Science General Education Requirements.
- Complete MATH 121 to satisfy part of the Science and Mathematics General Education Requirements.
- 3. Complete the following required courses (15 credits):
 - ACCG 210 Principles of Accounting I (4)
 - ACCG 211 Principles of Accounting II (4)
 - MATH 141Calculus with Applications (3)STAT 215Intro to Probability and Stats (4)
- 4. Complete one of the following (3–4 credits): CISB 100 Intro to Computer Info Systems (3) CISB 120 Intro to Programming/Logic (4) CPSC 120 Introduction to Computers (3)
- Complete one of the following (3 credits): MATH 122 College Algebra II and Trig (3)
 - MATH 130 Finite Mathematics (3)
- Complete a minimum of 2-3 credits from the list of Limited Choice Electives at the end of this section.

AFRICAN AMERICAN HISTORY

Curriculum Code: 0137

- 1. Complete courses other than HIST 211, HIST 212, and HIST 214 to satisfy the Humanities General Education Requirement.
- 2. Complete the following required courses (20 credits):
 - HIST 150 African-American History (4)
 - HIST 211 U.S. History to 1877 (4)
 - HIST 212 U.S. History: 1877 to the Present (4)
 - HIST 214 African History (4)
 - HIST 260 Conflict & Revolution in South Africa (4)
- Complete a minimum of 7 credits from the following:
 ENGL 260 African-American Literature (4)
 SOCL 255 Contemporary Social Problems (3)
 Any foreign language with course numbers 121, 122, 201, or 202 (4)

AMERICAN STUDIES

Curriculum Code: 0142

- 1. Complete courses *other than* HIST 211, HIST 212, and HIST 214 to satisfy the Humanities General Education Requirement.
- 2. Complete the following required courses (20 credits):

ENGL 255	American Literature I (4)
ENGL 256	American Literature II (4)
HIST 211	U.S. History to 1877 (4)
HIST 212	U.S. History: 1877 to Present (4)
HUMS 215	American Civilization (4)

- 3. Complete a minimum of 8 credits from the following: ENGL 260 African-American Literature (4) HIST 150 African-American History (4) HIST 220 Michigan History (4)
 - POLS 120 American Political System (4)

ART HISTORY

Curriculum Code: 0746

Curriculum Code: 0232

- 1. Complete HIST 211 or HUMS 213 and complete HIST 212, HIST 214 or HUMS 214 to satisfy the Humanities General Education Requirement.
- 2. Complete the following required courses (20 credits):
 - HUMS 160 Mythology (4) HUMS 211 History of Art I (4) HUMS 212 History of Art II (4)
 - RELG 211 World Religions I (4) RELG 212 World Religions II (4)
- 3. Complete a minimum of 8 credits from the following: ENGL 211 World Literature I (4)
 - ENGL 212 World Literature II (4)
 - HUMS 120 Western Art and Music History (4)
 - Any foreign language with course numbers 121, 122, 201, or 202 (4)

PRE-BUSINESS

- 1. Complete ECON 201 and ECON 202 in addition to POLS 120 or POLS 121 to satisfy the Social Science General Education Requirement.
- 2. Complete MATH 121 to satisfy part of the Science and Mathematics General Education Requirement.
- 3. Complete the following required courses (11 credits): ACCG 210 Principles of Accounting I (4) ACCG 211 Principles of Accounting II (4) BUSN 118 Introduction to Business (3)
- 4. Complete one of the following (3 credits): CISB 100 Intro to Computer Info Systems (3) CPSC 120 Introduction to Computers (3)
- 5. Complete one of the following (3-4 credits):

ECON 213	U.S. Economic/Business History (3)
MATH 141	Calculus with Applications (3)
MATH 151	Calculus I (4)
PSYC 200	Introduction to Psychology (4)
SOCL 120	Introduction to Sociology (4)
STAT 215	Intro to Probability and Stats (4)

 Complete a minimum of 5–6 credits from the list of Limited Choice Electives at the end of this section.

CRIMINAL JUSTICE

Curriculum Code: 0146

- 1. Complete the following required courses (15 credits):
 - CJUS 101
 Intro to Criminal Justice (3)

 CJUS 102
 Crime Causes and Conditions (3)

 CJUS 103
 Criminal Law (3)

 CJUS 106₁₀₀
 Intro to Juvenile Justice (3)
 - CJUS 131 Introduction to Corrections (3)
- 2. Complete a minimum of **10 credits** from the following: CJUS 255 Human Relations/Criminal Just (3)
 - PSYC 200 Introduction to Psychology (4)
 - PSYC 202Psychology of Personality (3)PSYC 203Social Psychology (3)
 - PSYC 205 Human Growth and Development (3)
 - PSYC 250 Abnormal Psychology (3)
 - SOCL 120 Introduction to Sociology (4)
 - SOCL 255 Contemporary Social Problems (3)

SOCL 260 Minority Groups (3)

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PRE-ECONOMICS

Curriculum Code: 0230

- 1. Complete ECON 201 and ECON 202 to satisfy part of the Social Science General Education Requirements.
- 2. Complete MATH 121 to satisfy part of the Science and Mathematics General Education Requirements.
- 3. Complete the following required courses (6 credits): CPSC 120 Introduction to Computers (3) MATH 122 College Algebra II and Trig (3)
- 4. Complete a minimum of **17 credits** from the following: ACCG 210 Principles of Accounting **1** (4)

ACCG 211	Principles of Accounting II (4)
ECON 213	U.S. Economic/Business History (3)
MATH 141	Calculus with Applications (3)
MATH 151	Calculus I (4)
MATH 152	Calculus II (4)
MATH 253	Calculus III (4)
MATH 254	Intro: Differential Equations (3)
MATH 260	Linear Algebra (3)
PSYC 200	Introduction to Psychology (4)
SOCL 120	Introduction to Sociology (4)
STAT 215	Intro to Probability and Stats (4)
Any foreign la	nguage with course numbers 121, 122, 201, or 202 (4).
A second scie	nce course so that you complete both a biological sci-
ence and a ph	nysical science (4–6)

ELEMENTARY EDUCATION

Curriculum Code: 0747

- 1. Complete POLS 120 and SOCL 120 to satisfy part of the Social Science General Education Requirement.
- 2. Complete the following required courses (21 credits): ARTS 240 Art for Elementary Teachers (3) EDUC 201 Teacher Education Practicum (2) EDUC 220 Introduction to Education (3)

	macuucaon to Europation (b)	
MATH 201	Math for Liberal Arts I (3)	
MUSC 200	Music Fund for Elem Teachers (3)	
PSYC 200	Introduction to Psychology (4)	7
PSYC 204	Educational Psychology (3)	ſ

3.	Complete 4-6 cre	dits from the following list:
	ANTH 270	Cultural Anthropology (3)
	GEOG 121	Physical Geography (3)
•	GEOG 200	World Regional Geography (4)
	ENGL 220	Science Fiction (4)
÷	ENGL 255	American Literature I (4)
	ENGL 256	American Literature II (4)
	ENGL 267	British Literature II (4)
	PSYC 205	Human Growth and Development (3)
	PSYC 221	Child Psychology (3)
	SOCL 260	Minority Groups (3)

FINE ARTS

Curriculum Code: 0748

- 1. Complete HUMS 211 and HUMS 212 to satisfy the Humanities General Education Requirement.
- 2. Complete the following required courses (12 credits):
 - ARTS 102 2-Dimensional Design (3)
 - ARTS 103 3-Dimensional Design (3)
 - ARTS 131 Drawing I (3) ARTS 132 Life Drawing (3)

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- 3. Complete 8 credits from the following:
 - Printmaking I (4) **ARTS 140 ARTS 141** Printmaking II (4) Screen Printing I (4) ARTS 145 Screen Printing II (4) **ARTS 146** ARTS 200 Painting I (4) Painting II (4) **ABTS 201** ARTS 204 Watercolor I (4) ARTS 205 Watercolor II (4)
- Complete a minimum of 7 credits from the list of Limited Choice Electives at the end of this section.

FOREIGN LANGUAGE

Curriculum Code: 0132

1. Complete the following required course (3 credits): SPCH 280 Intercultural Communication (3)

2. Complete one of the following four choices (A, B, C, D) (16 credits):

Α.	FREN 121	Elementary French I (4)
	FREN 122	Elementary French II (4)
	FREN 201	Intermediate French I (4)
	FREN 202	Intermediate French II (4)
8.	GRMN 121	Elementary German I (4)
	GRMN 122	Elementary German II (4)
	GRMN 201	Intermediate German I (4)
	GRMN 202	Intermediate German II (4)
C.	JAPN 121	Elementary Japanese I (4)
	JAPN 122	Elementary Japanese II (4)
	JAPN 201	Intermediate Japanese I (4)
	JAPN 202	Intermediate Japanese II (4)
D.	SPAN 121	Elementary Spanish I (4)
	SPAN 122	Elementary Spanish II (4)
	EDAN 201	Intermediate Spanish I (4)

- SPAN 201 Intermediate Spanish I (4) SPAN 202 Intermediate Spanish II (4)
- Complete a minimum of 8 credits of any foreign language with course numbers 121, 122, 201, or 202 other than those chosen as the major language of concentration from the choices in Number 2 above.

GEOGRAPHY

Curriculum Code: 0749

- Complete GEOG 200 to satisfy part of the Social Science General Education Requirement.
- 2. Complete the following required courses (9 credits):
 - GEOG 120 Introduction to Geography (3) GEOG 121 Physical Geography (3)
 - GEOG 202 Geography of North America (3)
- 3. Complete a minimum of 16 credits from the following:
 - **ANTH 270** Cultural Anthropology (3) ECON 120 Power, Authority and Exchange (4) GEOG 203 Economic Geography (3) Principles Geographic Info Sys (3) GRET 205 **METR 220** Introduction to Meteorology (4) **POLS 260** Comparative Political Systems (3) International Relations (3) **POLS 270 SOCL 120** Introduction to Sociology (4)
 - STAT 170 Introduction to Statistics (3)

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

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HISTORY

3

Curriculum Code: 0197

- Complete courses other than HIST 211, HIST 212, and HIST 214 to satisfy the Humanities General Education Requirement.
- 2. Complete the following required courses (12 credits): HIST 211 U.S. History to 1877 (4)

1001211	0.0.(11310) / 10 1017 (4)	
HIST 212	U.S. History: 1877 to Present (4)	
HIST 214	African History (4)	
Complete a minir	num 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 & Beyolu Southrn Africa (4)	

Religions of East Asia (4)

HUMANITIES

RELG 250

Curriculum Code: 0119

- 1. Complete courses other than HUMS 213 and HUMS 214 to satisfy the Humanities General Education Requirement.
- 2. Complete the following required courses (8 credits): HUMS 213 World Civilizations I (4) HUMS 214 World Civilizations II (4)
- 3. Complete a minimum of 20 credits from the following:

ENGL 201	Introduction to Poetry (4)
ENGL 202	Introduction to Drama (4)
ENGL 203	Introduction to Prose (4)
ENGL 211	World Literature I (4)
ENGL 212	World Literature II (4)
ENGL 255	American Literature I (4)
ENGL 256	American Literature II (4)
HIST 211	U.S. History to 1877 (4)
HIST 212	U.S. History: 1877 to Present (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)

INTERNATIONAL STUDIES

Curriculum Code: 0252

- 1. Complete GEOG 200 and POLS 120 to satisfy the Social Science General Education Requirement.
- 2. Complete HUMS 213 end HUMS 214 to satisfy the Humanities General Education Requirement and the Global Diversity Core Requirement.
- 3. Complete one of the following (3 credits): POLS 260 Comparative Political Systems (3) POLS 270 International Relations (3)
- Complete 8 credits of any foreign lenguage with course numbers 121, 122, 201, or 202.

ASSOCIATE IN ARTS DEGREE

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5,	Complete a minim	um of 14 credits from the following:
	ANTH 270	Cultural Anthropology (3)
	ANTH 271	Medical Anthropology (3)
	ECON 120	Power, Authority and Exchange (4)
	ECON 201	Principles of Economics-Micro (3)
	ECON 202	Principles of Economics-Macro (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)
	PSYC 200	Introduction to Psychology (4)
	RELG 211	World Religions I (4)
	RELG 212	World Religions II (4)
	SOCL 120	Introduction to Sociology (4)
	SOCL 185	Intro to African-American Study (3)
	SOCL 260	Minority Groups (3)
	SOCL 280	Intro to Japanese Culture (3)

LIBERAL ARTS

Curriculum Code: 0251

Complete a minimum of **25 credits** from the list of Limited Choice Electives at the end of this section. A maximum of **6** of those credits may come from any courses numbered 110 to 119 or with course codes ENRI, READ, or SPEL. The following courses are recommended choices.

BIOL 210	Natural Resource Conservation (4)
CHEM 135	Chemistry in Society (4)
CPSC 120	Introduction to Computers (3)
ENGL 256	American Literature II (4)
MATH 201	Math for Liberal Arts I (3)
PHIL 152	Introduction to Ethics (4)
PSYC 200	introduction to Psychology (4)
SOCL 120	introduction to Sociology (4)
SPCH 280	Intercultural Communication (3)
Any foreign la	nguage course with number 121, 122, 201, or 202 (4)

LITERATURE

Curriculum Code: 0124

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1. Complete the following required courses (12 credits):
       ENGL 201
                     Introduction to Poetry (4)
       ENGL 202
                     Introduction to Drama (4)
       ENGL 203
                     Introduction to Prose (4)
2. Complete a minimum of 16 credits from one of the following choices (A,B):
   A. ENGL 255
                     American Literature I (4)
       ENGL 256
                     American Literature II (4)
       ENGL 260
                     African-American Literature (4)
       ENGL 266
                     British Literature I (4)
                     British Literature II (4)
       ENGL 267
       ENGL 290
                     Shakespeare (4)
                     Mythology (4)
       HUMS 160
                     Intro: Logic & Critical Think (4)
       PHIL 151
       RELG 241
                     Old Testament Literature (4)
       Any foreign language with course numbers 121, 122, 201, or 202 (4)
   B. EDUC 201
                     Teacher Education Practicum (2)
       EDUC 220
                     Introduction to Education (3)
       ENGL 255
                     American Literature I (4)
       ENGL 256
                     American Literature II (4)
       PSYC 200
                     Introduction to Psychology (4)
                     Educational Psychology (3)
       PSYC 204
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PHILOSOPHY	Curriculum Code: 0159	PSYCHOLOGY	Curriculum Code:.02
1. Complete courses <i>other than</i> PHIL 211 and	PHIL 212 to satisfy the Hu-	-	200 to satisfy part of the Social Science General Ec
manities General Education Requirement.		cation Requireme	in,
2. Complete the following required courses (12 PHIL 151 Intro: Logic & Critical Thi PHIL 211 World Philosophies I (4)		2. Complete MATH 1 eral Education Re	21 to satisfy part of the Science and Mathematics Ge quirement.
PHIL 212 World Philosophies II (4)		 Complete one of t PSYC 203 	he following two courses (3 credits) : Social Psychology (3)
 Complete a minimum of 16 credits from the HUMS 120 Western Art and Music H 		PSYC 204	Educational Psychology (3)
HUMS 213 World Civilizations I (4) (4. Complete one of t	he following three courses (3 credits):
HUMS 214 World Civilizations II (4)	(See Note 1)	PSYC 205	Human Growth and Development (3)
HUMS 225 Grt Lake Native Amer: H		PSYC 221	Child Psychology (3)
PHIL 152 Introduction to Ethics (4) PHIL 153 Knowledge and Reality (PSYC 222	Adolescent Psychology (3)
PHIL 260 Contemporary Ethical Pr	oblems (4)		he following two courses (3 credits):
RELG 250 Religions of East Asia (4 Any foreign language with course numb		PSYC 209 PSYC 210	Cognitive Psychology (3) Biological Psychology (3)
NOTES	Asia	6 Complete encloft	he following two courses (3 credits):
1. HUMS 213 and HUMS 214 may be used to	fulfill the General Education	PSYC 202	Psychology of Personality (3)
Requirement if not already selected to fulfill cation Requirement listed in number 1 abov	the Humanities General Edu-	PSYC 250	Abnormal Psychology (3)
 Students may elect to take either PHIL 152 		Complete a minim	um of 10 credits from the following:
-		ANTH 270	Cultural Anthropology (3)
		ANTH 271	Medical Anthropology (3)
POLITICAL SCIENCE	Curriculum Code: 0750	CPSC 120	Introduction to Computers (3)
		POLS 240 PSYC 175	Introduction to Public Policy (3) Psychology of Death: A Preparation for Living (3)
1. Complete POLS 120 and SOCL 120 to sati	isfy the Social Science Gen-	PSYC 240	Psychology of Human Sexuality (3)
eral Education Requirement.	· ·	SOCL 120	Introduction to Sociology (4)
		SOCL 254	Marriage and Family (3)
2. Complete HIST 211 and 212 to satisfy the	Humanities General Educa-	STAT 170	Introduction to Statistics (3)
tion Requirement.		STAT 215 Any foreign lai	Intro to Probability and Stats (4) nguage with course numbers 121, 122, 201, or 202
3. Complete the following required courses (7			
POLS 121 State and Local Governme	nent (4)		
	nent (4)	RELIGION	ین کار Curriculum Code: 07
POLS 121 State and Local Government POLS 260 Comparative Political Sy 4. Complete a minimum of 18 credits from the	nent (4) stems (3) e following:	· · · ·	
POLS 121 State and Local Government POLS 260 Comparative Political Sy 4. Complete a minimum of 18 credits from the (Note: If STAT 170 is selected, then select M Science and Mathematics General Education	nent (4) stems (3) e following: ATH 121 to satisfy part of the on Requirement.)	1. Complete courses	
 POLS 121 State and Local Government POLS 260 Comparative Political Sy 4. Complete a minimum of 18 credits from the (Note: If STAT 170 is selected, then select M Science and Mathematics General Education CPSC 120 Introduction to Computer 	nent (4) stems (3) e following: ATH 121 to satisfy part of the on Requirement.) rs (3)	 Complete course: Humanities Gener 	s other than RELG 211 and RELG 212 to satisfy ral Education Requirement.
 POLS 121 State and Local Government POLS 260 Comparative Political Sy 4. Complete a minimum of 18 credits from the (Note: If STAT 170 is selected, then select M Science and Mathematics General Education) 	nent (4) stems (3) ATH 121 to satisfy part of the on Requirement.) rs (3) change (4)	 Complete course: Humanities Gener 	s other than RELG 211 and RELG 212 to satisfy
 POLS 121 State and Local Government POLS 260 Comparative Political Sy 4. Complete a minimum of 18 credits from the (Note: If STAT 170 is selected, then select M Science and Mathematics General Education CPSC 120 Introduction to Computer ECON 120 Power, Authority and Exc 	nent (4) stems (3) ATH 121 to satisfy part of the on Requirement.) rs (3) change (4) -Micro (3)	 Complete course: Humanities Gener Complete the folio 	s other than RELG 211 and RELG 212 to satisfy al Education Requirement. wing required courses (8 credits):
POLS 121 State and Local Governmer POLS 260 POLS 260 Comparative Political Sy 4. Complete a minimum of 18 credits from the (Note: If STAT 170 is selected, then select M Science and Mathematics General Education CPSC 120 Introduction to Computer ECON 120 Power, Authority and Exc ECON 201 Principles of Economics-ECON 202 Principles of Economics-GEOG 200	nent (4) stems (3) ATH 121 to satisfy part of the on Requirement.) rs (3) shange (4) -Micro (3) -Macro (3) ihy (4)	 Complete courses Humanities Gener Complete the folio RELG 211 RELG 212 	s other than RELG 211 and RELG 212 to satisfy al Education Requirement. wing required courses (8 credits): World Religions I (4) World Religions II (4)
POLS 121 State and Local Governme POLS 260 Comparative Political Sy 4. Complete a minimum of 18 credits from the (Note: If STAT 170 is selected, then select M Science and Mathematics General Education CPSC 120 Introduction to Computer ECON 120 Power, Authority and Exc ECON 201 Principles of Economics-ECON 202 Principles of Economics-GEOG 200 World Regional Geograp POLS 205 Government Internship (nent (4) stems (3) ATH 121 to satisfy part of the on Requirement.) rs (3) -Micro (3) -Macro (3) hy (4) 3)	 Complete courses Humanities Gener Complete the folio RELG 211 RELG 212 Complete a minim 	s other than RELG 211 and RELG 212 to satisfy al Education Requirement. wing required courses (8 credits): World Religions I (4) World Religions II (4) um of 19–20 credits from the following:
POLS 121 State and Local Governmer POLS 260 Comparative Political Sy 4. Complete a minimum of 18 credits from the (Note: If STAT 170 is selected, then select M Science and Mathematics General Education CPSC 120 Introduction to Computer ECON 120 Power, Authority and Exc ECON 201 Principles of Economics-ECON 202 Principles of Economics-GEOG 200 World Regional Geograp POLS 205 Government Internship (POLS 240 Introduction to Public Po	nent (4) stems (3) ATH 121 to satisfy part of the on Requirement.) rs (3) change (4) Micro (3) -Macro (3) thy (4) 3)	 Complete course: Humanities Gener Complete the folio RELG 211 RELG 212 Complete a minim ANTH 270 	s other than RELG 211 and RELG 212 to satisfy al Education Requirement. wing required courses (8 credits): World Religions I (4) World Religions II (4) um of 19–20 credits from the following: Cultural Anthropology (3)
POLS 121 State and Local Governmer POLS 260 Comparative Political Sy 4. Complete a minimum of 18 credits from the (Note: If STAT 170 is selected, then select M Science and Mathematics General Education CPSC 120 Introduction to Computer ECON 120 Power, Authority and Exc ECON 201 Principles of Economics- ECON 202 Principles of Economics- GEOG 200 World Regional Geograp POLS 205 Government Internship (nent (4) stems (3) ATH 121 to satisfy part of the on Requirement.) rs (3) change (4) -Micro (3) -Macro (3) -Macro (3) ity (4) 3) ficy (3) t Grps (3)	 Complete courses Humanities Gener Complete the folio RELG 211 RELG 212 Complete a minim 	s other than RELG 211 and RELG 212 to satisfy al Education Requirement. wing required courses (8 credits): World Religions I (4) World Religions II (4) um of 19–20 credits from the following:
 POLS 121 State and Local Governmer POLS 260 Comparative Political Sy 4. Complete a minimum of 18 credits from the (Note: If STAT 170 is selected, then select M Science and Mathematics General Education CPSC 120 Introduction to Computer ECON 120 Power, Authority and Exc ECON 201 Principles of Economics-ECON 202 Principles of Economics-GEOG 200 World Regional Geograp POLS 205 Government Internship (POLS 240 Introduction to Public Po POLS 250 Amer Pol Parties/Interes 	nent (4) stems (3) ATH 121 to satisfy part of the an Requirement.) rs (3) change (4) -Micro (3) -Macro (3) -Macro (3) ity (4) 3) licy (3) t Grps (3) 3)	 Complete courses Humanities Gener Complete the follo RELG 211 RELG 212 Complete a minim ANTH 270 PHIL 152 	s other than RELG 211 and RELG 212 to satisfy that Education Requirement. wing required courses (8 credits): World Religions I (4) World Religions II (4) un of 19–20 credits from the following: Cultural Anthropology (3) Introduction to Ethics (4) <i>(See Note 1)</i>
POLS 121 State and Local Governmer POLS 260 Comparative Political Sy 4. Complete a minimum of 18 credits from the (Note: If STAT 170 is selected, then select M Science and Mathematics General Education CPSC 120 Introduction to Computer ECON 120 Power, Authority and Exx ECON 201 Principles of Economics-ECON 202 Principles of Economics-GEOG 200 World Regional Geograp POLS 265 Government Internship (POLS 240 POLS 250 Amer Pol Parties/Interes POLS 270 POLS 280 Politics & Government of POLS 280 Politics & Government of POLS 280 POLS 280 Politics & Government of POLS 280 Politics & Government of POLS 280	nent (4) stems (3) ATH 121 to satisfy part of the on Requirement.) rs (3) Shange (4) -Micro (3) -Macro (3) -Macro (3) hy (4) 3) t Grps (3) t Japan (3) gy (4)	 Complete course: Humanities Gener Complete the folio RELG 211 RELG 212 Complete a minim ANTH 270 PHIL 152 PHIL 260 RELG 241 RELG 242 	s other than RELG 211 and RELG 212 to satisfy al Education Requirement. wing required courses (8 credits): World Religions I (4) World Religions II (4) um of 19–20 credits from the following: Cultural Anthropology (3) Introduction to Ethics (4) (See Note 1) Contemporary Ethical Problems (4) (See Note 1) Old Testament Literature (4)
POLS 121 State and Local Governmer POLS 260 Comparative Political Sy 4. Complete a minimum of 18 credits from the (Note: If STAT 170 is selected, then select M Science and Mathematics General Education CPSC 120 Introduction to Computer ECON 120 Power, Authority and Exx ECON 201 Principles of Economics-ECON 202 Principles of Economics-GEOG 200 World Regional Geograp POLS 250 Amer Pol Parties/Interes POLS 250 Amer Pol Parties/Interes POLS 280 Politics & Government of PSYC 200 Introduction to Psycholog SOCL 255	nent (4) stems (3) ATH 121 to satisfy part of the on Requirement.) rs (3) Shange (4) -Micro (3) -Macro (3) -Macro (3) hy (4) 3) t Grps (3) t Japan (3) gy (4)	 Complete course: Humanities Gener Complete the folio RELG 211 RELG 212 Complete a minim ANTH 270 PHIL 152 PHIL 260 RELG 241 RELG 242 RELG 250 	s other than RELG 211 and RELG 212 to satisfy al Education Requirement. wing required courses (8 credits): World Religions I (4) World Religions II (4) um of 19–20 credits from the following: Cultural Anthropology (3) Introduction to Ethics (4) <i>(See Note 1)</i> Contemporary Ethical Problems (4) <i>(See Note 1)</i> Old Testament Literature (4) New Testament Literature (4) Religions of East Asia (4)
POLS 121 State and Local Governmer POLS 260 Comparative Political Sy 4. Complete a minimum of 18 credits from the (Note: If STAT 170 is selected, then select M Science and Mathematics General Education CPSC 120 Introduction to Computer ECON 120 Power, Authority and Exx ECON 201 Principles of Economics- ECON 202 Principles of Economics- GEOG 200 World Regional Geograp POLS 205 Government Internship (POLS 240 POLS 250 Amer Pol Parties/Interes POLS 280 Politics & Government of PSYC 200 Introduction to Psycholog, SOCL 255 Contemporary Social Prescient of PSYC 200 Minority Groups (3)	nent (4) stems (3) e following: ATH 121 to satisfy part of the on Requirement.) rs (3) -Macro (3) -Macro (3) -Macro (3) -Macro (3) ity (4) 3) flipy (3) t Grps (3) 3) f Japan (3) gy (4) oblems (3)	 Complete course: Humanities Gener Complete the folio RELG 211 RELG 212 Complete a minim ANTH 270 PHIL 152 PHIL 260 RELG 241 RELG 242 RELG 250 	wing required courses (8 credits) : World Religions I (4) World Religions II (4) um of 19–20 credits from the following: Cultural Anthropology (3) Introduction to Ethics (4) <i>(See Note 1)</i> Contemporary Ethical Problems (4) <i>(See Note 1)</i> Old Testament Literature (4) New Testament Literature (4)
POLS 121 State and Local Governmer POLS 260 Comparative Political Sy 4. Complete a minimum of 18 credits from the (Note: If STAT 170 is selected, then select M Science and Mathematics General Education CPSC 120 Introduction to Computer ECON 120 Power, Authority and Exx ECON 201 Principles of Economics-ECON 202 Principles of Economics-GEOG 200 World Regional Geograp POLS 250 Amer Pol Parties/Interess POLS 250 Amer Pol Parties/Interess POLS 280 Politics & Government of PSYC 200 Introduction to Psycholog SOCL 255	nent (4) stems (3) ATH 121 to satisfy part of the on Requirement.) rs (3) -Macro (3) -Macro (3) -Macro (3) hy (4) 3) licy (3) t Grps (3) 3) f Japan (3) gy (4) oblems (3)	 Complete course: Humanities Gener Complete the folio RELG 211 RELG 212 Complete a minim ANTH 270 PHIL 152 PHIL 260 RELG 241 RELG 242 RELG 250 	s other than RELG 211 and RELG 212 to satisfy that Education Requirement. wing required courses (8 credits): World Religions I (4) World Religions II (4) uum of 19–20 credits from the following: Cultural Anthropology (3) Introduction to Ethics (4) (See Note 1) Contemporary Ethical Problems (4) (See Note 1) Old Testament Literature (4) New Testament Literature (4) Religions of East Asia (4)

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Curriculum Code: 0753

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SECONDARY EDUCATION

Curriculum Code: 0752

- Complete POLS 120 and SOCL 120 to satisfy the Social Science General Education Requirement.
- 2. Complete the following required courses (12 credits):
 - EDUC 201 Teacher Education Practicum (2) EDUC 220 Introduction to Education (3)
 - EDUC 220 Introduction to Education (3) PSYC 200 Introduction to Psychology (4)
 - PSYC 204 Educational Psychology (3)
- Complete a minimum of 13 credits from the list of Limited Choice Electives at the end of this section in the subject area in which you plan to teach.

SOCIAL SCIENCE

Curriculum Code: 0121

- Complete SOCL 120 to satisfy part of the Social Science General Education Requirement.
- 2. Complete the following required courses (11 credits):
 - ECON 201 Principles of Economics Micro (3) GEOG 200 World Regional Geography (4) PSYC 200 Introduction to Psychology (4)
- Complete one course from two of the following choices (A, B, C, D, E) (6 credits):
 - A: ECON 202 Principles of Economics Macro (3)
 - B. GEOG 120 Introduction to Geography (3) GEOG 121 Physical Geography (3) GEOG 202 Geography of North America (3)
 - C. POLS 240 Introduction to Public Policy (3) POLS 250 Amer Pol Parties/Interest Grps (3) POLS 260 Comparative Political Systems (3) POLS 270 International Relations (3)
 - D. PSYC 202 Psychology of Personality (3)
 PSYC 203 Social Psychology (3)
 PSYC 204 Educational Psychology (3)
 PSYC 205 Human Growth and Development (3)
 PSYC 221 Child Psychology (3)
 - PSYC 222 Adolescent Psychology (3) PSYC 250 Abnormal Psychology (3)
 - E. ANTH 270 Cultural Anthropology (3) ANTH 271 Medical Anthropology (3) ANTH 275 Physical Anthr and Archeology (3) ANTH 276 World Archeology (3) SOCL 254 Marriage and Family (3) SOCL 255 Contemporary Social Problems (3) SOCL 260 Minority Groups (3)
- Complete a minimum of 8 credits numbered 120 or higher from 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.

SOCIOLOGY

- 1. Complete POLS 120 and SOCL 120 to satisfy the Social Science General Education Requirement and the Global Diversity Core Requirement.
- 2. Complete the following required courses (9 credits): **ANTH 270** Cultural Anthropology (3) PSYC 203 Social Psychology (3) SOCL 255 Contemporary Social Problems (3) 3. Complete a minimum of 16 credits from the following: ANTH 271 Medical Anthropology (3) ANTH 275 Physical Anthropology (3) ANTH 276 World Archaeology (3) CJUS 102 Crime Causes and Conditions (3) **CPSC 120** Introduction to Computers (3)

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ECON 120	Power, Authority and Exchange (4)
ECON 201	Principles of Economics-Micro (3)
ECON 202	Principles of Economics-Macro (3)
GEOG 200	World Regional Geography (4)
GEOG 203	Economic Geography (3)
GERO 100	Introduction to Aging (3)
MATH 121	College Algebra I (4)
POLS 240	Introduction to Public Policy (3)
POLS 260	Comparative Political Systems (3)
POLS 270	International Relations (3)
PSYC 200	Introduction to Psychology (4)
PSYC 203	Social Psychology (3)
SOCL 254	Marriage and Family (3)
SOCL 260	Minority Groups (3)
SOCL 280	Introduction to Japanese Culture (3)
STAT 170	Introduction to Statistics (3)
Any foreign lar	nguage with course numbers 121, 122, 201, or 202 (4)

SPEECH COMMUNICATION

Curriculum Code: 0136

- Complete SOCL 120 to satisfy part of the Social Science General Education Requirement.
- 2. Complete the following required courses (9 credits): SPCH 130 Fundamentals of Public Speaking (3) SPCH 140 Interpersonal Communication (3) SPCH 280 Intercultural Communication (3)
- SPCH 110
 Oral Communic in the Workplace (3)

 SPCH 260
 Nonverbal Communication (3)

 SPCH 270
 Mass Communication (3)
- 4. 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) POLS 260 Comparative Political Systems (3) PSYC 200 Introduction to Psychology (4)
 - Any foreign language with course numbers 121, 122, 201, or 202 (4)

2000-2001 Catalog Lansing Community College

LIMITED CHOICE ELECTIVES FOR ASSOCIATE IN ARTS DEGREE

Some concentrations include limited choice electives. Those limited choice electives must be selected from the following:

1. Course ANAT ANTH ASTR BIOL CHEM	CPSC ECON EDUC ENGL	GEOG	HUMS ISCI JAPN JRNL	MATH METR MICR	PHIL PHYS POLS PSYC	RELG	s listed below: STAT WRIT
2. Course ACCG ARTS BUSN CHDV CISB CJUS	2 2 1 1 1 1 1 1 1	210, 211, 280, 290 102, 103, 171, 175, 118, 201, 101, 111, 100, 120,	220, 22 131, 13 200, 20 250 120, 12 122, 17 103, 10	2, 137, 1 1, 203, 2 1, 188, 1 0, 175, 1	40, 141. 204, 205, 89, 220, 80, 250,	145, 146 206, 253 221 260, 280	

DANC	100, 101, 102, 103, 104, 111, 112, 113, 114, 126, 132, 134, 165, 191, 201, 202, 203, 204, 211, 212
EMSA	100
GRMN	115, 116
HUSE	240, 241, 242, 244
IMAG	101
LEGL	215, 216
MATH	112
MGMT	225
MKTG	140, 200, 202, 221
MUSC	101, 102, 108, 119, 123, 133, 138, 139, 144, 145, 155,
	156, 163, 164, 168, 169, 179, 180, 182, 183, 188, 193,
	194, 199, 200, 240, 241, 246, 247, 253, 263, 264, 270,
	276, 280, 293, 294, 297
SIGN	161, 162, 163, 164
SOWK	101
THEA	110, 120, 181, 210, 234, 285, 295, 296
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 A maximum of two credit hours from courses with any of the course codes listed below: PFAQ PFDA PFHC PFIS PFPR

PECW PEET PEHW PEOA PETS

ASSOCIATE IN SCIENCE DEGREE 2000-2001 Catalog Lansing Community College www.lcc.edu

ASSOCIATE IN SCIENCE DEGREE

EFFECTIVE FALL 2000 - SUMMER 2005

This is primarily a transfer degree. It is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in such disciplines or subject areas as tha following:

Biology Chemistry Computer Science Environmantal Science

Geoscience Mathematics/Physics Medical Pre-Professional Pre-Engineering

The specific requirements for this degree are presented below. A minimum of 60 credits is required. This degree guide consists of General Education Requirements and a Subjact Area Concentration. The curriculum is structured to enable students to satisfy the LCC General Education Core Requirements, as well as the MACRAO Transfer Agreement batween two-year and four-year institutions in Michigan.

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

NOTE: Students should be aware that general education and subject area requirements vary from one college or university to another. Prior to beginning this curriculum, students should see an academic advisor or counselor in the Counseling and Advising Center (Room 2300, Gannon (GVT) Building, telephone number (517) 483-1904), obtain an appropriate transfer guide (also in the Counseling and Advising Center), and/or contact the school to which they will transfer for specific transfer institution requirements. (See Transfer Information in this section of the Catalog for a list of institutions for which transfer guides are available).

In addition, students may request specific course substitutions by submitting a Course Substitution and Waiver Authorization for Degree Screening Form to the Liberal Studies Office of Instruction, Room 110 of the Arts and Sciencas Building.

I. GENERAL EDUCATION REQUIREMENTS Minimum of 35 credits

By following the directions in this section and earning at least a 2.0 in each course, students will automatically be able to satisfy the following general education requirements:

- Lansing Community College General Education Core Requirements in the areas of mathematics, global perspectives and diversity, writing, science and technology, and spaech communication. (Complete information about LCC Core requirements can be found on page 22 of this catalog.)
- The MACRAO Transfer Agreement, (See Transfer Information in this section of the Catalog for a complete list of MACRAO requirements.)
- Additional General Education Requirements established specifically for this Associate in Science Degree.

Students who complete Core courses other than those indicated below, and who wish to apply those credits toward the Associate in Arts Degree, should contact a faculty advisor or counselor in Room 2300 of the GVT Building, telephone number (516) 483-1904.

Before selecting ganeral education courses, students should consult II (SUB-JECT AREA CONCENTRATIONS) below for possible recommendations and requirements. Credits for each course have been indicated in parenthesis.

(NOTE: In this section, courses that satisfy the LCC General Education Core Requirements have and asterisk (*) preceding them.)

1. English Composition 8 credits

Completing any one of the courses listed in this section satisfies the LCC General Education Core Requirement in writing.

- · Complete one course from the following: *WRIT 121 (4), *WRIT 131 (4), AND
- · Complete one course from the following: *WRIT 122 (4), *ENGL 122 (4), *WRIT 132 (4), *ENGL 132 (4), OR

If WRIT 121 is waived, complete ENGL 122 or WRIT 122, AND a second WRIT or ENGL course with a number of 200 or higher.

2. Science and Mathematics

Minimum of 8 credits

Completing at least one asterisked (*) course from A or B will satisfy the LCC General Education Core Requirement in science and technology. Completing any asterisked (*) course from C will satisfy the LCC General Education core Requirement in mathematics. If C is not chosen, then the LCC Core requirement for mathematics must be met by one of the options described on page 23 of this catalog.

A minimum of 8 credits must be chosen from two of the three categories below (A, B, and C)

- A. Physical Science: *CHEM 151 & 161 (5), GEOL 221 (4), GEOL 222 (4), *METR 220 (4), PHYS 201 & 225 (5), *PHYS 215 & 225 (6)
- B. Biological Science: ANAT 201 (4), BIOL 120 (4), BIOL 121 (4), BIOL 127 (4), BIOL 128 (4), *BIOL 210 (4), BIOL 260 (4), BIOL 265 (4), MICRO 203 & 204 (4), *PHGY 202 (4)
- C. Mathematics: *MATH 121 (4), *MATH 122 (3), *MATH 126 (5), MATH 128 (3), *MATH 130 (3), *MATH 141 (3), *MATH 151 (4), *MATH 152 (4), *MATH 201 (3), STAT 170 (3), STAT 215 (4)

3. Social Science

Minimum of 8 credits Completing at least one asterisked (*) course from Category 3 (Social Science) OR Category 4 (Humanities) will satisfy the institutional Core requirement in Global Perspectives and Diversity.

- · Complete one course in Political Science from the following: POLS 120 (4) OR POLS 121 (4)
- · Complete one course or course pair from the following: ANTH 270 (3), ECON 120 (4), ECON 201 (3), ECON 202 (3), GEOG 120 (3), GEOG 200 (4), *POLS 260 (3), PSYC 200 (4), PSYC 202 (3), PSYC 203 (3), PSYC 205 (3), PSYC 250 (3), *SOCL 120 (4), SOCL 255 (3)

4. Humanities

8 credits

3 credits

Minimum of 25 credits

Completing at least one underlined course from Category 3 (Social Science) OR Category 4 (Humanities) will satisfy the institutional Core requirement in Global Perspectives and Diversity.

- Complete one of the following combinations: HIST 211 and HIST 212 or 214, *HUMS 213 and *214, *ENGL 211 and *212, *PHIL 211 and *212, RELG 211 and 212, OR
- . Complete eight (B) credits from the list below in two different areas. (Note that MSU does not accept Foreign Language as meeting the MACRAO/ Integrative Studies Humanities requirement.)
- Art History: HUMS 120, *211, *212
- Foreign Language: FREN 201, 202, GRMN 201, 202, JAPN 201, 202, SPAN 201, 202
- History: HIST 150, 210, 211, 212, 214, 220, 230, 240, 250, 260
- Humanities: HUMS 160, *213, *214, 215
- Literature: ENGL 201, 202, 203, *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

5. Speech

Complete the following course: *SPCH 120 (3)

II. SUBJECT AREA CONCENTRATIONS

The following Subject Area Concentrations list the remaining required and recommended courses that will apply toward an Associate in Science degree. Courses should be selected in consultation with an academic advisor or counselor to determine their transferability to a specific four-year school. Credits for each course have been indicated in parenthesis.

ASSOCIATE IN SCIENCE DEGREE 2000-2001 Catalog Lansing Community College www.lcc.edu Curriculum Code: 0169 COMPUTER SCIENCE Curriculum Code: 0221 BIOLOGY 1. Complete MATH 151, PHYS 215, and PHYS 225 to satisfy the Science 1. Complete MATH 121, CHEM 151, and CHEM 161 to satisfy the Science and Mathematics General Education Requirement. and Mathematics General Education Requirement. Complete the following required courses (20 credits): 2. Complete the following required courses (12 credits): Algorithms and Computing w/ C++ (4) CPSC 230 BIOL 127 Cell Biology (4) Computing and Data Structures (4) CPSC 231 Organismal Biology (4) **BIOL** 128 Computer Science Structures (4) CPSC 260 General Chemistry Lecture II (3) **CHEM 152** Calculus II (4) MATH 152 **CHEM 162** General Chemistry Lab II (1) Calculus III (4) MATH 253 3. Complete a minimum of 15 credits from the following: 3. Complete a minimum of 6 credits from the following: Human Anatomy (4) ANAT 201 (NOTE: In order to complete sequences, PHYS 216 is also recommended.) Natural Resource Conservation (4) BIOL 210 Intro: Differential Equations (3) MATH 254 BIOL 260 Botany (4) Linear Algebra (3) MATH 260 BIOL 265 Zoology (4) Physics II: Electrom/Waves/Optic (5) PHYS 216 Human Genetics (3) BIOL 270 Phys II Laboratory (1) **PHYS 226 BIOL 275** Molecular Biology I (4) Intro to Probability and Stats (4) STAT 215 Organic Chemistry Lecture I (4) **CHEM 251** Organic Chemistry Lecture II (4) CHEM 252 Organic Chemistry Laboratory (2) **CHEM 272** Curriculum Code: 0755 Microbiology (3) ENVIRONMENTAL SCIENCE MICB 203 Microbiology Laboratory (1) MICR 204 Human Physiology (4) PHGY 202 1. Complete HUMS 213 and HUMS 214 to satisfy the Humanities General Introduction to Statistics (3) STAT 170 Education Requirement. NOTE: The following is a suggested course sequence for required courses. 2. Complete MATH 121, CHEM 151, and CHEM 161 to satisfy the Science If you are unable to follow this sequence, contact an academic advisor or and Mathematics General Education Requirement. counselor for help with adjustments. Complete the following required courses (22 credits): н Organismal Biology (4) **BIOL 128** BIOL 127 **BIOL 128** Natural Resource Conservation (4) **BIOL 210 CHEM 152 CHEM 151** Introductory Organic Chemistry (3) **CHEM 182 CHEM 162 CHEM 161** Intro Organic Chemistry Lab (1) **CHEM 192 MATH 121** Introduction to Computers (3) CPSC 120 Environmental Geology (4) GEOL 230 Introduction to Statistics (3) STAT 170 Curriculum Code: 0117 CHEMISTRY Complete a minimum of 4 credits from the following: BÍOL 260 Botany (4) 1. Complete MATH 151, CHEM 151, and CHEM 161 to satisfy the Science Zoology (4) BIOL 265 and Mathematics General Education Requirement. Physical Geography (3) GEOG 121 Beginning MicroStation (3) GRET 203 2. Complete the following required courses (20 credits): Introduction to Meteorology (4) METR 220 (Note: In order to complete sequences, MATH 253, PHYS 216, and PHYS 226 are also recommended.) NOTE: The following is a suggested course sequence for required courses. General Chemistry Lecture II (3) CHEM 152 If you are unable to follow this sequence, contact an academic advisor or General Chemistry Lab II (1) **CHEM 162** counselor for help with adjustments. Organic Chemistry Lecture 1 (4) CHEM 251 Organic Chemistry Lecture II (4) **CHEM 252** ŧ٧ Ш Ìŧ I. CHEM 262 Quantitative Analysis (2) GEOL 230 **BIOL 210 BIOL 128 CHEM 151 CHEM 272 CHEM 182**

Organic Chemistry Laboratory (2) Calculus II (4) **MATH 152**

3. Complete a minimum of 8 credits from the following:

BIOL 127	Cell Biology (4)
PHYS 215	Physics I: Mechanics (5)
PHYS 225	Physics I Lab (1)
STAT 215	Intro to Probability and Stats (4)

NOTE: 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.

I CHEM 151 CHEM 161	II CHEM 152 CHEM 162 MATH 152	III CHEM 251 CHEM 262	IV CHEM 252 CHEM 272
••••		-	

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Curriculum Code: 0174

1. Complete MATH 122, CHEM 151, and CHEM 161 to satisfy the Science and Mathematics General Education Requirement.

2. Complete the following required courses (16 credits): (3)

CHEM 192

STAT 170

CHEM 161

CPSC 120

MATH 121

GEOSCIENCE

CHEM 152	General Chemistry Lecture II
CHEM 162	General Chemistry Lab II (1)
GEOL 221	Physical Geology (4)
GEOL 222	Historical Geology (4)
GEOL 230	Environmental Geology (4)

ASSOCIATE IN SCIENCE DEGREE

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 Complete a minimum of 10 credits from the following: (NOTE: PHYS 215 and 216 may be substituted for PHYS 201 and 202 with the appropriate math background.)

i ino appropria	to math baong bantary
CPSC 120	Introduction to Computers (3)
GEOL 210	Geology Field Studies (1)
METR 220	Introduction to Meteorology (4)
PHYS 201	Introductory Physics I (4)
PHYS 202	Introductory Physics II (4)
PHYS 225	Physics I Laboratory (1)
PHYS 226	Physics II Laboratory (1)

NOTE: 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	*1	IV
CHEM 151	CHEM 152	GEOL 230
CHEM 161	CHEM 162	
GEOL 221	GEOL 222	
MATH \$22		

MATHEMATICS/PHYSICS

Curriculum Code: 0200

1. Complete MATH 151 and PHYS 215 and 225 to satisfy the Science and Mathematics General Education Requirement.

2. Complete the following required courses (20 credits):

	MATH 152	Calculus II (4)
	MATH 253	Calculus III (4)
	MATH 254	Intro: Differential Equations (3)
	MATH 260	Linear Algebra (3)
	PHYS 216	Phys II: Electrom/Waves/Optic (5)
	PHYS 226	Physics II Laboratory (1)
З.	Complete a minim	um of 5 credits from the following:
	CHEM 151	General Chemistry Lecture I (4)
	ourse and	

CPSC 230 Algorithms and Computing w/ C++ (4) CPSC 231 Computing and Data Structures (4) CPSC 260 Computer Science Structures (3) MATH 281 Honors Math Seminar I (1) STAT 215 Intro to Probability and Stats (4)

NOTE: 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	111	IV
MATH 151	MATH 152	MATH 253	MATH 254
	PHYS 215	PHYS 216	MATH 260
	PHYS 225	PHYS 226	

MEDICAL PRE-PROFESSIONAL

Curriculum Code: 0754

(NOTE: Students who are planning a career in dentistry, pharmacology, medicine, physical therapy, physicians assistant, etc. could follow this curriculum.)

- Complete PSYC 200 to satisfy part of the Social Science General Education Requirement.
- 2. Complete MATH 122, CHEM 151, and CHEM 161 to satisfy the Science and Mathematics General Education Requirement.

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Complete the foll	owing required courses (16 credits):	
BIOL 127	Cell Biology (4)	
CHEM 152	General Chemistry Lecture II (3)	
CHEM 162	General Chemistry Lab II (1)	
PHYS 201	Introductory Physics I (4)	ľ
PHYS 202	Introductory Physics II (4)	
Complete a minir	num of 10 credits from the following:	
ANAT 201	Human Anatomy (4)	
CHEM 251	Organic Chemistry Lecture I (4)	
CHEM 252	Organic Chemistry Lecture II (4)	
CHEM 272	Organic Chemistry Laboratory (2)	
PHYS 225	Physics I Laboratory (1)	

Physics II Laboratory (1)

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

PRE-ENGINEERING

PHYS 226

Curriculum Code: 0112

1. Complete MATH 151, CHEM 151, and CHEM 161 to satisfy the Science and Mathematics General Education Requirement.

2. Complete the following required courses (21 credits):

- MATH 152Calculus II (4)MATH 253Calculus III (4)MATH 254Intro: Differential Equations (3)PHYS 215Physics I: Mechanics (5)PHYS 216Phys II: Electrom/Waves/Optic (5)
- 3. Complete a minimum of 5 credits from the following:

PHYS 225	Physics I Laboratory (1)
PHYS 226	Physics II Laboratory (1)
CHEM 152	General Chemistry Lecture II (3)
CHEM 162	General Chemistry Lab II (1)
CPSC 230	Algorithms and Computing w/ C++ (4)
CPSC 231	Computing and Data Structures (4)
MATH 260	Linear Algebra (3)
STAT 215	Intro to Probability and Stats (4)

 4. It is recommended that a student take one of the following CAD courses. These courses may not transfer to all engineering programs.
 DTDS 131 AutoCAD Basic 2-D (4)
 DTDS 180 UNIGRAPHICS I (4)

NOTE: 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	ŧI.	111	IV
CHEM 151	MATH 152	MATH 253	MATH 254
CHEM 161		PHYS 215	PHYS 216
MATH 151			

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GENERAL ASSOCIATE DEGREE

GENERAL ASSOCIATE DEGREE

Curriculum Code: 0863

EFFECTIVE FALL 2000 - SUMMER 2005

This degree is a customized program of study which should be approved by an advisor. 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 institution curriculum 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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, some students may find it necessary to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

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 (Room 2300 of the GVT Building, telephone number (517) 483-1904, or (517) 483-1191), or in the Counseling Services Department (Room 208 of the Student Personnel Services Building, telephone number (517) 483-1184).

REQUIREMENTS	TOTAL: 60 CREDITS	
General Education Core Areas	12 Credits	
(See the GENERAL EDUCATION section above)		
Writing Core Area	3	
Speech Communication Core Area	3	
Science/Technology Core Area	3	
Global Perspectives and Diversity Core Area	3	
Mathematics Competency (See page 23 for information on how to		
fulfill this requirement. Course work may be need	ed.)	
Customized Options (Choose one optionSee Note 1) Option A	48 Credits	
Credits in a Selected Area of Study	12	
Elective Credits	36	
Option B		
Transfer Guide Requirements (See Note 2)	Variable	
Elective Credits (See Note 3)	Variable	
MINIMUM TOTAL	60	

NOTES

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

- 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.
- 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

Accounting, AB	50
Accounting, CA	50
Accounting, CPA Exam Prep, AB	51
Managerial Accounting, AB	52

AGRICHLTURE

Precision Agriculture, AAS	53.
Precision Agriculture, CA	53

ARCHITECTURE

Arch Tech, Computer Graphics, AAS	54
Arch Tech, Residential Design, AAS	55
Architectural Technology, AAS	56
	1

ART, DESIGN, AND MULTIMEDIA

Airbrush Illustration, CA	57
Computer Graphics Animation, AAA	58
Computer Graphics, Multimedia, AAA	59
Computer Graphics, Multimedia, CA	60
Computer Graphics, Web Design, AAA	61
Figure Studies, CA	62
Fine Art Foundation, AAA	63
Graphic Design, AAA	64
Humorous Illustration, CA	64

AUTOMOTIVE

Alternate Fuels, CC 65
Auto AC/Electrical Accessories, CC
Auto Body Repair, AAS 66
Auto Body Repair, CA
Auto Steer/Suspension/Brakes, CC
Automotive Drive Lines, CC 67
Automotive Technology, AAS
Automotive Technology, CA
Engine Performance/Diagnosis, CC 69

AVIATION

Airframe Maintenance Tech, AAS 70	
Aviation Flight Technology, AAS 71	
Avionics, AAS 72	
Avionics Installation, CC	
Powerplant Maintenance Tech, AAS	

BINI DING

Building Maintenance, AAS	75
Building Mainteoance, CA	75

BUSINESS

CIVIL TECHNOLOGY		
International Business, AB	7	7
Business Administration, AB	7	e

Civil Technology, AAS 78

COMPUTER-AIDED	ORAFTING	AND	
DESIGN			

CAD/CAM Technician, AAS	79
Computer-Aided Drafting/Design, AAS	80
Computer-Aided Drafting/Design, CA	80

COMPUTERS

Computer Network/Communication, AB	81
Computer Repair Technician, CA	82
Computer Security and Controls, AB	83
Electronics, Computer Tech, AAS	84
Internet for Business, CA	85
Microcomp Database Specialist, AB	86
Microcomp Database Specialist, CA	86
Microcomp Support Specialist, AB	87
Programmer/Analyst, AB	88

COMPUTERS - ADVANCED

Adv PC Application Specialist, CC	89
PC User Support Specialist, CC	
Windows Programming Specialist, CC	89

CONSTRUCTION

-Residential Building, AAS	90
Residential Building, CA	90

COURT REPORTING

CREDIT UNION MANAGEMENT

Credit Union	Management, AB	 92
Credit Union	Management, CC	 92

CRIMINAL JUSTICE

Criminal Justice, Corrections, AB	93
Criminal Justice, Law Enforce, AB	94
Juvenile Care Worker, CA	95
Mid-Michigan Police Academy, CC	95

ELECTRICAL

Electrical Tech, Construction, CA	96
Electrical Tech, Control/Maint, CA	96
Electrical Technology, AAS	97
Electronics Technology, AAS	98
Electronics Troubleshooter, CA	99

FIRE SCIENCE

Fire Science Academy, CC 100
 Fire Science Technology, AAS 100

GEOGRAPHIC	INFORMATION	SYSTEMS
GIS/Geospacial	Technology, AAS	101

MEALTH CAREERS

Basic Emergency Med Services, CA 102
Dental Assistant, CA 102
 Dental Hygienist, AAS 103
Diagnostic Medical Sonography, CA 104
Emergency Medical Services, AAS 105
Massage Therapy, CC 106
Medical Assistant, CA 107
Multi-Skill Patient Care Tech, CC
Nursing, LPN Option, CA 108
Nursing, RN Option, AAS 109
Paramedic, CA 110
Radiologic Technology, AAS
Surgical Technology, CA 112

HEATING, AIR CONDITIONING, AND

REFRIGERATION Heating and Air Conditioning, CA 113

HOSPITALITY and Management AD

REPROPER REPORTER R		
Hotel-Motel/Food Management, AB 114		
HIMAN SERVICES CAREFRS		

CDA Credential Training, CC	115
Child Development, AAS	115
Child Development, CA	116
Gerontology, CA	116
Human Services, AAS	117
Substance Abuse, CA	118

INDUSTRIAL

Industrial Technology, AAS
Industrial Tashnalasu 04 100
Industrial Technology, CA 120
Machine Maintenance, AAS 121
Machine Repair, CA 122
Millwright, CA 122
Machinist Toolmaker, AAS 123
Tool and Die Maker, CA 123
Welding Technology, AAS 124
Welding Technology, CA 124

INTERIOR DESIGN

Interior Design Technology, AAS 125

LANDSCAPE CAREERS

Horticulture, AAS	126
Landscape Architecture, AAS	127

LEGAL ASSISTANT

Legal Assistant, AB	. 128
Legal Assistant, Post-Bachelor, CA	129

MANAGEMENT

Advanced Management, CA	
Human Resource Management, AB	
Labor Relations, CC 131	
Management, AB 132	
Management, CA 133	
Small Business Management, CC 133	

MARKETING

Computer Sales Specialist, AB	134
Field Sales and Marketing, AB	135
Field Sales and Marketing, CA	135
Marketiog, AB	136
Marketing, CA	136

MEDIA TECNNOLOGY

Media Technology, AAS 137

MOTION PICTURE Motion Picture Direction, AAS

Motion Picture Production, AAS	. 139
Motion Picture Production, CA	. 139

OFFICE CAREERS

CALIFORNIA CONTRACTOR CONTRA	
Administrative Assistant, AB 1	140
Legal Secretary, AB 1	41
Medical Admin Assistant, AB 1	42
Medical Transcriptionist, AB 1	143
Office Assistant, CC 1	144
Office Specialist: Comp Apps, CA 1	44
Records Management, AB 1	145

Music: Commercial, AAA 148 Music: Management, AAA 149 Theatre, AAA 150 PHOTOGRAPHIC IMAGING Photographic Imaging, AAS 151 QUALITY ASSURANCE Quality Assurance, AAS 152 Quality Management, AAS 153 Quality Technician, CA 153 Supervision, Manufacturing, AAS 154 Supervision, Manufacturing, CA 155

Real Estate, AB 156 Real Estate, CC 156

SCIENCE - APPLIED

REAL ESTATE

PERFORMING ARTS

Dance, AAA

Chemical Process Technology, AAS	157
Chemical Process Technology, CA	158
Chemical Technology, AAS	159
Environmental Technology, AAS	160
Histologic Technology, AAS	161
Molecular Biotechnology, AAS	162
Veterinary Technology, AAS	163

SIGN LANGUAGE

Sign Language	Interpreter, AAA 164
Sign Language	Interpreter, CA 164

STAGE TECHNOLOGY

Stage Technology, AAA	165
Stage Technology, CA	165

TECHNOLOGY - GENERAL

 Customer Energy Specialist, CA	166
 General Technology, AAS	166

TRAVEL/TOURISM

3		
	Airline Operations, CC	167
1	Tour Cruise Operations, CC	167
	Travel Agency Operations, CC	168
	Travel and Tourism, AB	169

TRUCK DRIVER TRAINING

Truck Driver Training, CC 170

KEY

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АВ	Associate Degree Business
AAA As	ssociate Degree Applied Arts
AAS Assoc	iate Degree Applied Science
CA	. Certificate of Achievement
CC	Certificate of Completion

2000-2001 Catalog Lansing Community College

ACCOUNTING ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0162 (Effective Fall 2000-Summer 2005)

Graduates of this program are qualified to work as paraprofessionals 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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REQUIREM	ENTO	TOTAL: 31 CREDITS
CODE	TITLE	CREDIT HOURS
ACCG 210	Principles of Accounting I	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
	OICE REQUIREMENTS	TOTAL: 29-30 CREDITS
Complete the	e indicated number of credits from eacl	h CHOICE listed balow.
CHOICE 1:	General Education Core Aress	12 Credits
(See the GE	NERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity C	
	Mathematics Competency (See pag- how to fulfill this requirement. Course	
CHOICE 2:	Accounting Specialty Area	11-12 Credits
ACCG 160	Payroll Systems and Taxes	2
ACCG 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 Relat	ted (See Note 1) 6 Credits
ACCG 245	Accounting Internship	2
ACCG 271	Principles of Finance	. 3
INSU 265	Principles Risk and Insurance	3
LEGL 219	Adv Busn Law for Acct Majors	4
	MINIMUM TOTAL	60
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	41	131	IV
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.	Lim.Ch.	Lim.Ch,	Lim.Ch.
	Lim.Ch.		Lim.Ch.

ACCOUNTING CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0714 (Effective Fall 2000-Summer 2005)

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 accountants.

	INTS TITLE	TOTAL: 17 CREDITS CREDIT HOURS
ACCG 160	Payroll Systems and Taxes	2
ACCG 210	Principles of Accounting I	. 4
ACCG 211	Principles of Accounting II	4
ACCG 260	Accounting Systems	4
OADM 215	Records and Info Management I	3
LIMITED CH	OICE REQUIREMENTS	TOTAL: 11-15 CREDITS
Complete the	indicated number of credits from eac	h CHOICE listed below.
CHOICE 1:	Accounting Specialty	2-3 Credits
ACCG 140	Income Tax Preparation	3
ACCG 235	Budgeting	2
CHOICE 2:	Word Processing	4 Credits
CABS 113	Microsoft Word Office/ Int Key	4
CABS 119	Word for Windows	2
CABS 121	WordPerfect for Windows 7	2
CABS 219	Advanced Microsoft Word	2
CHOICE 3:	Office Skills	2-4 Credits
OADM 195	Human Behavior in Work Place	3
OADM 203	Professional Office Procedures	. 2
OADM 220	Administrative Office Mgmt	4
CHOICE 4:	Written Communication	3-4 Credits
WRIT 121	Composition I	4
WRIT 127	Business Writing	3
ELECTIVES Complete the	Indicated number of credits in course	TOTAL: 2 CREDITS es of your choice.
	MINIMUM TOTAL	30
	COURSE SEQUENCE	ut when departments plan to

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

ACCOUNTING, CPA EXAM PREP ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0255 (Effective Fall 2000-Summer 2005)

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.

PREREQUISITES

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Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

	NTS T	OTAL: 42 CREDITS
CODE	TITLE	CREDIT HOURS
ACCG 210	Principles of Accounting I	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 241	Federal Income Tax II	4
ACCG 260	Accounting Systems	4
ACCG 290	Auditing	3
LEGL 215	Busn Law I, Basic Principles	3
LEGL 219	Adv Busn Law for Acct Majors	4
		L: 18–20 CREDITS
Complete the	indicated number of credits from each CHOIC	E listed below.
CHOICE 1:	General Education Core Areas (See Note	1) 12 Credits
(See the GEN	IERAL EDUCATION section above)	
	Writing Core Area	. 3
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	a 3
	Mathematics Competency (See page 23 for	information on
	how to fulfill this requirement. Course work r	nay be needed.)
CHOICE 2:	Governmental/Fund Accounting	4 Credits
ACCG 250	Advanced Accounting	4
ACCG 280	Governmental Accounting	4
CHOICE 3:	Accounting Related	2-4 Credits
ACCG 231	Managerial Accounting	4
ACCG 295	CPA Review - Tax, Mgr, Cost, Gov	1
ACCG 296	CPA Review - Business Law	1
	CPA Review - Auditing	1
ACCG 297	5	1
	GPA Review - FIN ACCUREDOFL	1
ACCG 297 ACCG 298 ECON 201	CPA Review - Fin Acct/Report Principles of Economics - Micro	3

NOTE

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

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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ACCOUNTING

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	121	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.	

LANSING COMMUNITY COLLEGE CATALOG 2000-2001 🔳 👼 🕇

ACCOUNTING

2000-2001 Catalog Lansing Community College

MANAGERIAL ACCOUNTING ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0247 (Effective Fall 2000-Summer 2005)

This program combines study in Accounting and Quality Assurance. Historically these skills lead to jobs in manufacturing. Today, however, service, merchandising, and governmental organizations are emphasizing cost and quality control. There should be an increasing demand for graduates of this program to assist management in budgeting, pricing, problem solving, statistical analysis, and controlling costs and quality. Job titles might be quality control auditor or cost accountant. Not all courses in this program transfer to all colleges. Studants planning to transfer should see an academic advisor or counselor before enrolling in any course.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REQUIREMI	ENTS TITLE	TOTAL: 35 CREDITS CREDIT HOURS
ACCG 210	Principles of Accounting I	4
ACCG 211	Principles of Accounting II	4
ACCG 220	Intermediate Accounting I	4
ACCG 230	Cost Accounting	4
ACCG 231	Managerial Accounting	4
ACCG 260	Accounting Systems	4
QUAL 100	Intro Quality Assurance	4
QUAL 103	Probability/Stats Qual Assur	4
QUAL 205	Cost of Quality	. 3
	OICE REQUIREMENTS	TOTAL: 2728 CREDITS

CHOICE 1:	General Education Core Areas	12 Credits
(Dec inc der	3	
	Writing Core Area Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for info	-
	how to fulfill this requirement. Course work may	
CHOICE 2:	Accounting Related	9 Credits
ACCG 160	Payroll Systems and Taxes	2
ACCG 235	Budgeting	2
ACCG 240	Federal Income Tax I	4
ACCG 241	Federal Income Tax II	4
ACCG 280	Governmental Accounting	4
ACCG 290	Auditing	3
CHOICE 3:	Quality Related (Choose one subchoice)	6–7 Credits
Subchoice 3	A	
OUAL 104	Process Control Charting	3
QUAL 107	Problem-Solving Techniques	3
Subchoice 3	B	
QUAL 121	Intro Statistical Process Cont	3
QUAL 203	Quality Systems Management	4
	MINIMUM TOTAL	62
NOTE		
1 For gradus	ation from this program, a student must have earned	d a minimum 0.00

1. For graduation from this program, a student must have earned a minimum 2.00 grade point average in courses with an ACCG prefix and QUAL prefix.

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. 52 ILLANSING COMMUNITY COLLEGE CATALOG 2000-2001

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	111	IV	
ACCG 210	ACCG 211	ACCG 220	ACCG 231	
QUAL 100	ACCG 260	ACCG 230	Lim.Ch.	
QUAL 103	QUAL 205	Lim.Ch.	Lim.Ch.	
Lim.Ch.	Lim.Ch.	Lim.Ch.	Lim.Ch.	
1 A.	Lim.Ch.		Lim.Ch.	,

AGRICULTURE

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PRECISION AGRICULTURE ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0896 (Effective Fall 2000-Summer 2005)

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

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Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

		TOTAL: 52 CREDITS
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	з
AGRI 202	Agri Soils and Crop Management	3
AGRI 211	Agricultural Crop Production	3
AGRI 212	Vegetable Crop Production	Э
AGRI 213	Ag Site Specific Research Tech	3
GRET 205	Principles Geographic Info Sys	Э
GRET 210	Global Positioning Systems	3
GRET 240	Cartography in GIS	Э
GRET 241	Remote Sens/AirPhoto Interpret	Э
GRET 243	ORACLE/Geographic Info Sys	3
GRET 253	Basics of ARC/View	1
GRET 255	Beginning ARC/Info	3
GRET 256	Advanced ARC/Info	3
HORT 102	Intro Ornamental Horticulture	2
LAND 282	Computer Draft/Dsgn Land Arch	3
WRIT 124	Technical Writing	3
LIMITED CH	OICE REQUIREMENTS	TOTAL: 9 CREDITS

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

CHOICE 1:		Credits
(See the GEN	IERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area	з
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for information	on
	how to fulfill this requirement. Course work may be need	ied.)
	MINIMUM TOTAL	61

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 seguence 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	Ņ	[1]	IV
AGRI 101	AGRI 106	AGRI 200	AGRI 201
GRET 205	AGRI 202	AGRI 211	AGRI 212
GRET 240	GRET 241	GRET 210	AGRI 213
HORT 102	GRET 253	GRET 243	GRET 256
LAND 282	WRIT 124	GRET 255	Lim.Ch.
Lim.Ch.	Lim.Ch.		

PRECISION AGRICULTURE CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0852 (Effective Fall 2000-Summer 2005)

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 such 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.

REQUIREMENTS		TOTAL: 30 CREDITS
CODE	TITLE	CREDIT HOURS
AGRI 101	Principles/Precision Agritech	2
AGRI 106	Disease/Insect Agrinomic Crops	2
AGRI 200	Vegetation and Weed Management	Э
AGRI 201	Prin/Sustainable Agriculture	3
AGRI 202	Agri Soils and Crop Management	Э
GRET 205	Principles Geographic Info Sys	Э
GRET 210	Global Positioning Systems	3
GRET 253	Basics of ARC/View	1
GRET 255	Beginning ARC/Info	3
HORT 102	Intro Ornamental Horticulture	2
LAND 100	Intro to Landscape Drafting	2
LAND 282	Computer Draft/Dsgn Land Arch	3
	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.

1	11	
AGRI 101	AGRI 200	
AGRI 106	AGRI 201	
GRET 205	AGRI 202	
GRET 253	GRET 210	
HORT 102	GRET 255	
LAND 100		
LAND 282		

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ARCH TECH, COMPUTER GRAPHICS ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0226 (Effective Fall 2000–Summer 2005)

This architectural degree option places emphasis on the development of computer aided design and drafting skills, which supplements a student's basic knowledge of architecture technology. This option provides students with a working knowledge of and the opportunity to work with the latest CAD softwares in use in today's architectural offices. Basic, advanced, and independent study courses are taught using the major computer software systems: AutoCAD, DataCAD, MicroStation, and AES. **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* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Architectural Studies Center, Gannon Vocational-Tachnical Center, Room 450, telephone number (517) 483-1327.

	ENTS	TOTAL: 26 CREDITS CREDIT HOURS
ARCH 101	Architectural Drafting I	4
ARCH 102	Architectural Drafting II	4
ARCH 121	Visual Communication I	. 3
ARCH 201	Architectural Drafting III	4
ARCH 271	Structural Theory	4
BLDT 281	International Code	3
MATH 121	College Algebra I	4
	OICE REQUIREMENTS e indicated number of credits from each (TOTAL: 44–45 CREDITS CHOICE listed below.
CHOICE 1:	General Education Core Areas	12 Credits
(See the GE	NERAL EDUCATION section above)	
•	Writing Core Area	Э
	Speech Communication Core Area	3
	Science/Technology Core Area	3

	Mathematics Competency (See Note 1)		
CHOICE 2:	Computer Graphics	18 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	4	
ARCH 232	Architectural AutoCAD II	4	
ARCH 235	Arch AutoCAD Independent Study	14	
ARCH 237	Arch Computer Rendering	3	
ARCH 251	Architectural MicroStation I	4	
ARCH 252	Architectural MicroStation II	4	
ARCH 255	MicroStation Independent Study	1-4	
CHOICE 3:	History and Preservation	3 Credits	
ARCH 141	Architectural History I	3	
ARCH 142	Architectural History II	3	
ARCH 146	Preser/Adaptive Reuse Architec	. 3	

Global Perspectives and Diversity Core Area

CHOICE 4:	Materials, Structures and Systems	7–8 Credits
ARCH 273	Environmental Systems	4
ARCH 276	Alternative Structures	3
ARCH 278	Energy Efficient Design	4
ARCH 283	Materials of Construction	.4
BLDT 277	Construction Cost Estimating	. 4
CHOICE 5:	Architectural Related (See Note 2)	4 Credits
		70

NOTES

- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Allows completion of courses which relate to specific career preparation for the field of architectural computer graphics and have not been applied in any of the above categories.

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]	IV	
ARCH 101	ARCH 102	ARCH 201	Lim.Ch.	
ARCH 121	ARCH 271	Lim,Ch.	Lim.Ch.	
MATH 121	BLDT 281	Lim.Ch.	Lim.Ch.	
Lim.Ch.	Lim.Ch.	Lim.Ch.	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 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. 54 E LANSING COMMUNITY COLLEGE CATALOG 2000-2001

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ARCH TECH, RESIDENTIAL DESIGN ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0758 (Effective Fall 2000-Summer 2005)

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

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Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education raquirements, see page 23.

INFORMATION

Contact the Architectural Studies Center, Gannon Vocational-Technical Center, Room 450, telephone number (517) 483-1327.

Room 450, te	elephone number (517) 483-1327.	
REQUIREME CODE	ENTS TITLE	TOTAL: 26 CREDITS CREDIT HOURS
ARCH 101	Architectural Drafting I	4
ARCH 102	Architectural Drafting II	. 4
ARCH 121	Visual Communication I	- 3
ARCH 128	Residential Planning	2
ARCH 271	Structural Theory	4
BLDT 281	International Code	3
LAND 132	Residential Landscaping	2
MATH 121	College Algebra I	4.
	OICE REQUIREMENTS TOT	AL: 4450 CREDITS
		CE IISTEO DEIOW.
CHOICE 1:	General Education Core Areas	12 Credits
(See the GEI	VERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Are	а З
	Mathematics Competency (See Note 1)	
CHOICE 2:	Computer Graphics	7–8 Credits
ARCH 221	Architectural DataCAD I	7-0 Credits
ARCH 222	Architectural DataCAD II	4
ARCH 225	Arch DataCAD Independent Study	1-4
ARCH 231	Architectural AutoCAD I	4
ARCH 232	Architectural AutoCAD II	4
ARCH 235	Arch AutoCAD Independent Study	1-4
ARCH 237	Arch Computer Rendering	Э
CHOICE 3:	Building Trades	7–8 Credits
BLDT 100	Introduction to Construction	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	Energy Efficient Design	4
ARCH 283	Materials of Construction	4

	1. See	
CHOICE 5:	History	3 Credits
ARCH 142	Architectural History II	3
ARCH 146	Preser/Adaptive Reuse Architec	3
INTR 232	Twentieth-Century Interiors	. 3
CHOICE 6:	Interior Design	6–7 Credits
INTR 151	Computer-Aided Kitchen Design	4
INTR 190	Interior/Materials/Equipment	4
INTR 240	Fundamentals of Lighting	3
INTR 246	Residential Interiors Studio	3
010105.7		All the states of
CHOICE 7:	Architectural Related (See Note 2)	2-4 Credits
	MINIMUM TOTAL	70
		1

NOTES

- 1. Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area.
- Allows 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.

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 prerequisitas to fulfill) should contact an academic advisor or counselor for help with adjustments.

1	11	HE	IV
ARCH 121	ARCH 101	ARCH 102	LAND 132
ARCH 128	BLDT 281	ARCH 271	Lim.Ch.
MATH 121	Lím.Ch.	Lim.Ch.	Lim.Ch.
Lim.Ch.	Lim.Ch.	Lim.Ch.	Lim.Ch.
Lim.Ch.	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 REGISTRAP'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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ARCHITECTURE

2000-2001 Catalog Lansing Community College

ARCHITECTURAL TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0233 (Effective Fall 2000–Summer 2005)

The Architectural Studies Program offers students interested in the field of architecture three degree options. This degree option makes available a comprehensive program of study, involving all aspects of the contemporary architectural profession. Graduates of this comprehensive 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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Architectural Studies Center, Gannon Vocational-Technical Center, Room 450, telephone number (517) 483-1327.

REQUIREM	ENTS	OTAL: 33 CREDITS
CODE	TITLE	CREDIT HOURS
ARCH 101	Architectural Drafting I	4
ARCH 102	Architectural Drafting II	4
ARCH 121	Visual Communication I	3
ARCH 201	Architectural Drafting III	4
ARCH 202	Architectural Drafting IV	4
ARCH 211	Design Studio I	. 3
ARCH 271	Structural Theory	4
BLDT 281	International Code	3
MATH 121	College Algebra i	4
LIMITED CH	IOICE REQUIREMENTS TOT	AL: 37-41 CREDITS
Complete the	e indicated number of credits from each CHOI	CE listed below.
CHOICE 1:	General Education Core Areas	12 Credits
(See the GE	NERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area	Э
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Are	а Э
	Mathematics Competency (See Note 1)	
CHOICE 2:	Computer Graphics	78 Credits
ARCH 221	Architectural DataCAD I	4
ARCH 222	Architectural DataCAD II	4
ABCH 291	Architectural AutoCAD I	4

ARCH 222	Architectural DataCAD II	4
ARCH 231	Architectural AutoCAD I	4
ARCH 232	Architectural AutoCAD II	4
ARCH 237	Arch Computer Rendering	3
ARCH 251	Architectural MicroStation I	4
ARCH 252	Architectural MicroStation II	4
CHOICE 3:	Materials, Structures and Systems	7–8 Credits
ARCH 273	Environmental Systems	4
ARCH 276	Alternative Structures	3
ARCH 278	Energy Efficient Design	4
ARCH 283	Materials of Construction	4
BLDT 277	Construction Cost Estimating	4

6 Credits CHOICE 4: **History and Preservation ABCH 141** Architectural History I 3 Architectural History II 3 ARCH 142 3 Preser/Adaptive Reuse Architec ARCH 146 CHOICE 5: 2--3 Credits Design Residential Planning 2 **ARCH 128** Barrier-Free Design 3 **ARCH 181** ARCH 182 Universal Design 3 ARCH 212 Design Studio II 3 3 Facilities Design ARCH 213 3-4 Credits Architectural Related (See Note 2) CHOICE 6: MINIMUM TOTAL 70

NOTES

- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Allows completion of courses which relate to specific career preparation for the field of architecture and have not been applied in any of the abové categories.

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	И	HI	iv	
ARCH 101	ARCH 102	ARCH 201	ARCH 202	
ARCH 121	ARCH 211	ARCH 271	Lim.Ch.	
MATH 121	BLDT 281	Lim.Ch.	Lim.Ch.	
Lim.Ch.	Lim.Ch.	Lim.Ch.	Lim.Ch.	
Lim.Ch.	Lim.Ch.	Lim.Ch.	Lim.Ch.	
		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 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. 56 ILANSING COMMUNITY COLLEGE CATALOG 2000-2001

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ART, DESIGN, AND MULTIMEDIA

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AIRBRUSH ILLUSTRATION CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0858 (Effective Fall 2000-Summer 2005)

This certificate program consists of practical hands-on courses that provide students with the technical knowledge and skills needed to create airbrush artwork on a variety of surfaces and materials. Students are prepared for entry-level positions in fields such as automotive customization, sign painting, photo retouching, nail design, and the fashion industry.

PREREQUISITES

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to eid Students should see the *Course Descriptions* section of this catalog or the *Class Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

REQUIREMENTS		TOTAL: 24 CREDITS	
CODE	TITLE	CREDIT HOURS	
ARTS 102	2-Dimensional Design	3	
ARTS 131	Drawing I	3	
ARTS 132	Life Drawing	3	
ARTS 137	Perspective Drawing	2	
ARTS 195	Employ/Busn Issues for Artists	1	
ARTS 221	Airbrush Techniques I	4	
ARTS 222	Airbrush Techniques II	4	
ARTS 224	Automotive Airbrush Techniques	4	

LIMITED CHOICE REQUIREMENTS TOTAL: 9–10 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	Related Art Courses	
ARTS 162	Typography	3
ARTS 200	Painting I	4
ARTS 213	Illustration Fundamentals	3
ARTS 216	Humorous Illustration 1	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.

1	И	111	· ·
ARTS 102	ARTS 132	ARTS 195	
ARTS 131	ARTS 137	ART\$ 224	
ARTS 221	ARTS 222	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 PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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COMPUTER GRAPHICS ANIMATION ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0294 (Effective Fall 2000-Summer 2005)

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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

TOTAL: 60 CREDITS	REQUIREMENTS	
CREDIT HOURS	TITLE	CODE
3	2-Dimensional Design	ARTS 102
. 3	Drawing I	ARTS 131
3	Life Drawing	ARTS 132
2	Perspective Drawing	ARTS 137
3	Computer Graphics/Illustration	ARTS 151
3	Typography	ARTS 162
3	Computer Graphics/Photography	ARTS 171
3	Electronic Design	ARTS 175
1	Employ/Busn Issues for Artists	ARTS 195
3	Humorous Illustration I	ARTS 216
. 3	Advanced Digital Imaging	ARTS 228
3	Comp Graphics/Advanced Illustr	ARTS 231
4	Comp Graphics/2-D Animation	ARTS 232
4	Comp Graphics/2-D Interactive	ARTS 233
4	Comp Graphics/3-D Animation I	ARTS 234
. 3	Comp Graphics/3-D Animation II	ARTS 235
. 3	Computer Graphics/Production	ARTS 236
2	The Portfolio (See Note 1)	ARTS 269
3	Art Internship	ARTS 281
4	Film Production I	FILM 118

LIMITED CHOICE REQUIREMENTS

TOTAL: 12 CREDITS

Complete the indicated number	of credits from each choice listed below.	
· · ·		

CHOICE 1: General Education Core Areas	12 Credits
(See the GENERAL EDUCATION section above)	
Writing Core Area	3
Speech Communication Core Area	3
Science/Technology Core Area	3
Global Perspectives and Diversity Core Area	3
Mathematics Competency (See page 23 for inform	ation on
how to fulfill this requirement. Course work may be	needed.)

MINIMUM TOTAL

72

NOTES

- 1. The Portfolio is considered to be the final course in this curriculum. All other
- courses must already be completed or be taken concurrently with ARTS 269.
- 2. 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.
- For graduation, a student must have earned a minimum grade point of 2.0 in all courses with an ARTS and FILM 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]	1V	
ARTS 102	ARTS 132	ARTS 175	ARTS 195	
ARTS 131	ARTS 137	ARTS 216	ARTS 228	
FILM 118	ARTS 151	ARTS 231	ARTS 232	
Lim.Ch.	ARTS 162	ARTS 234	ARTS 235	
Lim Ch.	ARTS 171	Lim.Ch.	Lim.Ch.	

ARTS 233 ARTS 236 ARTS 269 ARTS 281

ART, DESIGN, AND MULTIMEDIA

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COMPUTER GRAPHICS, MULTIMEDIA ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0194 (Effective Fall 2000-Summer 2005)

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.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REQUIREMENTS		TOTAL: 50 CREDITS	
ARTS 131	Drawing I	3	
ABTS 151	Computer Graphics/Illustration	3	
ARTS 162	Typography	3	
ARTS 171	Computer Graphics/Photography	3	
ARTS 173	Computer Graphics/Web Design	2	
ARTS 228	Advanced Digital Imaging	. 3	
ARTS 232	Comp Graphics/2-D Animation	4	
ARTS 233	Comp Graphics/2-D Interactive	4	
ARTS 234	Comp Graphics/3-D Animation I	4	
ARTS 235	Comp Graphics/3-D Animation II	3	
ARTS 236	Computer Graphics/Production	3	
ARTS 269	The Portfolio (See Note 1)	2	
ARTS 281	Art Internship	З	
CISB 102	Internet Literacy	3	
CISB 200	Info Sys Tech/Problem Solving	Э	
FILM 118	Film Production I	. 4	

LIMITED CHOICE REQUIREMENTS TOTAL: 20-22 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	General Education Core Areas ERAL EDUCATION section above)	9 Credits
toec me arm	Э	
	Writing Core Area Speech Communication Core Area	3
	Science/Technology Core Area (See Note 2)	0
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for inform	mation on
	how to fulfill this requirement. Course work may b	e needed.)
CHOICE 2:	Specialty (Choose one subchoice)	11-13 Credits
Subchoice 2A	A: Art Specialty	
ARTS 102	2-Dimensional Design	3
ARTS 132	Life Drawing	. 3
ARTS 216	Humorous Illustration I	з
IMAG 101	Basic Photog for Non-Majors	2
Subchoice 2E	3: Photography Specialty	
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
	MINIMUM TOTAL	70

NOTES

- The Portfolio is considered to be the final course in this curriculum. All other 1. courses must already be completed or be taken concurrently with ARTS 269.
- Students completing REQUIREMENTS have fulfilled the requirements for this 2. Core area.
- 3. 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 Arts, Design and Multimedia Program if they are not sure about their computer skill level.
- For graduation, a student must have earned a minimum grade point of 2.0 in 4. all courses with an ARTS and IMAG 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.

Subchoice 2A: Art Specialty				
ŧ	11	IB	IV	
ARTS 102	ARTS 132	ARTS 173	ARTS 228	
ARTS 131	ARTS 151	ARTS 232	ARTS 233	
CISB 102	ARTS 162	ARTS 234	ARTS 235	
CISB 200	ARTS 171	IMAG 101	Lim.Ch.1	
FILM 118	ARTS 216		Lim.Ch.1	

ABTS 236 **ARTS 269**

ARTS 281

Lim.Ch.1

Subchoice 28: Photography Specialty

1	H	11	ŧV
ARTS 131	ARTS 151	ARTS 162	ARTS 228
CISB 102	ARTS 171	ARTS 173	ARTS 233
IMAG 111	CISB 200	ARTS 232	ARTS 235
IMAG 112	FILM 118	ARTS 234	Lim.Ch.1
IMAG 113	IMAG 114	Lim.Ch.1	

ARTS 236 ARTS 269 **ARTS 281**

Lim.Ch.1

COMPUTER GRAPHICS, MULTIMEDIA CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0857 (Effective Fall 2000-Summer 2005)

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.

PREREQUISITES

Students should see the *Course Descriptions* section of this catelog or the *Class Schedule* for course prerequisite information. Basic skills assessment and advising information may be found of page 8 of this catalog.

INFORMATION

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

	ENTS T	OTAL: 41 CREDITS CREDIT HOURS
ARTS 151	Computer Graphics/Illustration (See Note 2)	3
ARTS 171	Computer Graphics/Photography (See Note	
ARTS 173	Computer Graphics/Web Design	2
ARTS 195	Employ/Bush Issues for Artists	1
ARTS 228	Advanced Digital Imaging	3
ABTS 231	Comp Graphics/Advanced Illustr	3
ARTS 232	Comp Graphics/2-D Animation (See Note 2)) " 4
ARTS 233	Comp Graphics/2-D Interactive	4
ARTS 234	Comp Graphics/3-D Animation I	4
ARTS 235	Comp Graphics/3-D Animation II	3
ARTS 236	Computer Graphics/Production	3
ABTS 269	The Portfolio	2
ARTS 281	Art Internship	3
CISB 102	Internet Literacy	3
	MINIMUM TOTAL	41

NOTES

- 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.
- 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.
- For graduation, a student must have earned a minimum grade point of 2.0 in all courses with an ARTS 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.

ARTS 171 A ARTS 195 A	RTS 173 RTS 231 RTS 232 RTS 234	ARTS 228 ARTS 233 ARTS 235	ARTS 236 ARTS 269 ARTS 281

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COMPUTER GRAPHICS, WEB DESIGN ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0914 (Effective Fall 2000-Summer 2005)

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 design is a cooperative process, and the designer may work with interface 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 section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REQUIREMENTS		TOTAL: 61 CREDITS
CODE	TITLE	CREDIT HOURS
ARTS 102	2-Dimensional Design	3
ARTS 131	Drawing I	3
ARTS 132	Life Drawing	Э
ARTS 151	Computer Graphics/Illustration	3
ARTS 171	Computer Graphics/Photography	3
ARTS 173	Computer Graphics/Web Design	2
ARTS 216	Humorous Illustration I	3
ARTS 228	Advanced Digital Imaging	3
ARTS 232	Comp Graphics/2-D Animation	4
ARTS 233	Comp Graphics/2-D Interactive	4
ARTS 236	Computer Graphics/Production	3
ARTS 269	The Portfolio (See Note 2)	2
ARTS 281	Art Internship	3
CISB 102	Internet Literacy	3
CISB 119	Intro Window Prog Visual BASIC	4
CISB 136	SQL: Structured Query Language	2
CISB 200	Info Sys Tech/Problem Solving	3
CISB 204	Commercial Internet Site Mgmt	3
CISB 253	WWW Interactive Programming	4
CISB 258	Developing Pages for the Web	3

LIMITED CHOICE REQUIREMENTS

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

CHOICE 1:	General Education Core Areas 9 (Credits
(See the GEN	ERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area	3
	Science/Technology Core Area (See Note 3)	0
	Global Perspectives and Diversity Core Area	з
	Mathematics Competency (See page 23 for information of	n
	how to fulfill this requirement. Course work may be neede	od.)
	MINIMUM TOTAL	70

NOTES

- It is recommended that all students entering this curriculum have computer 1. 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 the Macintosh and Introduction to Windows NT. Students should make an appointment with a Program 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 courses must be completed or be taken concurrently with ARTS 269.
- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- The LCC Computer Graphics Advisory Committee recommends that students in this curriculum also take MKTG 140 - Introduction to Advertising.

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	11	. 111	tv	
ARTS 102	ARTS 132	ARTS 173	ARTS 228	
ARTS 131	ARTS 151	ARTS 232	ARTS 233	
CISB 102	ARTS 171	CISB 136	CISB 204	
CISB 119	ARTS 216	CISB 258	CISB 253	
CISB 200		Lim.Ch.		

ARTS 236

ARTS 269 **ARTS 281** 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 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. LANSING COMMUNITY COLLEGE CATALOG 2000-2001 B 61

TOTAL: 9 CREDITS

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TOTAL: 8 CREDITS

FIGURE STUDIES CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0850 (Effective Fall 2000–Summer 2005)

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.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Class Schedule for course prerequisite information. Basic skills essessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

REQUIREMENTS		TOTAL: 32 CREDITS CREDIT HOURS
CODE	TITLE	
ARTS 102	2-Dimensional Design	3
ARTS 131	Drawing I	3
ARTS 132	Life Drawing (See Note 1)	3
ARTS 133	Surface Anatomy for Artists	2
ARTS 136	Figure Sculpture	3
ARTS 203	Figure Painting (See Note 2)	4
ARTS 203	Art independent Study	3
	History of Art I	4
HUMS 211		4
HUMS 212	History of Art II	,

LIMITED CHOICE REQUIREMENTS

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

CHOICE 1:	Art	8 Credits
		4
ARTS 140	Printmaking I	. 4
ARTS 141	Printmaking II	
ARTS 145	Screen Printing I	4
ABTS 146	Screen Printing II	4
ARTS 151	Computer Graphics/Illustration	3
ABTS 204	Watercolor	4
		4
ARTS 205	Watercolor II	4
ABTS 206	Advanced Watercolor	
ARTS 216	Humorous Illustration I	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

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	<u>III</u>	
ARTS 102 ARTS 131 HUMS 211 Lim.Ch.	ARTS 132 ARTS 132 ARTS 133 HUMS 212 Lim.Ch.	ARTS 136 ARTS 203 ARTS 276 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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FINE ART FOUNDATION ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0271 (Effective Fall 2000-Summer 2005)

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 fairs, 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.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

		TOTAL: 42 CREDITS CREDIT HOURS
ARTS 102	2-Dimensional Design	, 3
ARTS 103	3-Dimensional Design	3
ARTS 131	Drawing I	3
ARTS 132	Life Drawing (See Note 1)	3
ARTS 133	Surface Anatomy for Artists	2
ARTS 136	Figure Sculpture	3
ARTS 140	Printmaking I	4
ARTS 145	Screen Printing I	4
ARTS 190	Matting and Framing Techniques	1
ARTS 200	Painting 1	4
ARTS 204	Watercolor I	4
HUMS 211	History of Art I	4
HUMS 212	History of Art II	4
	OICE REOUIREMENTS e indicated number of credits from each i	TOTAL: 26 CREDITS CHOICE listed below.

CHOICE 1:	General Education Core Areas	9 Credits
(See the GEN	ERAL EDUCATION section above)	
	Writing Core Area	З
	Speech Communication Core Area	З
	Science/Technology Core Area	З
	Global Perspectives and Diversity Core Area (See No	<i>te 2)</i> 0
	Mathematics Competency (See page 23 for information	on an
	how to fulfill this requirement. Course work may be ne	eded.)
CHOICE 2:		17 Credits
ARTS 132	Life 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/Photography	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
	MINIMUM TOTAL	68

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 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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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.

I	11		Ιν
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	HUMS 211	Lim.Ch.2	

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

ART, DESIGN, AND MULTIMEDIA

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NOTE

GRAPHIC DESIGN ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0219 (Effective Fall 2000-Summer 2005)

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 generate 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.

PREREOVISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REOUIREME	ENTS	TOTAL: 59 CREDITS
CODE	TITLE	CREDIT HOURS
ARTS 102	2-Dimensional Design	3
ARTS 131	Drawing I	3
ARTS 132	Life Drawing	3
ARTS 137	Perspective Drawing	2
ARTS 162	Typography	3
ARTS 171	Computer Graphics/Photography	3
ARTS 175	Electronic Design	3
ARTS 195	Employ/Busn Issues for Artists	t
ARTS 228	Advanced Digital Imaging	3
ARTS 251	Graphic Design I	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	Э
ARWS 133	Introduction to Pagemaker	1
CABS 195	Microsoft Windows	2
HUMS 211	History of Art I	4
HUMS 212	History of Art II	4
MKTG 140	Introduction to Advertising	3
	DICE REQUIREMENTS	OTAL: 12 CREDITS CE listed below.
CHOICE 1:	General Education Core Areas	9 Credits
	ERAL EDUCATION section above)	5 Credits
,	Writing Core Area	3
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	a (See Note 1) 0
	Mathematics Competency (See page 23 for how to fulfill this reguirement. Course work (information on
CHOICE 2:	Illustration	
ARTS 213	Illustration Fundamentals	3 Credits
ARTS 233		3
AD13231	Comp Graphics/Advanced Illustr	3
	MINIMUM TOTAL	71

_ Students completing REQUREMENTS 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.

l	1	31	IV	
ARTS 102	ARTS 132	ABTS 171	ARTS 228	
ARTS 131	ARTS 137	ARTS 252	ARTS 253	
ARTS 162	ARTS 175	🗧 ARWS 133	ARTS 257	
HUMS 211	ARTS 251	CABS 195	ARTS 281	
Lim.Ch.1	HUMS 212	MKTG 140	Lim.Ch.2	
v				
ARTS 195			·	
ARTS 269			2	

Lim.Ch.1 Lim.Ch.1

HUMOROUS ILLUSTRATION CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0854 (Effective Fall 2000-Summer 2005)

This certificate of achievement 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. Certificate holders may improve their opportunities for advancement in this or a related field. Additional education enhances an individual's employment opportunities.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Class Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

REQUIREMENTS		TOTAL: 30 CREDITS
CODE	TITLE	CREDIT HOURS
ARTS 102	2-Dimensional Design	3
ARTS 131	Drawing I	3
ARTS 132	Life Drawing	3
ARTS 137	Perspective Drawing	2
ARTS 162	Typography	3
ARTS 195	Employ/Busn Issues for Artists	1
ARTS 213	Illustration Fundamentals	3
ARTS 216	Humorous Illustration I	3
ARTS 217	Humorous Illustration II	3
ARTS 227	Humorous Illustration III	2 3
ARTS 269	The Portfolio	2
ARWS 131	Intro to Computer Illustration	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.

<u> </u>	11	
ARTS 102	ARTS 132	ARTS 213
ABTS 131	ARTS 137	ARTS 227
ARTS 162	ARTS 195	ARTS 269
ARTS 216	ARTS 217	
	ARWS 131	

AUTOMOTIVE

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ALTERNATE FUELS CERTIFICATE OF COMPLETION

Curriculum Code: 0855 (Effective Fall 2000-Summer 2005)

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 any Michigan Secretary of State Office.

PREREQUISITES

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Students should see the *Course Descriptions* section of this catalog or the *Class Schedule* for course prarequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 18 CREDITS	
CODE	TITLE	CREDIT HOURS	
AUTO 100	Auto Service I	3	
AUTO 215	Engine Performance/Tune-Up	5	
AUTO 225	Automotive Computers	5	
AUTO 260	Intro to Alternative Fuels	2	
AUTO 261	Alternative Fuels - CNG	3	
	MINIMUM TOTAL	18	

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	11	111	
AUTO 100 AUTO 215	AUTO 225 AUTO 260	AUTO 261	

AUTO AC/ELECTRICAL ACCESSORIES CERTIFICATE OF COMPLETION

Curriculum Code: 0846 (Effective Fall 2000-Summer 2005)

This certificata 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 any Michigan Secretary of State Office.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Class Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 11 CREDITS
CODE	TITLE .	CREDIT HOURS
AUTO 100	Auto Service I	
AUTO 110	Auto Electrical Theory	5
AUTO 160	Auto Heat & Air Conditioning	3
	MINIMUM TOTAL	11

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.

AUTO 100 AUTO 110

AUTO 160

AUTOMOTIVE

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AUTO BODY REPAIR ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0188 (Effective Fall 2000-Summer 2005)

Auto body 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 body 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. This program does not provide state certification.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREM CODE	ENTS	TOTAL: 54 CREDITS
AUTO 100	Auto Service I	3
AUTO 110	Auto Electrical Theory	5
AUTO 141	Non-Structural Repeir (See Note 1)	3
AUTO 142	Advanced Non-Structural Repair	5
AUTO 143	Auto Body Welding and Cutting (See Note	1) 5
AUTO 144	Auto Body Structural Repair	5
AUTO 145	Introduction to Refinishing (See Note 1)	5
AUTO 146	Advanced Refinishing	5
AUTO 147	Collision Repair Estimating	3
AUTO 148	Automotive Plastic Repair	3
AUTO 150	Auto Steering & Suspension	3
AUTO 160	Auto Heat & Air Conditioning	. 3
AUTO 285	Automotive Internship (See Note 1)	6

LIMITED CHOICE REQUIREMENTS TOTAL: 16-17 CREDITS

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

CHOICE 1:	General Education Core Areas	12 Credits
(See the GEI	VERAL EDUCATION section above)	
	Writing Core Area	Э
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for infor	mation on
	how to fulfill this requirement. Course work may b	pe needed.)
CHOICE 2:	Automotive Related	4-5 Credits
AUTO 188	Auto Body Repair and Painting	4
AUTO 215	Engine Performance/Tune-Up	5
AUTO 225	Automotive Computers	5
\bigcirc	MINIMUM TOTAL	70

NOTE

 Students must obtain department approval from the Technology Careers Department prior to registering for these 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	10	ł۷.
AUTO 100	AUTO 110	AUTO 144	AUTO 147
AUTO 141	AUTO 142	AUTO 146	AUTO 148
AUTO 143	Lim.Ch.	AUTO 160	AUTO 150
AUTO 145	Lim.Ch.	Lim.Ch.	AUTO 285
		Lim.Ch.	Lim.Ch.

AUTO BODY REPAIR CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0166 (Effective Fall 2000-Summer 2005)

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.

CODE		TOTAL: 35 CREDITS CREDIT HOURS
AUTO 100	Auto Service I	3
AUTO 141	Non-Structural Repair (See Note 1)	3
AUTO 142	Advanced Non-Structural Repair	5
AUTO 143	Auto Body Welding and Cutting (See Note	1) 5
AUTO 144	Auto Body Structural Repair	5
AUTO 145	Introduction to Refinishing (See Note 1)	5
AUTO 146	Advanced Refinishing	. 5
MATH 050	Math-Principles and Practices	4
	MINIMUM TOTAL	35

NOTE

 Students must obtain department approval from the Technology Careers Department prior to registering for these 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.

<u> </u>	
AUTO 100	AUTO 142
AUTO 141	AUTO 144
AUTO 143	AUTO 146
AUTO 145	MATH 050

AUTO STEER/SUSPENSION/BRAKES CERTIFICATE OF COMPLETION

Curriculum Code: 0851 (Effective Fall 2000-Summer 2005)

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 any Michigan Secretary of State Office.

PREREQUISITES

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Students should see the Course Descriptions section of this catalog or the Class Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 12 CREDITS	
CODE	TITLE	CREDIT HOURS	
AUTO 100	Auto Service I	3	
AUTO 140	Automotive Brakes	3	
AUTO 150	Auto Steering & Suspension	3	
AUTO 230	Anti-Lock Braking Systems	: 3	
	MINIMUM TOTAL	12	

NOTE

1. 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.

I	<u>i</u>
AUTO 100	AUTO 230
AUTO 140	
AUTO 150	

AUTOMOTIVE DRIVE LINES CERTIFICATE OF COMPLETION

Curriculum Code: 0856 (Effective Fall 2000-Summer 2005)

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 any Michigan Secretary of State Office.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Class Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 17 CREDITS
CODE	TITLE	CREDIT HOURS
AUTO 100	Auto Service I	3
AUTO 120	Auto Drive Train	-' 3
AUTO 121	Automatic Transmissions I	¹ ··· 25
AUTO 122	Automatic Transmissions II	3
AUTO 130	Automotive Engines	3
		1
	MINIMUM TOTAL	17

NOTE

1. 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.

AUTO 100 AUTO 120 AUTO 121 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 PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE LANSING COMMUNITY COLLEGE CATALOG 2000-2001 B 67

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AUTOMOTIVE TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0238 (Effective Fall 2000-Summer 2005)

This program prepares individuals to work in the automotive field as technicians. 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 licensed automotive technicians through the Secretary of State. State certification tests are available at any Michigan Secretary of State Office.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREN	IENTS	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	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	5
AUTO 225	Automotive Computers	5
AUTO 230	Anti-Lock Braking Systems	3
WRIT 124	Technical Writing	3
LIMITED CH	OICE REQUIREMENTS	TOTAL: 18 CREDITS
Complete th	e indicated number of credits from each C	HOICE listed below:
CHOICE 1:	General Education Core Areas	9 Credits
(See the GE	NERAL EDUCATION section above)	5 Credits
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core	Area 3
	Mathematics Competency (See page 2	23 for information on
	how to fulfill this requirement. Course w	ork may be needed.)
CHOICE 2:	Automotive Related	9 Credits
AUTO 133	Small Engine Repair	
AUTO 141	Non-Structural Repair	3 3
AUTO 145	Introduction to Refinishing	3 5
AUTO 251	Advanced Computer Diagnosis	2 2
AUTO 280	Automotive Service Laboratory	· 6
AUTO 285	Automotive Internship	
MACH 105	Machine Tool Survey	6
MACH 135	Metallurgy and Heat Treat	3 4
	MINIMUM TOTAL	65
NOTE		
I. Students	completing REQUIREMENTS have fulfilled	the requirements for this

 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	11	111	IV	
AUTO 100	AUTO 121	AUTO 120	AUTO 230	
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.		

AUTOMOTIVE TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0140 (Effective Fall 2000-Summer 2005)

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 any Michigan Secretary of State Office.

REQUIREMENTS CODE TITLE		TOTAL: 40 CREDITS
AUTO 100	Auto Service I	3
AUTO 110	Auto Electrical Theory	
AUTO 130	Automotive Engines	3
AUTO 140	Automotive Brakes	9
AUTO 150	Auto Steering & Suspension	
AUTO 160	Auto Heat & Air Conditioning	. 3
AUTO 215	Engine Performance/Tune-Up	5
AUTO 225	Automotive Computers	. 5
AUTO 280	Automotive Service Laboratory	=
MATH 050	Math-Principles and Practices	. 6
	MINIMUM TOTAL	40

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	
AUTO 100	AUTO 140	AUTO 225	
AUTO 110	AUTO 150	AUTO 280	
AUTO 130	AUTO 160		
MATH 050	AUTO 215		

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ENGINE PERFORMANCE/DIAGNOSIS CERTIFICATE OF COMPLETION

Curriculum Code: 0848 (Effective Fall 2000-Summer 2005)

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 any Michigan Secretary of State Office.

PREREQUISITES

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io eid Students should see the *Course Descriptions* section of this catalog or the *Class Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 20 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	5
AUTO 251	Advanced Computer Diagnosis	2
	MINIMUM TOTAL	20

NOTE

1. 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	11	
AUTO 100	AUTO 225	
AUTO 110	AUTO 251	
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 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.

AUTOMOTIVE

AIRFRAME MAINTENANCE TECH ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0757 (Effective Fall 2000-Summer 2005)

Airrame 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/havigation, 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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Aviation Program at the LCC Aviation Center, telephone number (517) 483-1406.

	ENTS TITLE	TOTAL: 54 CREDITS 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	. 4
AVAF 209	Aircraft Structures II	4
AVAF 210	Aircraft Structures III	3
AVAF 211	Aircraft Electrical I	. 4
AVAF 212	Aircraft Electrical II	4
AVAF 246	National Airframe Cert Proced	1
AVGM 111	Aviation General I	. 4
AVGM 112	Aviation General II	. 6
AVGM 113	Aviation General III	4
AVGM 114	Material and Processes	5
WELD 210	Aircraft Welding	2

LIMITED CHOICE REQUIREMENTS TOTAL: 12 CREDITS Complete the indicated number of credits from *each* CHOICE listed below.

CHOICE 1:	General Education Core Areas	12 Credits
(See the GEI	VERAL EDUCATION section above)	
	Writing Core Area	з
	Speech Communication Core Area	.3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	з
	Mathematics Competency (See page 23 for informat	tion on
	how to fulfill this requirement. Course work may be n	needed.)
		<i>,</i>

MINIMUM TOTAL

NOTE

 Students must complete each course with a minimum grade of 70 percent and pass Pre-Tests for General and Airframe with a minimum grade of 80 percent to be approved for the Federal Aviation Administration written tests.

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	111	IV .
AVGM 111	AVAF 125	AVÄF 127	Lim,Ch,
AVGM 112	AVAF 126	AVAF 1,34	Lim.Ch.
AVGM 113	AVAF 208	AVAF 209	Lim.Ch.
AVGM 114	AVAF 211	AVAF 210	Lim.Ch.
	WELD 210	AVAF 212	
		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 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. **70 II** LANSING COMMUNITY COLLEGE CATALOG 2000-2001

AVIATION FLIGHT TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0259 (Effective Fall 2000-Summer 2005)

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

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Aviation Program at the LCC Aviation Center, telephone number (517) 483-1406.

REQUIREM		TOTAL: 41 CREDITS
CODE	TITLE	CREDIT HOURS
AVAF 134	Aircraft Instruments	2
AVFT 201	Flight Training I	7.5
AVFT 202	Flight Training II	5
AVFT 203	Flight Training III	5.5
AVET 204	Flight Training IV	5
AVGS 101	Private Pilot Ground School	4
AVGS 211	Instrument Pilot Ground School	4
AVGS 221	Commercial Pilot Ground School	4
AVST 211	Flight Simulator I	1 .
AVST 212	Flight Simulator II	1
AVST 213	Flight Simulator III	1
AVST 214	Flight Simulator IV	1
LIMITED CH	IOICE REQUIREMENTS	TOTAL: 22 CREDITS
	e indicated number of credits from each CHC	NCE listed below.
CHOICE 1:	General Education Core Areas	12 Credits
(See the GE	NERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area	- 3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Ar	ea 3
	Mathematics Competency (See page 23 fc	or information on
	how to fulfill this requirement. Course work	(may be needed.)
CHOICE 2:	Advanced Flight Training	10 Credits
AVFT 205	CFI Flight Training	3.5
AVFT 206	Flight Inst Instrument Flight	2.5
AVFT 207	Multi-Engine Flight Training	1.5
AVFT 208	Multi-Engine Instructor Flight	.75
AVET 224	Tail Wheel Transition	1
AVGS 222	Flight Instruct Ground School	4
AVST 215	Multi-Engine Flight Simulator	
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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.

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AVFT 201	AVFT 202	AVAF 134	AVFT 204
AVGS 101	AVGS 211	AVFT 203	AVST 214
AVST 211	AVST 212	AVGS 221	Lim.Ch.
		AVST 213	Lim.Ch.
v	VI		
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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

LANSING COMMUNITY COLLEGE CATALOG 2000-2001 📾 🎖 🕯

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AVIATION

2000-2001 Catalog Lansing Community College

AVIONICS ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0260 (Effective Fall 2000-Summer 2005)

Aviation electronics (avionics) is the application of electronics to aviation. Avionics technicians install and service complex communication, navigation, radar, and autopilot equipment. The avionics work environment is clean, well-lighted, and temperature-controlled. Students will find employment opportunities at airlines, airports, electronics manufacturers, and government agencies. LCC Avionics students can qualify for several industry training certificates from Allied Signal Aerospace. In addition, LCC offers on-site testing for the General Radiotelephone Operator License. Although students do not need any special skills to start the Avionics Program, they should be aware that color blindness may cause them difficulty because various electronic components are color-coded.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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Contact the Aviation Program at the LCC Aviation Center, telephone number (517) 483-1406.

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AVEL 150 Avionics Installat/Generat Lab 1 AVEL 151 Avionics Installat/Generat Lab 1 AVEL 190 Receiver Troubleshooting Lab 1 AVEL 200 Flight Line Testing 2 AVEL 201 Flight Line Testing Lab 1 AVEL 201 Flight Line Testing Lab 1 AVEL 220 Avionics Systems I 3 AVEL 221 Avionics Systems I Lab 2 AVEL 225 Avionics Systems II 3 AVEL 230 Avionics Systems II 3 AVEL 231 Avionics Systems II Lab 2 AVEL 231 Avionics Systems II Lab 3 AVEL 231 Avionics Systems II Lab 3 AVEL 231 Avionics Instruments I 1 CISB 200 Info Sys Tech/Problem Solving 3 ELCT 101 Analog Problems 5 ELCT 110 AC Circuits 3 ELCT 120 Programming Preparation 2 ELCT 131 Digital Basics 3 ELCT 142 Linear Circuits I 3 ELCT 212 Linear Circuits II 3			
AVEL 151 Avionics Installat/Generat Lab 1 AVEL 190 Receiver Troubleshooting 2 AVEL 191 Receiver Troubleshooting Lab 1 AVEL 200 Flight Line Testing 2 AVEL 201 Flight Line Testing Lab 1 AVEL 201 Flight Line Testing Lab 1 AVEL 221 Avionics Systems I Lab 2 AVEL 225 Avionics Systems I Lab 2 AVEL 230 Avionics Systems II 3 AVEL 231 Avionics Systems II 3 AVEL 199 DC Circuits 3 ELCT 109 DC Circuits 3 ELCT 110 AC Circuits 3 ELCT 120 Programming Preparation 2 ELCT 211 Linear Circuits I 3 ELCT 212 Linear Circuits I 3 ELCT 211 Linear Circuits I 3 ELCT 21		Avionics Aintrame Applications	
AVEL 190 Receiver Troubleshooting 2 AVEL 191 Receiver Troubleshooting Lab 1 AVEL 200 Flight Line Testing 2 AVEL 201 Flight Line Testing Lab 1 AVEL 201 Flight Line Testing Lab 1 AVEL 201 Avionics Systems I 2 AVEL 221 Avionics Systems I Lab 2 AVEL 225 Avionics Systems II 3 AVEL 231 Avionics Systems II 2 AVEL 231 Avionics Systems II Lab 2 AVIR 140 Avionics Instruments I 1 CISB 200 Into Sys Tech/Problem Solving 3 ELCT 101 AC Circuits 3 ELCT 110 AC Circuits 3 ELCT 120 Programming Preparation 2 ELCT 121 Transistors 6 ELCT 120 Programming Preparation 3 ELCT 211 Linear Circuits I 3 ELCT 212 Linear Circuits I 3 ELCT 213 Advanced Digital Electronics 4 SPCH 110 Oral Communic in the Workplace 3 <td></td> <td></td> <td></td>			
AVEL 191 Receiver Troubleshooting Lab 1 AVEL 200 Flight Line Testing 2 AVEL 201 Flight Line Testing Lab 1 AVEL 201 Flight Line Testing Lab 1 AVEL 201 Avionics Systems I Lab 2 AVEL 225 Avionics Licensing/Regulations 1 AVEL 226 FAA Rules/Regs Avionics Techs 1 AVEL 230 Avionics Systems II Lab 2 AVEL 231 Avionics Systems II Lab 2 AVEL 230 Avionics Systems II Lab 3 AVEL 231 Avionics Instruments I 1 CISB 200 Info Sys Tech/Problem Solving 3 ELCT 101 Analog Problems 5 ELCT 112 Transistors 6 ELCT 112 Transistors 6 ELCT 120 Programming Preparation 2 ELCT 121 Linear Circuits I 3 ELCT 121 Linear Circuits I 3 ELCT 121 Linear Circuits I 3 ELCT 122 Linear Circuits I 3 ELCT 131 Oral Communic in the Workplace 3 </td <td></td> <td></td> <td></td>			
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ELCT 131 Digital Basics 3 ELCT 211 Linear Circuits I 3 ELCT 212 Linear Circuits II 3 ELCT 213 Advanced Digital Electronics 4 SPCH 110 Oral Communic in the Workplace 3 WRIT 124 Technical Writing 3 LIMITED CHOICE REQUIREMENTS TOTAL: 3 CREDITS Complete the indicated number of credits from each CHOICE listed below. CHOICE 1: General Education Core Areas 3 Credits (See the GENERAL EDUCATION section above) 0 9 Writing Core Area (See Note 1) 0 0 Science/Technology Core Area (See Note 1) 0 0 Global Perspectives and Diversity Core Area 3 3 Mathematics Competency (See page 23 for information on how to fulfill this requirement. Course work may be needed.) 0	ELCT 120		
ELCT 211 Linear Circuits I 3 ELCT 212 Linear Circuits II 3 ELCT 213 Advanced Digital Electronics 4 SPCH 110 Oral Communic in the Workplace 3 WRIT 124 Technical Writing 3 LIMITED CHOICE REQUIREMENTS TOTAL: 3 CREDITS Complete the indicated number of credits from each CHOICE listed below. CHOICE 1: General Education Core Areas 3 Credits (See the GENERAL EDUCATION section above) 0 0 Writing Core Area (See Note 1) 0 0 Speech Communication Core Area (See Note 1) 0 0 Science/Technology Core Area (See Note 1) 0 0 Global Perspectives and Diversity Core Area 3 3 Mathematics Competency (See page 23 for information on how to fulfill this requirement. Course work may be needed.) 0	ELCT-131		
ELCT 212 Linear Circuits II 3 ELCT 231 Advanced Digital Electronics 4 SPCH 110 Oral Communic in the Workplace 3 WRIT 124 Technical Writing 3 LIMITED CHOICE REQUIREMENTS TOTAL: 3 CREDITS Complete the indicated number of credits from each CHOICE listed below. CHOICE 1: General Education Core Areas 3 Credits (See the GENERAL EDUCATION section above) 0 0 Writing Core Area (See Note 1) 0 0 Science/Technology Core Area (See Note 1) 0 0 Global Perspectives and Diversity Core Area 3 Mathematics Competency (See page 23 for information on how to fulfill this requirement. Course work may be needed.) 0	ELCT 211		
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SPCH 110 Oral Communic in the Workplace 3 WRIT 124 Technical Writing 3 LIMITED CHOICE REQUIREMENTS TOTAL: 3 CREDITS Complete the indicated number of credits from each CHOICE listed below. CHOICE 1: General Education Core Areas 3 Credits (See the GENERAL EDUCATION section above) 0 Writing Core Area (See Note 1) 0 Science/Technology Core Area (See Note 1) 0 Global Perspectives and Diversity Core Area 3 Mathematics Competency (See page 23 for information on how to fulfill this requirement. Course work may be needed.) Minuteful TOTAL	ELCT 231	Advanced Digital Electronics	-
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Science/Technology Core Area (See Note 1) 0 Global Perspectives and Diversity Core Area 3 Mathematics Competency (See page 23 for information on how to fulfill this requirement. Course work may be needed.)		 Speech Communication Core Area (See Note 1) 	0
Mathematics Competency (See page 23 for information on how to fulfill this requirement. Course work may be needed.)		Science/Technology Core Area (See Note 1)	0
how to fulfill this requirement. Course work may be needed.)		Global Perspectives and Diversity Core Area	з
how to fulfill this requirement. Course work may be needed.)		Mathematics Competency (See page 23 for informatio	n on
MINIMUM TQTAL 69		how to fulfill this requirement. Course work may be new	eded.)
		MINIMUM TQTAL	69

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.

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.

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AVAF 130 AVIR 140 ELCT 101 ELCT 109 ELCT 110	AVEL 150 AVEL 151 CISB 200 ELCT 112	AVEL 190 AVEL 191 AVEL 200 AVEL 201	AVEL 220 AVEL 221 ELCT 211 ELCT 231
SPCH 110	ELCT 120 ELCT 131		Lim.Ch.

AVEL 225 AVEL 226 AVEL 230 AVEL 231

ELCT-212 WRIT-124

AVIATION

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AVIONICS INSTALLATION CERTIFICATE OF COMPLETION

Curriculum Code: 0847 (Effective Fall 2000-Summer 2005)

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 the *Course Descriptions* section of this catalog or the *Class Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Aviation Program at the LCC Aviation Center, telephone number (517) 483-1406.

REQUIREMENTS		TOTAL: 27 CREDITS
CODE	TITLE	CREDIT HOURS
AVAF 130	Avionics Airframe Applications	3
AVEL 150	Avionics Installat/Generat	2
AVEL 151	Avionics Installat/Generat Lab	1
AVEL 200	Flight Line Testing	· 2
AVEL 201	Flight Line Testing Lab	1
AVGM 113	Aviation General III	4
AVIR 140	Avionics Instruments I	1
ELCT 101	Analog Problems	5
ELCT 109	DC Circuits	3
ELCT 110	AC Circuits	3
ELCT 120	Programming Preparation	2
LIMITED CH		TOTAL: 2 CREDITS

LIMITED CHOICE REQUIREMENTS TOTAL: 2 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	Practical Experience	2 Credits
AVEL 297	Avionics Internship	2
AVEL 299	Advanced Avionics Laboratory	2
	MINIMUM TOTAL	29

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	AVEL 150	AVEL 200	
AVIR 140	AVEL 151	AVEL 201	
ELCT 101	AVGM 113	Lim.Ch.	
ELCT 109	ELCT 120		
ELCT 110			

POWERPLANT MAINTENANCE TECH ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0745 (Effective Fall 2000-Summer 2005)

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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Aviation Program at the LCC Aviation Center, telephone number (517) 483-1406.

REQUIREME	TITLE	TOTAL: 59 CREDITS 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	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

LIMITED CHOICE REQUIREMENTS TOTAL: 12 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	General Education Core Areas	12 Credits
(See the GEI	VERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	3
· · ·	Mathematics Competency (See page 23 for information	on on
	how to fulfill this requirement. Course work may be ne	
		71

NOTE

 Students must complete each course with a minimum grade of 70 percent and pass Pre-Tests for General and Powerplant with a minimum grade of 80 percent to be approved for the Federal Aviation Administration written tests.

STUGENTS 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.

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	H1	· 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.	

BUILDING MAINTENANCE ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0211 (Effective Fall 2000-Summer 2005)

Building maintenance workers are required to maintain the aesthetic and structural integrity of buildings. These include houses, apartments and commercial, industrial and institutional buildings. They may be responsible for maintenance and upkeep of all mechanical, plumbing and electrical equipment, as well as grounds-keeping. They should also be versatile enough to do routine painting, drywall, plastering, woodworking, pool and lawn maintenance, as well as some custodial work. Building maintenance workers can either be self-employed or work for apartment complexes, hospitals, office complexes, hotels, schools, commercial buildings or restaurants.

PREREQUISITES

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Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREM	ENTS	TOTAL: 59 CREDITS
GODE	TITLE	CREDIT HOURS
BLDR 101	Basic Woodworking	2
BLDR 132	General Home Maintenance	. 2
BLDT 121	Residential Framing	4
BLDT 126	Interior Carpentry	4
ELTE 100	Electrical Safety Practices	1
ELTE 112	Basic Wiring Installation	2
HORT 105	Pest/Problem Ornamental Plants	2
HVAC 100	Fundamentals of HVAC	3
HVAC 105	Sheet Metal Fabrication/Instal	2
HVAC 110	Applied Electricity I	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
HVAC 221	Introduction to Hydronics	3
HVAC 230	Air Conditioning II	4
HVAC 240	Refrigeration I	4
HVAC 241	Refrigeration II	4
LAND 133	Home Landscape Maintenance	3
LIMITED CH	OICE REQUIREMENTS	TOTAL: 12 CREDITS

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

CHOICE 1:	General Education Core Areas 12 C	redits
(See the GEI	VERAL EDUCATION section above)	
	Writing Core Area	З
	Speech Communication Core Area	З
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for information o	n
	how to fulfill this requirement. Course work may be neede	d.)
		71

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 seguence 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	111	۱۷	
BLDR 101	ELTE 112	BLDR 132	BLDT 126	
ELTE 100	HVAC 111	BLDT 121	HVAC 221	
HVAC 100	HVAC 120	HORT 105	HVAC 230	
HVAC 105	HVAC 130	HVAC 220	HVAC 240	
HVAC 110	HVAC 211	Lim.Ch.	LAND 133	
Lim.Ch.	Lim.Ch.	Lim.Ch.		
			and the second	

HVAC 241

BUILDING MAINTENANCE CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0237 (Effective Fall 2000-Summer 2005)

This program consists of practical hands-on courses that provide students with the necessary technical knowledge and skills needed for entry-level positions in the maintenance of residential and commercial buildings.

REQUIREMENTS		TOTAL: 37 CREDITS
CODE	TITLE	CREDIT HOURS
BLDR 101	Basic Woodworking	2
BLDR 132	General Home Maintenance	2
ELTE 100	Electrical Safety Practices	1
ELTE 112	Basic Wiring Installation	2
HVAC 100	Fundamentals of HVAC	Э
HVAC 105	Sheet Metal Fabrication/Instal	2
HVAC 110	Applied Electricity I	2
HVAC 111	Applied Electricity II	2
HVAC 120	Heating	4
HVAC 130	Air Conditioning I	4
HVAC 211	Schematics	3
HVAC 220	Heating II	4
HVAC 221	Introduction to Hydronics	3
LAND 133	Home Landscape Maintenance	3
LIMITED CH	OICE REQUIREMENTS	TOTAL: 4 CREDITS
Complete the	e indicated number of credits from each	CHOICE listed below.
CHOICE 1:	Maintenance Related	4 Credits
BLDT 121	Residential Framing	4
BLDT 126	Interior Carpentry	4
HVAC 230	Air Conditioning Íl	4

Refrigeration I MINIMUM TOTAL

SUGGESTED COURSE SEQUENCE

HVAC 240

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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ELTE	100	ELTE 112	BLDR 101	BLDR 132
HVAC	100	HVAC 111	HVAC 105	HVAC 130
HVAC	110	HVAC 120	HVAC 220	HVAC 221
LAND	133	HVAC 211	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 LANSING COMMUNITY COLLEGE CATALOG 2000-2001 # 75

www.lcc.edu

BUSINESS ADMINISTRATION ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0243 (Effective Fall 2000-Summer 2005)

This degree program provides basic instruction in key business areas, such as management, marketing, finances, computers and other business-related areas. Graduates of this program mey 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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

	INTS	TOTAL: 41 CREDITS
ACCG 210	Principles of Accounting I	4
BUSN 118	Introduction to Business	3
BUSN 201	International Business	3
CISB 200	Info Sys Tech/Problem Solving	3
ECON 201	Principles of Economics-Micro	3
LEGL 215	Busn Law I, Basic Principles	3
MATH 117	Math for Business	
MGMT 200	Creative Thinking for Business	3
MGMT 225	Principles of Management	3
MGMT 234	Diversity in the Workplace	3
MKTG 200	Principles of Marketing	3
SPCH 110	Oral Communic in the Workplace	3
WRIT 127	Business Writing	3
НМІТЕВ СНО	DICE REQUIREMENTS TO	
	indicated number of credits from each CHU	TAL: 20-23 CREDITS
	indicated namber of create north Each Chi	DICE RALEU DEIOW,
CHOICE 1:	General Education Core Areas (See No	te 1) 0 Credits
(See the GEN	ERAL EDUCATION section above)	¢
	Writing Core Area	0
	Speech Communication Core Area	0
	Science/Technology Core Area	0
	Global Perspectives and Diversity Core A	rea 0
	Mathematics Competency	
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:	Business Related (See Note 5)	6 Credits
ACCG 211	Principles of Accounting II	4
BUSN 251	Stock Market Essentials	3
ECON 202	Principles of Economics-Macro	3
ECON 213	U.S. Economic/Business History	3
LABR 200	Intro to Labor Relations	3
LABR 204	Employment Law for Managers	. 3
LEGL 216	Busn Law II, Commercial Law	3
LEGL 217	Busn Law III, Busn Organiza	3
	MINIMUM TOTAL	61

NOTES

- Students completing REQUIREMENTS have fulfilled the requirements for these Core areas.
- 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.
- Choose courses with a MKTG prefix that are not already used to meet degree requirements. BUSN 229 and/or BUSN 250 may also be used.
 Choose CABS-prefix courses of 110 or above.
- Students should conter with a Business Careers 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	10.	. IV .	
BUSN 118	BUSN 201	ACCG 210	LEGL 215	
MATH 117	CISB 200	ECON 201	Lim,Ch.	
SPCH 110	MGMT 234	MGMT 200	Lim.Ch.	
WRIT 127	MKTG 200	MGMT 225	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 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. **76 B LANSING COMMUNITY COLLEGE CATALOG 2000-2001**

BUSINESS

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2000-2001 Catalog Lansing Community College

INTERNATIONAL BUSINESS ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0240 (Effective Fail 2000-Summer 2005)

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. 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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

	INTS TOTAL: 34 CREDITS	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	3
CIS8 200	Info Sys Tech/Problem Solving	3
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: 26 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	General Education Core Areas	3 Credit	5	
(See the GENI	ERAL EDUCATION section above)			
•	Writing Core Area	:	Э	
	Speech Communication Core Area (See Note 1)	I	0	
	Science/Technology Core Area (See Note 1)		0	
	Global Perspectives and Diversity Core Area (See Note 1) 0			
	Mathematics Competency (See page 23 for inform	nation on		
	how to fulfill this requirement. Course work may be			
CHOICE 2:	Foreign Language (Choose one subchoice)	8 Credit	8	
Subchoice 2A				
			4	

FREN 121	Elementary French I	4	
FREN 122	Elementary French II	4	
Subchoice 28	· ·		
GRMN 121	Elementary German	4	
GRMN 122	Elementary German II	4	
Subchoice 2C	;		
JAPN 121	Elementary Japanese I	4	
JAPN 122	Elementary Japanese II	4	
Subchoice 2D			
SPAN 121	Elementary Spanish I	4	
SPAN 122	Elementary Spanish II	4	

CHOICE 3:	International/Business Related (See Note 2)	15 Credits
ACCG 211	Principles of Accounting II	4
BUSN 295	Small Business Management	. 3
GEOG 200	World Regional Geography	. 4
GEOG 203	Economic Geography	3
HUMS 213	World Civilizations I	4 5
HUMS 214	World Civilizations II	4
LEGL 215	Busn Law I, Basic Principles	3
MGMT 225	Principles of Management	3
MGMT 231	Team Development	3
MGMT 237	Managing/Continual Improvement	. 3
MGMT 280	Management Internship	3
MKTG 210	Marketing on the Internet	2
MKTG 235	Marketing Internship	3
POLS 270	International Relations	3
	MINIMUM TOTAL	60

NOTES

- 1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area
- 2. Students should confer with a Business Careers 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	111	١٧
BUSN 118 CISB 100 SPCH 110 Lim.Ch.1	BUSN 201 ECON 201 MKTG 119 MKTG 200 Lim.Ch.3	ACCG 210 CISB 200 ECON 202 Lim.Ch.2	MGMT 234 Lim.Ch.2 Lim.Ch.3 Lim.Ch.3
Lim.Ch.3	Lim, Un.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 SEFICE 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 2000-2001 # 77

CIVIL TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0178 (Effective Fall 2000-Summer 2005)

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 petroleum and mining companies.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 60 CREDITS
CODE		CREDIT HOURS
CIVL 101	Civil Drafting	4
CIVL 120	Surveying	4
CIVL 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	4
MATH 115	Technical Math II	4
PHYS 200	Applied Physics	4
SOCL 120	Introduction to Sociology	. 4
SPCH 120	Dynamics of Communication	3
LIMITED CHOICE REQUIREMENTS		TOTAL: 6 CREDITS

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

CHOICE 1:		Credits
(See the GEN	ERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area (See Note 1)	0
	Science/Technology Core Area	з
	Global Perspectives and Diversity Core Area (See Note	1) 0
	Mathematics Competency (See Note 1)	
	MINIMUM TOTAL	66

NOTES

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

2. Students who are interested in practical field experience may apply for the Student Civil Technician Co-op Program. Contact the Technology Careers Coop Coordinator at 483-1383.

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	14	
CIVL 120	CIVL 101	GRET 203	CIVL 132	
MATH 114	CIVL 124	MATH 115	CIVL 136	
SPCH 120	CIVL 131	PHYS 200	CIVL 241	
Lim Ch.	CIVL 135	SOCL 120		
Lim.Ch.	CIVL 200			

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 DNE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE. 78 B LANSING COMMUNITY COLLEGE CATALOG 2000-2001

COMPUTER-AIDED DRAFTING AND DESIGN

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CAD/CAM TECHNICIAN ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0892 (Effective Fall 2000-Summer 2005)

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 44 CREDITS
CODE	TITLE	CREDIT HOURS
CNCP 110	Foundations of CNC Programming	4
CNCP 130	Machine Controls and Setup	4
CNCP 210	Mastercam	4
DTDS 101	Drafting I	4
DTDS 102	Drafting II	4
DTDS 103	Geometric Tolerancing	2
DTDS 104	Descriptive Geometry	4
MACH 100	Manufacturing Processes	4
MACH 105	Machine Tool Survey	3
MACH 110	Machine Tool Technology I	4
MACH 111	Machine Tool Technology II	4
MATH 141	Calculus with Applications	3

TOTAL: 28 CREDITS LIMITED CHOICE REQUIREMENTS

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

CHOICE 1:	General Education Core Areas	12 Credits
(See the GEN	IERAL EDUCATION section above)	
	Writing Core Area	Э
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	Э
	Mathematics Competency (See page 23 for inform	ation on
	how to fulfill this requirement. Course work may be	needed.)
CHOICE 2:	Physics	4 Credits
PHYS 200	Applied Physics	4
PHYS 201	Introductory Physics I	4
CHOICE 3:	Computer Graphics (Choose one subchoice. See Note	e 1) 12 Credits
Subchoice 3/	A.	
DTDS 131	AutoCAD Basic 2-D	4
DTDS 132	AutoCAD Advanced 3-D	. 4
DTDS 233	AutoCAD Mechanical Desktop	4
Subchoice 31	3	
DTDS 180	Unigraphics I	4
DTDS 181	Unigraphics II	4
DTDS 182	Unigraphics III	4
	MINIMUM TOTAL	72

MINIMUM TOTAL

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL COCUMENTATION 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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NOTES 1. The Computer Graphics series (Choice 3, 12 credits) may be replaced by another approved computer graphics software package available through the Drafting and Design Program. See a Drafting and Design program advisor for more information.

2. Some prerequisites to courses may be waived based on experience. 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	11	11 ·	IV
DTDS 101	DTDS 102	CNCP 110	CNCP 130
MACH 100	DTDS 103	DTDS 104	CNCP 210
MACH 105	MACH 110	MACH 111	Lim.Ch.1
MATH 141	Lim.Ch.2	Lim.Ch.1	Lim.Ch.1
Lim.Ch.1	Lim.Ch.3	Lim.Ch.3	Lim.Ch.3

COMPUTER-AIDED DRAFTING/DESIGN ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0165 (Effective Fall 2000-Summer 2005)

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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREME CODE		OTAL: 41 CREDITS
· · · · · · · · · · · · · · · · · · ·		CREDIT HOURS
CNCP 105	Basic Machining Processes	3
DTDS 101 DTDS 102	Drafting I Drafting II	4
DTDS 102	0	4
DTDS 103	Geometric Tolerancing Descriptive Geometry	2
DTDS 104	Discriptive Geometry Die Design and Construction	4
DTDS 202	Jigs and Fixture Design	4
MACH 100	Manufacturing Processes	4
MACH 100	Manuaciuming Processes Metallurgy and Heat Treat	4
MACH 133 MATH 114	Technical Math I	4
MATH 114 MATH 115	Technical Math II	4
		4
LIMITED CH	OICE REQUIREMENTS TO	OTAL: 24 CREDITS
Complete the	indicated number of credits from each CHOIC	Eilisted below.
CHOICE 1:	General Education Core Areas	12 Credits
(See the GEI	NERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See Note 1)	
CHOICE 2:	Computer Graphics (Choose one subchoice. Se	e Note 2) 12 Credits
Subchoice 2		
DTDS 131	AutoCAD Basic 2-D	4
DTDS 132	AutoCAD Advanced 3-D	4
DTDS 233	AutoCAD Mechanical Desktop	4
Subchoice 2	-	
DTDS 180	Unigraphics I	4
DTDS 181	Unigraphics II	4
DTDS 182	Unigraphics III	4
	MINIMUM TOTAL	65
NOTES		

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

 The Computer Graphics series (12 credits) may be replaced by another approved computer graphics software package available through the Drafting and Design Program. See a Drafting and Design 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.

<u> </u>	1	H	ŧ٧	
DTDS 101	DTDS 102	CNCP 105	DTDS 204	
DTDS 103	DTDS 104	DTDS 202	MACH 135	
MACH 100	MATH 115	Lim.Ch.1	Lim.Ch.1	
MATH 114	Lim.Ch.1	Lim.Ch.1	Lim Ch.2	
	Lim.Ch.2	Lim.Ch.2		

COMPUTER-AIDED DRAFTING/DESIGN CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0145 (Effective Fall 2000-Summer 2005)

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.

REQUIREMENTS		TOTAL: 22 CREDITS
CODE	TITLE	CREDIT HOURS
DTDS 101	Drafting I	4
DTDS 102	Drafting II	4
DTDS 103	Geometric Tolerancing	2
DTDS 104	Descriptive Geometry	4
MACH 100	Manufacturing Processes	4
MATH 114	Technical Math I	4
LIMITED CHOICE REQUIREMENTS TOTAL: 12 CREDITS Complete the indicated number of credits from <i>each</i> CHOICE listed below.		

CHOICE 1:	Computer Graphics (Choose one subchoice. See Note 1) 12	Credits
Subchoice 1/	\ \	
DTDS 131	AutoCAD Basic 2-D	4
DTDS 132	AutoCAD Advanced 3-D	4
DTDS 233	AutoCAD Mechanical Desktop	4
Subchoice 18	3	
DTDS 180	Unigraphics I	4
DTDS 181	Unigraphics II	4
DTDS 182	Unigraphics III	4
	MINIMUM TOTAL	34

NOTE

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> The Computer Graphics series (12 credits) may be replaced by another approved computer graphics software package available through the Drafting and Design Program. See a Drafting and Design 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.

ł	н	18
DTDS 101	DTDS 102	Lim.Ch.
MACH 100	DTDS 103	
MATH 114	DTDS 104	
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.

COMPUTER NETWORK/COMMUNICATION ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0791 (Effective Fall 2000-Summer 2005)

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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REQUIREME	NTS	TOTAL: 40 CREDITS
CODE	TITLE	CREDIT HOURS
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 130	Data Communications	3
CISB 133	Operating Systems	3
CISB 200	Info Sys Tech/Problem Solving	3
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 Windows NT Server	3
CISB 253	WWW Interactive Programming	4
CISB 258	Developing Pages for the Web	3
LIMITED CH	DICE REQUIREMENTS	TOTAL: 20 CREDITS
Complete the	indicated number of credits from each CHC	ICE listed below.
CHOICE 1:	General Education Core Areas	9 Credits
(See the GEf	VERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area	3
	Science/Technology Core Area (See Note	1) 0
	Global Perspectives and Diversity Core Ar	rea 3
	Mathematics Competency (See page 23 I	or information on
	how to fulfill this requirement. Course wor	k may be needed.)
CHOICE 2:	Computer Specialty Area (See Note 2)	11 Credits
CABS 110	Microsoft Office	3
CABS 210	Advanced Microsoft Office	3
CISB 122	Adv Windows Prog Visual BASIC	3
CISB 136	SQL: Structured Query Language	2
CISB 141	Powerbuilder	3
CISB 143	ORACLE Database for Business	3
CISB 151	Using Lotus Notes	2
CISB 180	C Programming Busn App	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	60

NOTES

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COMPUTERS

- 1. Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area.
- Other CABS or CISB-prefix courses may be approved for Choice 2 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

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	24	111	IV .	
CABS 195	CISB 130	CISB 200	CISB 231	
CISB 100	CISB 133	CISB 204	CISB 233	
CISB 102	Lim.Ch.1	CISB 230	CISB 253	
CISB 119	Lim.Ch.2	Lim,Ch.1	CISB 258	
Lim.Ch.2		Lim.Ch.2	Lim.Ch,1	
			Lim.Ch.2	

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COMPUTER REPAIR TECHNICIAN CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0168 (Effective Fall 2000-Summer 2005)

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.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS CODE TITLE		TOTAL: 25 CREDITS
ELCT 100	Schematic Drawing	CREDIT HOURS
ELCT 151 ELCT 160	Computer Troubleshooting Logic Problems Analysis	3
ELCT 161 ELCT 170	Soldering/Desoldering	3 1
ELCT 171	Computer Repair Electronics I Computer Repair Electronics II	. 6
ELCT 180 ELCT 181	Computer Test Equipment I Computer Test Equipment II	, - 3
	sompater reat Edupment it	2

LIMITED CHOICE REQUIREMENTS

TOTAL: 6-7 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	Software	3 Credits
CABS 195	Microsoft Windows	
CISB 107	DOS Management	2
CISB 130	Data Communications	1
CISB 133	Operating Systems	3
CISB 230	Intro to Local Area Networks	. 3,
ELCT 120		Э
ECG1 120	Programming Preparation	2
CHOICE 2:	Communication	3–4 Credits
SPCH 110	Oral Communic in the Workplace	3
WRIT 117	Writing Preparation II	4
WRIT 124	Technical Writing	3
	. .	3
	MINIMUM TOTAL	, 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.

1	1	
ELCT 100	ELCT 151	
ELCT 160	ELCT 171	
ELCT 161	ELCT 181	
ELCT 170	Lim.Ch.	
ELCT 180	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. 82 E LANSING COMMUNITY COLLEGE CATALOG 2000-2001

COMPUTER SECURITY AND CONTROLS ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0253 (Effective Fall 2000-Summer 2005)

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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REOUIREMI	ENTS TITLE	TOTAL: 50 CREDITS CREDIT HOURS
ACCG 210	Principles of Accounting I	. 4
ACCG 211	Principles of Accounting II	4
ACCG 220	Intermediate Accounting I	4
ACCG 221	Intermediate Accounting II	4
ACCG 290	Auditing	3
CISB 100	Intro Computer Info Systems	3
CISB 114	Programming Logic	. 3
CISB 130	Data Communications	3
CISB 133	Operating Systems	3
CISB 136	SQL: Structured Query Language	2
CISB 170	COBOLI	4
CISB 230	Intro to Local Area Networks	з
CISB 250	Database Concepts	3
CISB 260	Systems Analysis and Design	4
CISB 270	CQBOL II	3

LIMITED CHOICE REQUIREMENTS TOTAL: 12 CREDITS

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

CHOICE 1:	General Education Core Areas 1	2 Credits
(See the GEN	ERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	. 3
	Mathematics Competency (See page 23 for information	n on
	how to fulfill this requirement. Course work may be nee	ded.)
	MINIMUM TOTAL	62

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	1I	11	IV .
ACCG 210	ACCG 211	ACCG 220	ACCG 221
CISB 100	CISB 130	CISB 133	CISB 250
CISB 114	CISB 170	CISB 230	Lim.Ch.
CISB 136	CISB 260	CISB 270	Lim.Ch.
Lim.Ch.		Lim.Ch.	

ACCG 290

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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ELECTRONICS, COMPUTER TECH ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0743 (Effective Fall 2000–Summer 2005)

A computer service technician is highly knowledgeable in both computer hardware and software. This person must not only understand the operation of the computer system but must also diagnose and repair the system when it fails, make upgrades and perform preventive maintenance. A computer service technician also answers customers' questions relating to correct use of computers or components and may install new equipment. A successful computer service technician must understand electronics, computer hardware and software, and how they work together to make the computer operate. Computer service technicians are employed in computer sales and service shops and any place a large number of computers are found. 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* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Tachnology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMI CODE	ENTS TITLE	TOTAL: 59 CREDITS CREDIT HOURS
CABS 133	Microsoft Access Database	2
CABS 195	Microsoft Windows	. 2
CISB 107	DOS Management	. 1
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 231	Advanced Local Area Networks	3
CISB 236	Microcomputer Software Support	3
ELCT 100	Schematic Drawing	1
ELCT 120	Programming Preparation	2
ELCT 151	Computer Troubleshooting	3
ELCT 160	Logic Problems Analysis	3
ELCT 161	Soldering/Desoldering	1
ELCT 170	Computer Repair Electronics I	6
ELCT 171	Computer Repair Electronics II	6
ELCT 180	Computer Test Equipment I	3
ELCT 181	Computer Test Equipment II	2
SPCH 110	Oral Communic in the Workplace	3
WRIT 124	Technical Writing	3

LIMITED CHOICE REQUIREMENTS TOTAL: 7 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	General Education Core Areas	3 Credits
(See the GE	NERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area (See Note 1)	0
	Science/Technology Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area	Э
	Mathematics Competency (See page 23 for informa	tion on
	how to fulfill this requirement. Course work may be r	needed.)
CHOICE 2:	Word Processing	2 Credits
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CABS 119	Word for Windows	2
CABS 121	WordPerfect for Windows	2

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CHOICE 3:	Spreadsheet	2 Credits
CABS 126	Excel	2
CABS 128	Lotus 1-2-3 for Windows	2
	MINIMUM TOTAL	86

NOTES

- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Students interested in specializing in microcomputer software support should review the curriculum guide for Microcomp Support Specialist, #10713.

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	١٧	
ELCT 100	CISB 114	CABS 195	CABS 133	
ELCT 120	CISB 130	CISB 107	CISB 133	
ELCT 160	ELCT 151	CISB 200	CISB 231	
ELCT 161	ELCT 171	CISB 230	CISB 236	
ELCT 170	ELCT 181	WRIT 124	Lim.Ch.	
ELCT 180		Lim.Ch.		
SPCH 110	,	Lim.Ch.		

INTERNET FOR BUSINESS CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0794 (Effective Fall 2000-Summer 2005)

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.

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Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information, Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

REOUREME	ENTS	TOTAL: 25 CREDITS
CODE	TITLE	CREDIT HOURS
CABS 195	Microsoft Windows	2
CISB 100	Intro Computer Info Systems	3
CISB 102	Internet Litaracy	. 3
CISB 119	Intro Window Prog Visual BASIC	4
CISB 130	Data Communications	3
CISB 204	Commercial Internet Site Mgmt	3
CISB 258	Developing Pages for the Web	3
WRIT 121	Composition I	. 4
	OICE REQUIREMENTS indicated number of credits from each	TOTAL: 6–7 CREDITS
CHOICE 1:	Programming	3-4 Credits
CISB 253	WWW Interactive Programming	4
CISB 283	Intro to JAVA Programming	3
CHOICE 2:	Speech Communication	3 Credits
SPCH 110	Oral Communic in the Workplace	3
SPCH 120	Dynamics of Communication	3
	MINIMUM TOTAL	31

NOTE

 For graduation from this program, a student must have earned a minimum 2.0 grade in each course with CABS and CISB prefixes.

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	181
CABS 195	CISB 130	CISB 204
CISB 100	CISB 258	WRIT 121
CISB 102	Lim.Ch.	Lim.Ch.
CISB 119		

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COMPUTERS

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MICROCOMP DATABASE SPECIALIST ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0922 (Effective Fall 2000-Summer 2005)

As the Information Age matures, decisions 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 using industry-standard database tools. Even in large organizations, these solutions 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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REQUIREMENTS CODE TITLE		TOTAL: 40 CREDITS CREDIT HOURS
CABS 133	Microsoft Access Database	2
CABS 232	Advanced Microsoft Access	2
CISB 100	Intro Computer Info Systems	3
CISB 114	Programming Logic	3
CISB 119	Intro Window Prog Visual BASIC	4
CISB 122	Adv Windows Prog Visual BASIC	. 3
CISB 130	Data Communications	3
CISB 133	Operating Systems	3
CISB 136	SQL: Structured Query Language	. 2
CISB 143	ORACLE Database for Business	2
CISB 200	Info Sys Tech/Problem Solving	3
CISB 230	Intro to Local Area Networks	3
CISE 250	Database Concepts	3
CISB 260	Systems Analysis and Design	4

LIMITED CHOICE REQUIREMENTS TOTAL: 20-21 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: General Education Core Areas 9 Credits (See the GENERAL EDUCATION section above) Writing Core Area 3 Speech Communication Core Area з Science/Technology Core Area (See Note 1) n **Global Perspectives and Diversity Core Area** Э Mathematics Competency (See page 23 for information on how to fulfill this requirement. Course work may be needed.) CHOICE 2: Computer Speciality Area (See Note 3) 9 Credits CABS 195 **Microsoft Windows** CABS 234 Programming Microsoft Access 2 **CISB 102** Internet Literacy з Commrcial Internet Site Mgmt **CISB 204** з CISB 231 Advanced Local Area Networks з CISB 235 Microcomputer Hardware Support з CISB 236 Microcomputer Software Support З WWW Interactive Programming **CISB 253** 4 CISB 258 Developing Pages for the Web З

CHOICE 3:	Computer Related		23 Credits
CISB 245	Programming Internship		З
CISB 247	Microcomputer Project		2
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NOTES

- 1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area
- For graduation, a student must have earned a minimum 2.0 grade in all 2. courses.
- 3. Other CABS or CISB-prefix courses may be approved for Choice 2 by a Computer Information Systems Academic Program advisor.

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 * *	11	· HI	IV
CABS 133	CABS 232	CISB 119	CISB 122
CISB 100	CISB 130	CISB 200	CISB 260
CISB 114	CISB 133	CISB 230	Lim.Ch.1
CISB 136	CISB 143	CISE 250	Lim.Ch.2
Lim.Ch.1	Lim.Ch.2	Lim.Ch.1	Lim Ch.3
Lim.Ch.2			· · · ·

MICROCOMP DATABASE SPECIALIST **CERTIFICATE OF ACHIEVEMENT**

Curriculum Code: 0917 (Effective Fall 2000-Summer 2005)

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.

	INTS	TOTAL: 30 CREDITS CREDIT HOURS
CABS 133	Microsoft Access Database	2
CABS 195	Microsoft Windows	2
CABS 232	Advanced Microsoft Access	2
CABS 234	Programming Microsoft Access	2
CISB 100	Intro Computer Info Systems	3
CISB 114	Programming Logic	3
CISB 130	Data Communications	3
CISB 136	SQL: Structured Query Language	2
CISB 143	ORACLE Database for Business	2
CISB 200	Info Sys Tech/Problem Solving	
CISB 230	Intro to Local Area Networks	3
CISB 250	Database Concepts	3
	MINIMUM TOTAL	30

NOTE

1. 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 acadamic advisor or counselor for help with adjustments.

	11	
CABS 133	CABS 232	:
CABS 195	CABS 234	
CISB 100	CISB 143	
CISB 114	CISB 200	
CISB 130	CISB 230	
CISB 136	CISB 250	

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MICROCOMP SUPPORT SPECIALIST ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0713 (Effective Fall 2000-Summer 2005)

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

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Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Business Careers Department Office, Old Central Building, Room 210, telephone number 483-1522.

EQUIREME	NTS TITLE	FOTAL: 38 CREDITS CREDIT HOURS
ABS 133	Microsoft Access Database	2
ABS 182	Microsoft PowerPoint/Windows	2
ABS 195	Microsoft Windows	2
ABS 232	Advanced Microsoft Access	. 2
ABS 234	Programming Microsoft Access	2
SB 100	Intro Computer Info Systems	3
SB 102	Internet Literacy	3
SB 119	Intro Window Prog Visual BASIC	4
SB 130	Data Communications	3
SB 133	Operating Systems	3
SB 200	Info Sys Tech/Problem Solving	3
SB 230	Intro to Local Area Networks	3
SB 235	Microcomputer Hardware Support	3
SB 236	Microcomputer Software Support	3
	DICE REQUIREMENTS TOTA indicated number of credits from each CHOI	AL: 22-26 CREDITS CE listed below.
OICE 1:	General Education Core Areas	9 Credits
ee the GEN	ERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area	3
	Science/Technology Core Area (See Note 1) 0
	Global Perspectives and Diversity Core Area	
	Mathematics Competency (See page 23 for how to fulfill this requirement. Course work i	information on nay be needed.)
OICE 2:	Word Processing	4–5 Credits
NBS 119	Word for Windows	2
BS 121	WordPerfect for Windows	2
BS 180	Desktop Publishing Pagemaker	3
BS 219	Advanced Microsoft Word	2
OICE 3:	Spreadsheets	4 Credits
BS 126	Excel	2
BS 128	Lotus 1-2-3 for Windows	2
BS 129	Excel-Advanced	2
		-
OICE 4:	Computer Related (See Note 2)	2–4 Credits
SB 231	Advanced Local Area Networks	3
SB 247	Microcomputer Project	2
SB 250	Database Concepts	з
SB 258	Developing Pages for the Web	3
SB 260	Systems Analysis and Design	

CHOICE 5:	Accounting	3-4 Credits
ACCG 100	Practical Accounting Non-Major	3
ACCG 210	Principles of Accounting I	4
		60

MINIMUM TOTAL

NOTES

- 1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Students may also select from any course with a CABS or CISB prefix not 2. already used to meet degree requirements.
- Э. 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.

t	11	· 111	IV
CABS 182	CABS 133	CABS 232	CISB 230
CABS 195	CISB 102	CABS 234	CISB 235
CISB 100	CISB 119	CISB 130	CISB 236
Lim.Ch.	Lim.Ch.	CISB 133	Lim.Ch.
Lim.Ch.	Lim.Ch.	CISB 200	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 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 2000-2001 # 87

COMPUTERS

2000-2001 Catalog Lansing Community College

PROGRAMMER/ANALYST ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0113 (Effective Fall 2000–Summer 2005)

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.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REQUIREME		TOTAL: 33 CREDITS
CODE	TITLE	CREDIT HOURS
ACCG 210	Principles of Accounting I	× 4 .
CISB 100	Intro Computer Info Systems	3
CISB 114	Programming Logic	3
CISB 130	Data Communications	Э
CISB 133	Operating Systems	3
CISB 170	COBOLI	4
CISB 200	Info Sys Tech/Problem Solving	Э
CISB 250	Database Concepts	3 /
CISB 260	Systems Analysis and Design	4
CISB 270	COBOLII	3
		TOTAL: 27 CREDITS
Complete the	indicated number of credits from each CHOI	ICE listed below.
CHOICE 1:	General Education Core Areas	9 Credits
(See the GEN	IERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area	. 3
	Science/Technology Core Area (See Note	
	Global Perspectives and Diversity Core Are	
	Mathematics Competency (See page 23 fo	
	how to fulfill this requirement. Course work	may be needed.)
CHOICE 2:	Additional Language (Choose one subch	oice) 7 Credits
Subchoice 2		
CISB 119	Intro Window Prog Visual BASIC	4
CISB 122	Adv Windows Prog Visual BASIC	3
Subchoice 2	—	-
CISB 180	Intro to C/C++ Program for Bus	3
CISB 280	Adv C/C++ Program with OOP	4
CHOICE 3:	Computer Related (See Note 2)	11 Credits
CABS 110	Microsoft Office	
CABS 195	Microsoft Windows	. 2
CISB 102	Internet Literacy	3
CISB 136	SQL: Structured Query Language	2
CISB 141	Powerbuilder	3
CISB 143	ORACLE Database for Business	2
CISB 230	Intro to Local Area Networks	3
CISB 245	Programming Internship	Э
CISB 253	WWW Interactive Programming	4
CISB 283	Intro to JAVA Programming	3
		60

NOTES

- Students completing REQUIREMENTS have tulfilled the requirements for this Core area.
- Studants may also select from unchosen courses in Choice 2 or any course with a CISB prefix not already used to meet degree requirements.
- 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

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	ŧI .	411	IV	
ACCG 210	CISB 130	CISB 170	CISB 270	
CISB 100	CISB 133	CISB 200	Lim.Ch.1	
CISB 114	CISB 250	CISB 260	Lim.Ch.3	
Lim.Ch.1	Lim,Ch,1	Lim.Ch.2	Lim.Ch.3	
	Lim.Ch.2	Lim.Ch.3	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 PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

ADV PC APPLICATION SPECIALIST CERTIFICATE OF COMPLETION

Curriculum Code: 0765 (Effective Fall 2000-Summer 2005)

This certificate of completion is designed for students who either hold a postsecondary degree (associate or bachelor) in a Computer Information Systemsrelated area or have 3 or more years work experience in a Computer Information Systems-related job. To receive this certificate of completion, applicants must attach proof of a degree or work experience to the application for the certificate.

PREREQUISITES

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Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

REQUIREME	ENTS	TOTAL: 18 CREDITS
CODE	TITLE	CREDIT HOURS
CABS 119	Word for Windows	2
CABS 126	Excel	2
CABS 129	Excel-Advanced	2
CABS 133	Microsoft Access Database	2
CABS 182	Microsoft PowerPoint/Windows	2
CABS 195	Microsoft Windows	2
CABS 219	Advanced Microsoft Word	2
CABS 232	Advanced Microsoft Access	2
CABS 234	Programming Microsoft Access	2
	MINIMUM TOTAL	18

NOTE

1. A minimum of 2.0 grade is each course with a CABS or CISB prefix is required.

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 seguence 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	41	
CABS 119	CABS 129	1
CABS 126	CABS 182	
CABS 133	CABS 219	
CABS 195	CABS 232	
	CABS 234	

PC USER SUPPORT SPECIALIST **CERTIFICATE OF COMPLETION**

Curriculum Code: 0766 (Effective Fall 2000-Summer 2005)

This certificate of completion is designed for students who either hold a post-secondary degree (associate or bachelor) in a Computer Information Systems-related area or have three or more years work experience in a Computer Information Systems-related job. To receive this certificate of completion, applicants must attach proof of a degree or work experience to the application for the certificate.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

REQUIREMENTS		TOTAL: 17 CREDITS
CODE	TITLE	CREDIT HOURS
CABS 195	Microsoft Windows	2
CISB 200	Info Sys Tech/Problem Solving	3
CISB 230	Intro to Local Area Networks	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 DNE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

COMPUTERS - ADVANCED www.lcc.edu

	MINIMUM TOTAL	.17
CISB 236	Microcomputer Software Support	3
CISB 235	Microcomputer Hardware Support	3
CISB 231	Advanced Local Area Networks	3
CISB 231	Advanced Local Area Networks	3

NOTE

1. A minimum 2.0 grade in each course with a CABS or CISB prefix is required.

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
CISB 200
CISB 231
CISB 236

WINDOWS PROGRAMMING SPECIALIST CERTIFICATE OF COMPLETION

Curriculum Code: 0763 (Effective Fall 2000-Summer 2005)

This certificate of completion is designed for students who either hold a post-secondary degree (associate or bachelor) in a Computer Information Systems-related area or have three or more years work experience in a Computer Information Systems-related job. To receive this certificate of completion, applicants must attach proof of a degree or work experience to the application for the certificate.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

	ENTS TITLE	TOTAL: 12 CREDITS CREDIT HOURS
CABS 195	Microsoft Windows	2
CISB 119	Intro Window Prog Visual BASIC	4
CISB 122	Adv Windows Prog Visual BASIC	3
CISB 281	Visual C++ Programming	3
IMITED CHOICE BEOMBEMENTS		

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

CHOICE 1:	Multimedia	3-4 Credits
CISB 253	WWW Interactive Programming	4
CISB 258	Developing Pages for the Web	3
CISB 283	Intro to JAVA Programming	Э
	MINIMUM TOTAL	15

NOTE

1. A minimum 2.0 grade in each course with a CABS or CISB prefix is required.

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	81	48)
CABS 195	CISB 122	CISB 281
CISB 119	Lim. Ch.	

LANSING COMMUNITY COLLEGE CATALOG 2000-2001 # 89

RESIDENTIAL BUILDING ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0167 (Effective Fall 2000-Summer 2005)

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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

		OTAL: 46 CREDITS
CODE	TITLE	CREDIT HOURS
ARCH 271	Structural Theory	4
ARCH 278	Energy Efficient Design	4
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	International Code	3
MATH 114	Technical Math I	4
MATH 115	Technical Math II	4
LIMITED CH	OICE REQUIREMENTS TO	OTAL: 18 CREDITS
	OICE REQUIREMENTS TO e indicated number of credits from <i>each</i> CHOIC	
Complete the	e indicated number of credits from <i>each</i> CHOIC General Education Core Areas	
Complete the	e indicated number of credits from each CHOIC	E listed below,
Complete the	e indicated number of credits from <i>each</i> CHOIC General Education Core Areas	E listed below,
Complete the	e indicated number of credits from <i>each</i> CHOIC General Education Core Areas NERAL EDUCATION section above) Writing Core Area Speech Communication Core Area	E listed below, 12 Credits
Complete the	e indicated number of credits from <i>each</i> CHOIC General Education Core Areas NERAL EDUCATION section above) Writing Core Area	E listed below. 12 Credits 3
Complete the	e indicated number of credits from <i>each</i> CHOIC General Education Core Areas NERAL EDUCATION section above) Writing Core Area Speech Communication Core Area	E listed below. 12 Credits 3 3
Complete the	e indicated number of credits from <i>each</i> CHOIC General Education Core Areas NERAL EDUCATION section above) Writing Core Area Speech Communication Core Area Science/Technology Core Area	E listed below. 12 Credits 3 3 3 3
Complete the	e indicated number of credits from <i>each</i> CHOIC General Education Core Areas NERAL EDUCATION section above) Writing Core Area Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Core Area	E listed below. 12 Credits 3 3 3 3
Complete th CHOICE 1: (See the GE	e indicated number of credits from <i>each</i> CHOIC General Education Core Areas NERAL EDUCATION section above) Writing Core Area Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Core Area Mathematics Competency (See Note 1)	E listed below. 12 Credits 3 3 3 3 3
Complete the CHOICE 1: (See the GE CHOICE 2:	e indicated number of credits from each CHOIC General Education Core Areas NERAL EDUCATION section above) Writing Core Area Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Core Area Mathematics Competency (See Note 1) Building/Business Related	E listed below. 12 Credits 3 3 3 3 6 Credits

MINIMUM TOTAL

Introduction to Business

Surveying

Residential Building Intern

NOTE

BLDT 285

BUSN 118

CIVL 120

 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	11	111	IV	
BLDT 100	ARCH 278	BLDT 126	ARCH 271	
BLDT 103	BLDT 124	BLDT 277	BLDT 262	
BLDT 121	MATH 115	Lim.Ch.	BLDT 281	
MATH 114	Lim.Ch.	Lim.Ch.	Lim.Ch.	
Lim.Ch.	Lim.Ch.		1	
			and the second	

RESIDENTIAL BUILDING CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0135 (Effective Fall 2000-Summer 2005)

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.

REQUIREMENTS		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	International Code	3
MATH 050	Math-Principles and Practices	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.

<u>I</u>	11
BLDT 100	BLDT 103
BLDT 121	BLDT 124
BLDT 126	BLDT 277
MATH 050	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 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. 90 IL LANSING COMMUNITY COLLEGE CATALOG 2000-2001

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COURT REPORTING ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0273 (Effective Fall 2000-Summer 2005)

Reporters are communication specialists who use a steno machine to make a verbatim record of legal proceedings and produce an accurate transcript of what was said. They can also be realtime reporters and/or captioners, providing instant translation for deaf or hard-of-hearing persons. Court reporters work in all environments where a verbatim record is needed or voice-to-text translation is required for communication access. Official reporters work in the courtroom. Freelance reporters work in a freelance firm or home office. Realtime reporters work in a classroom or conference setting. Captioners work at a television station. State certification is required and national certification is highly recommended. 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 Court Reporting Program.

PREREQUISITES

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Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

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 2000-2001 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 COURT AND CONFERENCE REPORTING PROGRAM

For current information about admission requirements, students must contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

	ENTS TITLE	TOTAL: 45 CREDITS CREDIT HOURS
CTRT 100	Machine Shorthand Theory I	6
CTRT 110	Machine Shorthand Theory II	6
CTRT 120	Summer Skill Building I	3
CTRT 200	Court Reporting	6
CTRT 210	Court Reporting II	6
CTRT 220	Summer Skill Building II	3
CTRT 230	Advanced Skill Building	4
CTRT 235	English for Court Reporters	. 1
CTRT 240	CAT-Comp-Aided Transcription	2
CTRT 245	Realtime Reporting	1
CTRT 250	Medical Vocab/Court Report I	1
CTRT 255	Medical Vocab/Court Report II	1
CTRT 260	Legal Vocab/Court Reporters	1
CTRT 265	Captioning	1
CTRT 270	Court Reporting Procedures	2
CTRT 275	Internship (See Note 1)	1

LIMITED CHOICE REQUIREMENTS	TOTAL: 15 CREDITS
Complete the indicated number of credits fro	m each CHOICE listed below.

CHOICE 1: **General Education Core Areas** 12 Credits (See the GENERAL EDUCATION section above) Writing Core Area 3 Speech Communication Core Area 3 Science/Technology Core Area З Global Perspectives and Diversity Core Area з Mathematics Competency (See page 23 for information on how to fulfill this requirement. Course work may be needed.) CHOICE 2: **Professional Related Courses 3 Credits** CJUS 103 Criminal Law Э LEGI 215 Bush Law I, Basic Principles з

MINIMUM TOTAL

NOTES

- 1. CTRT 275 requires 100 verified hours of actual writing fieldwork.
- Students must begin Court and Conference Reporting courses in the fall or spring. A deposit of \$75.00 for a steno machine and \$25.00 for a stand is required for students admitted into the program. Students are responsible for obtaining their own equipment upon completion of the program.
- A final grade of 3.0 or higher in all CTRT courses is required for graduation.
 Students must attain the following minimum speeds with 95-97% accuracy for graduation: three timings at 230 wpm O&A; three timings at 200 wpm Jury Charge; three timings at 180 wpm Literary; and two typing timings at 60 net wpm.
- This curriculum meets all of the National Court Reporters Association Committee on Approved Student Education (CASE) minimum standards for receiving a degree in Court Reporting.

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.

Fall Admitted Students

I (FALL)	II (SPRING)	III (SUMMER)	IV (FALL)
CTRT 100	CTRT 110	CTRT 120	CTRT 200
Lim.Ch.1	CTRT 260	Lim.Ch.1	CTRT 235
Lim.Ch:2	Lim.Ch.1		CTRT 250
			Lim.Ch.1 -
V (SPRING)	VI (SUMMER)	VII (FALL)	
CTRT 210	CTRT 220	CTRT 230	
CTRT 245		CTRT 240	
CTRT 255		CTRT 270	
CTRT 265		CTRT.275	

Spring Admitted Students

(SPRING)	H (SUMMER)	III (FALL)	IV (SPRING)	
CTRT 100	CTRT 120	CTRT 110	CTRT 200	
Lim.Ch.1	Lim.Ch.1	CTRT 235	CTRT 250	
Lim.Ch.2		CTRT 260	Lim.Ch.1	
		Lim.Ch.1		
V (SUMMER)	VI (FALL)	VII (SPRING)		
CTRT 220	CTRT 210	CTRT 230		
	CTRT 240	CTRT 245		
	CTRT 255	CTRT 265		
	CTRT 270	CTRT 275		

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COURT REPORTING

CREDIT UNION MANAGEMENT

2000-2001 Catalog Lansing Community College

Curriculum Code: 0103 (Effective Fall 2000-Summer 2005)

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

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

CREDIT HOUR	ENTS TO	CODE
	Principles of Accounting I	ACCG 210
	Introduction to Business	BUSN 118
(Info Sys Tech/Problem Solving	CISB 200
:	Credit Union Accounting	CUAI 102
3	Intro Credit Union Operations	CUMA 100
	Credit and Collections	CUMA 200
(Business Law for Credit Unions	CUMA 215
(Human Resources Management	MGMT 224
ć	Principles of Management	MGMT 225
(Diversity in the Workplace	MGMT 234
	Principles of Marketing	MKTG 200
(Oral Communic in the Workplace	SPCH 110
6	Business Writing	WRIT 127
21-22 CREDITS isted below.	DICE REQUIREMENTS TOTA indicated number of credits from each CHOIC	
0 Credits	General Education Core Areas	CHOICE 1:
o orean	VERAL EDUCATION section above)	
(Writing Core Area (See Note 1)	
	Speech Communication Core Area (See Note	
/ (Science/Technology Core Area (See Note 1)	
	Global Perspectives and Diversity Core Area	
	Mathematics Competency (See page 23 for i	
	how to fulfill this requirement. Course work m	
17 Credits	Management Related (See Note 2)	
IT OFBUILS		CHOICE 2:
	Principles of Accounting II	
		ACCG 211
4	Principles of Accounting II	ACCG 211 BUSN 201
2 3 2	Principles of Accounting II International Business	ACCG 211 BUSN 201 BUSN 250
2	Principles of Accounting II International Business Personal Finance	ACCG 211 BUSN 201 BUSN 250 ECON 201
2 2 3 3 3	Principles of Accounting II International Business Personal Finance Principles of Economics-Micro.	ACCG 211 BUSN 201 BUSN 250 ECON 201 ECON 202
2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Principles of Accounting II International Business Personal Finance Principles of Economics-Micro Principles of Economics-Macro Principles Risk and Insurance	ACCG 211 BUSN 201 BUSN 250 ECON 201 ECON 202 INSU 265
	Principles of Accounting II International Business Personal Finance Principles of Economics-Micro. Principles of Economics-Macro Principles Risk and Insurance Intro to Labor Relations	ACCG 211 BUSN 201 BUSN 250 ECON 201 ECON 202 NSU 265 _ABF 200
2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Principles of Accounting II International Business Personal Finance Principles of Economics-Micro Principles of Economics-Macro Principles Risk and Insurance	ACCG 211 BUSN 201 BUSN 250 ECON 201 ECON 202 INSU 265 LABR 200 LABR 204
	Principles of Accounting II International Business Personal Finance Principles of Economics-Micro. Principles of Economics-Macro Principles Risk and Insurance Intro to Labor Relations Employment Law for Managers	ACCG 211 BUSN 201 BUSN 250 ECON 201 ECON 202 INSU 265 LABR 200 LABR 204 MATH 117
	Principles of Accounting II International Business Personal Finance Principles of Economics-Micro. Principles of Economics-Macro Principles Risk and Insurance Intro to Labor Relations Employment Law for Managers Math for Business	ACCG 211 BUSN 201 BUSN 250 ECON 201 ECON 202 INSU 265 LABR 200 LABR 204 MATH 117 MGMT 150
	Principles of Accounting II International Business Personal Finance Principles of Economics-Micro. Principles of Economics-Macro Principles Risk and Insurance Intro to Labor Relations Employment Law for Managers Math for Business Managing Customer Relations	ACCG 211 BUSN 201 BUSN 250 ECON 201 ECON 202 INSU 265 LABR 200 LABR 204 MATH 117 MGMT 150 MGMT 228
	Principles of Accounting II International Business Personal Finance Principles of Economics-Micro. Principles of Economics-Macro Principles Risk and Insurance Intro to Labor Relations Employment Law for Managers Math for Business Managing Customer Relations Organizational Behavior Managing/Continual Improvement	ACCG 211 BUSN 201 BUSN 250 ECON 201 ECON 202 ECON 202 INSU 265 LABR 200 LABR 200 LABR 204 MATH 117 MGMT 150 MGMT 128 MGMT 228
	Principles of Accounting II International Business Personal Finance Principles of Economics-Micro. Principles of Economics-Macro Principles Risk and Insurance Intro to Labor Relations Employment Law for Managers Math for Business Managing Customer Relations Organizational Behavior Managing/Continual Improvement Time and Stress Management	ACCG 211 BUSN 201 BUSN 250 ECON 201 ECON 202 ECON 202 ENSU 265 LABR 200 LABR 204 MATH 117 MGMT 150 MGMT 128 MGMT 237
	Principles of Accounting II International Business Personal Finance Principles of Economics-Micro Principles of Economics-Macro Principles Risk and Insurance Intro to Labor Relations Employment Law for Managers Math for Business Managing Customer Relations Organizational Behavior Managing/Continual Improvement Time and Stress Management Organizational Development	ACCG 211 BUSN 201 BUSN 250 ECON 201 ECON 202 LABR 200 LABR 204 MATH 117 MGMT 150 MGMT 128 MGMT 237 MGMT 239 MGMT 239
	Principles of Accounting II International Business Personal Finance Principles of Economics-Micro Principles of Economics-Macro Principles Risk and Insurance Intro to Labor Relations Employment Law for Managers Math for Business Managing Customer Relations Organizational Behavior Managing/Continual Improvement Time and Stress Management Organizational Development Human Resource Mgmt Skills	ACCG 211 BUSN 201 BUSN 250 ECON 201 ECON 202 INSU 265 LABR 200 LABR 204 MATH 117 MGMT 150 MGMT 223 MGMT 237 MGMT 239 MGMT 304 MGMT 337
	Principles of Accounting II International Business Personal Finance Principles of Economics-Micro Principles of Economics-Macro Principles Risk and Insurance Intro to Labor Relations Employment Law for Managers Math for Business Managing Customer Relations Organizational Behavior Managing/Continual Improvement Time and Stress Management Organizational Development	CHOICE 2: ACCG 211 BUSN 201 BUSN 250 ECON 201 ECON 202 INSU 265 LABR 200 LABR 200 LABR 204 MATH 117 MGMT 150 MGMT 237 MGMT 237 MGMT 337 MGMT 337 MKTG 119 MKTG 221

CHOICE 3: Computer Related (See Note 3) 4-5 Credits

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MINIMUM TOTAL

NOTES

- 1. Students completing *REQUIREMENTS* have fulfilled the requirements for this Core area.
- Students should confer with a Business Cereers program advisor to assure that selection of Limited Choice courses will best fit their career plans.
- 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.

1	11	111	IV
BUSN 118	CUMA 200	ACCG 210	CUAI 102
CUMA 100	MGMT 234	CISB 200	MGMT 224
SPCH 110	MKTG 200	CUMA 215	MGMT 225
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 2000-Summer 2005)

Certificate holders may improve their opportunities for advancement in this or a related area. Additional education enhances an individual's employment opportunities.

REQUIREMENTS		TOTAL: 18 CREDITS
CODE .	TITLE	CREDIT HOURS
CUAI 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 Resources Management	
MGMT 225	Principles of Management	3
	•	

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

CHOICE 1:	Communication	3 Credits
MGMT 234	Diversity in the Workplace	3
MKTG 200	Principles of Marketing	. 3
SPCH 110	Oral Communic in the Workplace	3
WRIT 127	Business Writing	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.

L II 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 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.

CRIMINAL JUSTICE, CORRECTIONS ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0170 (Effective Fall 2000-Summer 2005)

This degree program prepares an individual for a career as a probation or parole officer, corrections officer, halfway house administrator, jail corrections officer, juvenile corrections professional, or for a local corrections position. 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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GENERAL EDUCATION

General aducation is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Criminal Justice and Law Center, Old Central Building, Room 224, telephone number (517) 483-1570.

REQUIREME		OTAL: 49 CREDITS
CODE	TITLE	CREDIT HOURS
CISB 100	Intro Computer Info Systems	3
CJUS 101	Intro to Criminal Justice	.3
CJUS 106	Intro to Juvenile Justice	3
CJUS 133	Juvenile Residential Services	3
CJUS 134	Probation and Parole	3
CJUS 245	Report Writing in CJ	2
LEGL 160	Critical Thinking in Law	3
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
Vocational C	ertificate Requirements (See Note 1)	
CJUS 131	Introduction to Corrections	3
CJUS 135	Legal issues in Corrections	, Э
CJUS 250	Correctional Institutions	. 3
CJUS 251	Correctional Clients	Э
CJUS 255	Human Relations/Criminal Just	3
LIMITED CHO	DICE REQUIREMENTS	OTAL: 13 CREDITS
Complete the	indicated number of credits from each CHOIC	E listed below.
CHOICE 1:	General Education Core Areas	3 Credits
(See the GEN	IERAL EDUCATION section above)	
	Writing Core Area (See Note 2)	0
	Speech Communication Core Aree (See Not	te 2) 0
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	(See Note 2) 0
	Mathematics Competency (See page 23 for	information on
	how to fulfill this requirement. Course work n	nay be needed.)
CHOICE 2:	Related Professional Courses (See Note 3) 10 Credits
CJUS 102	Crime Causes and Conditions	3
CJUS 204	Criminal Investigation	4
CJUS 205	Policing into the 21st Century	3
SOCL 255	Contemporary Social Problems	3
SOCL 260	Minority Groups	Э
County and L	ocal Detention Vocational Certificate (See	Note 4)
CJUS 130	Local Detention	3
CJUS 242	Unarmed Defense	3
CJUS 246	Jail Safety and I.D. Issues	4
CJUS 256	Interpersonal Comm in Jails	1
WRIT 117	Writing Preparation II (See Note 5)	4

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Juvenile Ca	re Worker Certificate (See Note 7)	
CJUS 126	Juvenile Offenders/Their Fam	3
CUUS 286	Juvenile Internship I	3
CJUS 287	Juvenile Internship II	. 3
HUSE 100	Introduction to Human Services	3

MINIMUM TOTAL

NOTES

- 1. Students completing these five courses with a minimum 2.0 grade in each class will receive the Michigan Corrections Officer Vocational Certificate.
- 2 Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Э. Students may select any combination of Choice 2 courses to fulfil this requirement, including courses listed within the County and Local Detention Certificate and the Juvenile Care Worker Certificate.
- Students completing these five courses and CJUS 135, CJUS 245, CJUS 251 and CJUS 255 with a minimum 2.0 grade in each class will receive the County and Local Detention Vocational Certificate.
- 5. This course will be waived if student scores five or above on the Writing Placement Test. This test is administered free of charge in the Assessment Center, Room 2100, Gannon Vocational-Technical Center.
- All Vocational Certificate courses are certified by the Michigan Corrections 6. Officer Training Council.
- 7. Students completing these four courses and CISB 100, CJUS 106, CJUS 133, PSYC 200, SOCL 120, and WRIT 124 with a minimum 2.0 grade in each class will receive the Juvenile Care Worker 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.

1	\$I	111	IV
CJUS 101	CJUS 106	CISB 100	CJUS 255
CJUS 131	CJUS 245	CJUS 133	PSYC 200
LEGL 160	CJUS 250	CJUS 134	Lim.Ch.1
SOCL 120	CJUS 251	CJUS 135	Lim.Ch.2
WRIT 124	SPCH 110	Lim.Ch.2	Lim.Ch.2

Lim.Ch.2

TUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE REGISTRAP'S IFFICE 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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CRIMINAL JUSTICE, LAW ENFORCE Associate in Business Degree

Curriculum Code: 0257 (Effective Fall 2000-Summer 2005)

This degree program prepares an individual for a career as a law enforcement officer. It also prepares the individual for possible entry to the Police Academy 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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Criminal Justice and Law Center, Old Central Building, Room 224, telephone number (517) 483-1570.

CODE	NTS	TOTAL: 39 CREDITS CREDIT HOURS
CISB 100	Intro Computer Info Systems	3
CJUS 101	Intro to Criminal Justice	
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	Э
CJUS 204	Criminal Investigation	4
CJUS 205	Policing into the 21st Century	3
CJUS 245	Report Writing in CJ	2
CJUS 255	Human Relations/Criminal Just	3
MGMT 234	Diversity in the Workplace	3
SPCH 110	Oral Communic in the Workplace	3
WRIT 124	Technical Writing	3
LIMITED CH		TAL: 23-28 CREDITS
Complete the	indicated number of credit from each CHOI	CE listed below.
CHOICE 1:	General Education Core Areas	3 Credits
	VERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area (See A	lote 1) 0
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Ar	ea (See Note 1) 0
	Mathematics Competency (See page 23 for	or information on
	how to fulfill this requirement. Course work	
CHOICE 2:	Law Enforcement (Choose one subchoic	e) 2025 Credits
	A: Mid-Michigan Police Academy Require	
CJUS 260	Criminal Invest & Procedures	
0103 200		3
- · · · · ·	Michigan Crim Law & Procedure	3
CJUS 261	Michigan Crim Law & Procedure	3
CJUS 261 CJUS 262	Patrol Procedures and Tactics	3 3
CJUS 261 CJUS 262 CJUS 263	Patrol Procedures and Tactics Standard First Aid	3 3 2
CJUS 261 CJUS 262 CJUS 263 CJUS 264	Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce	3 3 2 1
CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265	Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations	3 3 2 1 3
CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266	Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science	3 3 2 1 3 3 3
CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 266 CJUS 267	Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing	3 3 2 1 3 3 3 2
CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 266 CJUS 267 CJUS 268	Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing Precision Driving	3 3 2 1 3 3 2 2 3
CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 266 CJUS 267 CJUS 268	Patrol Procedures and Tactics Standard First Aid Rprt Writing in Law Enforce Highway Traffic Operations Basic Police Science Law Enforcement Phys Traing	3 3 2 1 3 3 3 2
CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 265 CJUS 266 CJUS 267 CJUS 268 PFFT 114 Subchoice 2	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	3 3 2 1 3 3 2 3 2 2 3
CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 267 CJUS 268 PFFT 114	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	3 3 2 1 3 3 2 3 2 3 3 2 3 3 2 3 3 2
CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 265 CJUS 266 CJUS 267 CJUS 268 PFFT 114 Subchoice 2	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	3 3 2 1 3 3 2 3 2 3 3 2 3 3 3 3
CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 266 CJUS 266 CJUS 268 PFFT 114 Subchoice 2 CJUS 130 CJUS 203	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 Critical Thinking in Law	3 3 2 1 3 3 2 3 2 3 3 2 3 3 3 3 3 3
CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 266 CJUS 266 CJUS 268 PFFT 114 Subchoice 2 CJUS 130 CJUS 203	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	3 3 2 1 3 3 2 3 2 3 3 2 3 3 3 3 3 3 4
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	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 Critical Thinking in Law	3 3 2 1 3 3 2 3 2 3 3 2 3 3 3 3 3 3
CJUS 261 CJUS 262 CJUS 263 CJUS 264 CJUS 265 CJUS 266 CJUS 267 CJUS 268 PFFT 114 Subchoice 2 CJUS 130 CJUS 203 LEGL 160 PSYC 200	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 Critical Thinking in Law Introduction to Psychology	3 3 2 1 3 3 2 3 2 3 3 2 3 3 3 3 3 3 4

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.

Subchoice 2A: Mid-Michigan Police Academy

1	11	111	1V
CJUS 101	CJUS 201	CISB 100	Police Academy
CJUS 102	CJUS 204	CJUS 103	
CJUS 106	CJUS 205	CJUS 255	
WRIT 124	CJUS 245	MGMT 234	
	Lim.Ch.1	SPCH 110	

Subchoice 2B: Other Law Enforcement

1 .	11	111	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	SPCH 110		

CJUS 203

CJUS 204

SOCL 255

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JUVENILE CARE WORKER CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0916 (Effective Fall 2000-Summer 2005)

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Criminal Justice and Law Center, Old Central Building, Room 224, telephone number (517) 483-1570.

REQUIREMENTS		TOTAL: 32 CREDITS
CODE	TITLE	CREDIT HOURS
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	3
CJUS 286	Juvenile Internship I	3
CJUS 287	Juvenile Internship II	3
HUSE 100	Introduction to Human Services	3
PSYC 200	Introduction to Psychology	4
SOCL 120	Introduction to Sociology	4
WAIT 124	Technical Writing	3
	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.

1	£		
CISB 100	CJUS 133		
CJUS 106	CJUS 287		
CJUS 126	HUSE 100		
CJUS 286	SOCL 120		
PSYC 200	WRIT 124		

CRIMINAL JUSTICE

MID-MICHIGAN POLICE ACADEMY CERTIFICATE OF COMPLETION

Curriculum Code: 0737 (Effective Fall 2000 - Summer 2001)

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 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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

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 129B, 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 POLICE ACADEMY PROGRAM

For current information about admission requirements, contact the Police Academy Coordinator, William Martin, in the Police Academy Office, Old Central Building, Room 129B, telephone number (517) 483-5248, or contact the LCC Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

MID-MICHIGAN POLICE ACADEMY PROGRAM REQUIREMENTS

Curriculum Code: 0737 DECHIDEMENT

REQUIREMENTS		TOTAL: 25 CREDITS
CODE	TITLE	CAEDIT HOURS
CJUS 260	Criminal Invest & Procedures	3
CJUS 261	Michigan Crim Law & Procedure	3
CJUS 262	Patrol Procedures and Tactics	Э
CJUS 263	Standard First Aid	2
CJUS 264	Rprt Writing in Law Enforce	1
CJUS 265	Highway Traffic Operations	3
CJUS 266	Basic Police Science	3
CJUS 267	Law Enforcement Phys Traing	2
CJUS 268	Precision Driving	3
PFFT 114	Advanced Circuit Training	2

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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 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 TECH, CONSTRUCTION CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0759 (Effective Fail 2000-Summer 2005)

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMS	TITLE	TOTAL: 42 CREDITS CREDIT HOURS
BLDT 103	Structural Blueprint Reading	4
ELTE 100	Electrical Safety Practices	1
ELTE 110	Practical Electricity	3
ELTE 112	Basic Wiring Installation	2
ELTE 121	Analyzing Electric Circuits	5
ELTE 123	Motors and Transformers	4
ELTE-131	Intro to Machine Control	4
ELTE 141	National Electrical Code I	4
ELTE 145	Electrical Prints for Building	4
ELTE 240	Electrical Estimating	3
ELTE 260	Intro/Programmable Controllers	4
INAU 100	Intro Industrial Automation	4
	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.

1	. 11	11	
BLDT 103	ELTE 112	ELTE 123	
ELTE 100	ELTE 121	ELTE 141	
ELTE 110	ELTE 131	ELTE 240	
INAU 100	ELTE 145	ELTE 260	

ELECTRICAL TECH, CONTROL/MAINT CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0760 (Effective Fall 2000-Summer 2005)

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

	ENTS TITLE	TOTAL: 40 CREDITS CREDIT HOURS
ELTE 100	Electrical Safety Practices	1
ELTE 110	Practical Electricity	3
ELTE 112	Basic Wiring Installation	2
ELTE 121	Analyzing Electric Circuits	5
ELTE 122	Industrial Control Electronics	5
ELTE 123	Motors and Transformers	4
ELTE 131	Intro to Machine Control	4
ELTE 150	Electric Motor Maintenance	. 2
ELTE 260	Intro/Programmable Controllers	4
ELTE 261	Allen-Bradley PLC-5 Advanced	6
INAU 100	Intro Industrial Automation	4
	MINIMUM TOTAL	40

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.

<u> </u>	11	1	IV	
ELTE 100	ELTE 112	ELTE 123	ELTE 122	
ELTE 110	ELTE 121	ELTE 260	ELTE 261	
INAU 100	ELTE 131			1
	ELTE 150			

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL OCCUMENTATION 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. 96 LANSING COMMUNITY COLLEGE CATALOG 2000-2001

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ELECTRICAL TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0134 (Effective Fall 2000-Summer 2005)

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

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMI	ENTS TITLE	TOTAL: 33 CREDITS CREDIT HOURS
ELTE 100	Electrical Safety Practices	1
FITE 110	Practical Electricity	3
ELTE 112	Basic Wiring Installation	2
FLTE 121	Analyzing Electric Circuits	5
ELTE 123	Motors and Transformers	4
ELTE 131	Intro to Machine Control	4
ELTE 145	Electrical Prints for Building	4
ELTE 150	Electric Motor Maintenance	2
ELTE 260	Intro/Programmable Controllers	4
INAU 100	Intro Industrial Automation	4
LIMITED CH	OICE REQUIREMENTS	TOTAL: 34 CREDITS
Complete the	e indicated number of credits from each Cl	HOICE listed below.
CHOICE 1;	General Education Core Areas	12 Credits
(See the GE	NERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core	Area 3
	Mathematics Competency (See page 23	

CHOICE 2: Electrical Specialization (Choose one subchoice) 22 Credits Subchoice 2A: Construction Specialization BLDT 103 Structural Blueprint Reading 4 BLDT 277 Construction Cost Estimating 4 **ELTE** 141 National Electrical Code I 4 ELTE 142 National Electrical Code II 4 **ELTE 240** Electrical Estimating з HVAC 100 Fundamentals of HVAC з Subchoice 2B: Machine Control and Maintenance Specialization 5

how to fulfill this requirement. Course work may be needed.)

ELTE 122	Industrial Control Electronics
ELTE 232	Industrial Control Design
ELTE 261	Allen-Bradley PLC-5 Advanced
INAU 200	Applied Automation
MFGM 101	Industrial Hydraulics

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.

Construction Specialty 111 ŧ٧ н ELTE 100 **ELTE 112** BLDT 103 **BLDT 277 ELTE 110** ELTE 121 **ELTE 123** ELTE 145 INAU 100 ELTE 131 **ELTE 142** HVAC 100 Lim.Ch. **ELTE 141** ELTE 240 Lim Ch.

Control and Maintenance Specialty

ELTE 150

Lim.Ch.

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ELTE 100	ELTE 112	ELTE 123	ELTE 232	
ELTE 110	ELTE 122	ELTE 131	ELTE 261	
ELTE 121	ELTE 145	ELTE 260	INAU 200	
INAU 100	ELTE 150	MFGM 101	Lim.Ch.	
Lim.Ch.	Lim.Ch.	Lim.Ch.		

ELTE 260

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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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ELECTRONICS TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0894 (Effective Fall 2000–Summer 2005)

Electronics technicians install, operate, maintain, and service electronics equipment. They also diagnose and repair problems caused by mechanical or electrical malfunctions in individual electronic units and in complex systems such as local area networks (LANS) and industrial controllers. They deal with the analysis and component level troubleshooting of analog and digital circuits. Electronics technicians are employed with automotive manufacturers, industrial automation companies, business machine service companies, telephone companies, hospitals, aircraft service companies, radio and TV service companies. Not all tion sales, robotics repair companies, and maintenance companies. 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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREME	NTS TITLE	OTAL: 57 CREDITS CREDIT HOURS	
CISB 200	Info Sys Tech/Problem Solving	3	
ELCT 100	Schematic Drawing	1	
ELCT 101	Analog Problems	5	
ELCT 109	DC Circuits	3	
ELCT 110	AC Circuits	3	
ELCT 112	Transistors	6	
ELCT 120	Programming Preparation	2	
ELCT 131	Digital Basics	3	
ELCT 161	Soldering/Desoldering	1	
ELCT 211	Linear Circuits I	3	
ELCT 212	Linear Circuits II	3	
ELCT 231	 Advanced Digital Electronics 	4	
ELCT 232	Digital Commun and Networking	4	
ELCT 251	Electronic Troubleshooting	2	
ELCT 271	Communications I	4	
ELCT 272	Communications II	4	
SPCH 110	Oral Communic in the Workplace	3	
WRIT 124	Technical Writing	3	
LIMITED CHO	DICE REQUIREMENTS	TOTAL: 8 CREDITS	
Complete the	indicated number of credits from each CHOIC	E listed below.	
CHOICE 1:	General Education Core Areas	3 Credits	
(See the GEN	IERAL EDUCATION section above)		
	Writing Core Area (See Note 1)	0	
	Speech Communication Core Area (See Not	<i>e 1)</i> 0	
	Science/Technology Core Area (See Note 1)		
	Global Perspectives and Diversity Core Area		
	Mathematics Competency (See page 23 for i		
	how to fulfill this requirement. Course work m	ay be needed.)	
CHOICE 2:	Electronics Specialty (Choose one subchoi	ce) 5 Credits	
Subchoice 2A: Biomedical			
ELCT 261	Consumer Product Systems	3	
ELCT 290	Biomedical Internship	2	

Subchoice 2B: Communications 2 ELCT 261 Consumer Product Systems 3 ELCT 291 Communications Internship 2

Subchoice 2C: Digital

	MINIMUM TOTAL	65
ELCT 292	Digital Electronics Internship	2
ELCT 242	Comp Intricing and Peripherals	3

NOTE

 Students completing *HEQUIREMENTS* 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.

I	R	# [[IV	
ELCT 100	CIS8 200	ELCT 211	ELCT 212	
ELCT 101	ELCT 112	ELCT 231	ELCT 232	
ELCT 109	ELCT 120	ELCT 251	ELCT 272	
ELCT 110	ELCT 131	ELCT 271	Lim.Ch.2	
ELCT 161	WRIT 124	Lim.Ch.1	Lim.Ch.2	
SPCH 110				

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ELECTRONICS TROUBLESHOOTER CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0895 (Effective Fall 2000-Summer 2005)

Electronics troubleshooters are trained in basic electronics circuitry and have basic troubleshooting skills. They typically work in an entry-level position under the guidance of a more experienced technician.

PREREQUISITES

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Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careeers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 31 CREDITS
CODE	TITLE	CREDIT HOURS
ELCT 100	Schematic Drawing	· _ 1
ELCT 101	Analog Problems	5
ELCT 109	DC Circuits	3
ELCT 110	AC Circuits	3
ELCT 112	Transistors	6
ELCT 120	Programming Preparation	· 2
ELCT 131	Digital Basics	3
ELCT 161	Soldering/Desoldering	1
ELCT 181	Computer Test Equipment II	. 2
ELCT 251	Electronic Troubleshooting	2
ELCT 261	Consumer Product Systems	. 3
	MINIMUM TOTAL	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.

ł	Ħ	
ELCT 100	ELCT 112	
ELCT 101	ELCT 120	
ELCT 109	ELCT 181	
ELCT 110	ELCT 251	
ELCT 131	ELCT 261	
ELCT 161		

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 INTED TO GRADUATE.

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FIRE SCIENCE ACADEMY **CERTIFICATE OF COMPLETION**

Curriculum Code: 0709 (Effective Fall 2000 - Summer 2001)

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 Fighting Training Council for Fire Fighter I and II, HAZ MAT Awareness, and HAZ MAT 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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

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 2000/2001 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.

REQUIREMENTS		TOTAL: 14 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	4
PFHW 109	Emergency Services Fitness I	1
		14

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.

EIRE 101 **FIRE 102 PFHW 109**

FIRE SCIENCE TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0123 (Effective Fall 2000-Summer 2005)

This degree program prepares an individual for a career in fire fighting. Included in this curriculum is successful completion of a Michigan Fire Fighting Training Council Fire Fighter I and Fire Fighter II course. In addition, students are required to complete course work in fire safety information and inspection, fire suppression, hazardous material spills and investigative techniques, fire prevention and law, building construction, command and administration, and hydraulics and pump operation. 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 section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23,

INFORMATION

Contact the Human, Health and Public Service Careers Department, Gannon Vocational-Tachnical Center, Room 175, telephone number (517) 483-1410.

REOUIREMENTS		TOTAL: 58 CREDITS	
CODE	TITLE	CREDIT HOURS	
FIRE 100	Introduction to Fire Fighting	3	
FIRE 101	MI F.F.T.C. Basic Fire Lev I	. 9	
FIRE 102	MI F.F.T.C. Basic Fire Lev II	4	
FIRE 110	Fire Prevention and Law	3	
FIRE 115	Building Construction/Fire Ser	4	
FIRE 120	Chemistry/Hazardous Materials	3	
FIRE 125	Fire Protection Sys/Equipment	4	
FIRE 130	Fire Hydraulics/Pump Operation	4	
FIRE 150	Fire Command and Operations	4	
FIRE 210	Fire Investigation	4	
FIRE 220	Hazardous Materials/Fire Ser	4	
FIRE 250	Fire Administration	4	
PFHW 110	Emergency Services Fitness II	1	
PFHW 111	Emergency Services Fitness III	1	
SPCH 120	Dynamics of Communication	3	
WRIT 124	Technical Writing	3	

LIMITED CHOICE BEOUIREMENTS

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

CHOICE 1:	General Education Core	6 Credits
(See the GEN	ERAL EDUCATION section above)	
	Writing Core Area (See Note 2)	0
	Speech Communication Core Area (See Note 2)	0
	Science/Technology Core Area	З
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for informatic	on on
	how to fulfill this requirement. Course work may be ne	eded.)

MINIMUM TOTAL

64

TOTAL: 6 CREDITS

NOTES

- 1. This curriculum includes FIRE 101 and FIRE 102 which are the Fire Academy courses. The Fire Academy Certificate Program is a selective admission program with admission requirements beyond those required for admission to the college. Students with Michigan Fire Fighter I or I & II certification may be eligible for FIRE 101 and/or FIRE 102 to be waived. Students should consult with a Fire Science program advisor regarding this segment of the program.
- 2. Students completing REQUIREMENTS 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.

1.	11	111	IV	
FIRE 100	FIRE 110	FIRE 115	FIRE 130	
FIRE 101	SPCH 120	FIRE 120	FIRE 210	
FIRE 102	WRIT 124	FIRE 125	FIRE 220	
PFHW 110	Lim.Ch.	FIRE \$50	FIRE 250	
	Lim.Ch.		PFHW 111	

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. 100 E LANSING COMMUNITY COLLEGE CATALOG 2000-2001

GEOGRAPHIC INFORMATION SYSTEMS

2000-2001 Catalog Lansing Community College

GIS/GEOSPATIAL TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0224 (Effective Fall 2000–Summer 2005)

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 counselor before enrolling in any course.

PREREQUISITES

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GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 36 CREDITS	
CODE	TITLE	CREDIT HOURS	
GRET 205	Principles Geographic Info Sys	3	
GRET 209	Applications in GIS	з	
GRET 210	Global Positioning Systems	3	
GRET 220	Hydrological Systems	3	
GRET 221	Landforms/Soil Systems in GIS	З	
GRET 223	Environmental Resource Mgmt	3	
GRET 240	Cartography in GIS	3	
GRET 241	Remote Sens/AirPhoto Interpret	3	
GRET 243	ORACLE/Geographic Info Sys	3	
LAND 150	Principles of Landscape Arch	3	
LAND 180	Landscape Ecology	3	
WRIT 124	Technical Writing	3	
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LIMITED CHOICE REQUIREMENTS TOTAL: 30–31 CREDITS Complete the indicated number of credits from *each* CHOICE listed below.

CHOICE 1:	General Education Core Areas	9 Credits
(See the GE	NERAL EDUCATION section above)	· _ ·
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for info	ormation on
	how to fulfill this requirement. Course work may	be needed.)
CHOICE 2: (Subchoice 2	GIS Specializations (Choose one subchoice)	9–10 Credits
GRET 203	Beginning MicroStation	3
GRET 204	MicroStation Graphic Environ	3
GRET 208	Advanced Techniques in GIS	3
Subchoice 2	28:	
GRET 253	Basics of ARC/View	1
GRET 255	Beginning ARC/Info	3
GRET 256	Advanced ARC/info	3
LAND 282	Computer Draft/Dsgn Land Arch	3
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CHOICE 3:	Additional Related Courses	12 Credits
GRET 211	Geomedia-Internet GIS	3
GRET 213	Advanced MicroStation	3
GRET 248	GIS/GPS Field Systems	3
LAND 181	Landscape Restoration/Manage	. 3
LAND 242	Ecological Land Planning	3
LAND 283	Beginning LANDCADD	3
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MINIMUM TOTAL

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.

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GRET 205	GRET 210	GRET 221	GRET 209
GRET 220	GRET 241	GRET 243	GRET 223
GRET 240	WRIT 124	LAND 150	Lim.Ch.
LAND 180	Lim.Ch.	Lim.Ch.	Lim.Ch.
Lim.Ch.	Lim.Ch.	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 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 MED SERVICES CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0269 (Effective Fall 2000-Summer 2005)

This certificate program prepares an individual to be 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. An EMT Academy option is available to students.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Human, Health and Public Service Careers Department, Gannon Vocational-Technical Center, Room 175, telephone number (517) 483-1410.

REQUIREMI COOE	ENTS TITLE	TOTAL: 32 CREDITS CREDIT HOURS
AHCC 110	Pharmacology-Allied Health	2
ANAT 145	Introductory Anat & Physiology	. 4
CISB 200	Info Sys Tech/Problem Solving	3
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 105	Ambulance Driving	1
EMTA 108	Legal Issues in Emergency Med	2
EMTA 112	Basic EMT Clinical	2
EMTA 114	Rescue/Extrication/Danger Situ	3
WRIT 124	Technical Writing	3
	MINIMUM TOTAL	32

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.

1	lt	
ANAT 145	AHCC 110	
CISB 200	EMTA 103	
EMTA 101	EMTA 104	
EMTA 102	EMTA 108	
EMTA 105	EMTA 112	
EMTA 114	W R IT 124	

EMT Academy Option

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EMTA 101	ANAT 145	AHCC 110
EMTA 102	EMTA 105	CISB 200
EMTA 103	EMTA 114	EMTA 108
EMTA 104	WRIT 124	
EMTA 112		

DENTAL ASSISTANT CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0193 (Effective Fall 2000 - Summer 2001)

Dental assistants assist the dentist with the delivery of dental care and treatment procedures at the chairside in dental offices, public health clinics, dental schools, and hospitals. This program prepares individuals to be Registered Dental Assistants responsible for transferring dental instruments; charting the teeth; preparing and delivering dental materials; taking impressions and making models of the teeth; placing and removing rubber dams; placing and removing temporary crowns; and exposing and processing dental x-ray pictures. Upon graduation from this accredited program, one is eligible to take the state of Michigan 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 course-tor 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 Assistant Program.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

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 2000/2001 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. For Dental Assistant Program office, Arts and Sciences Building, Room 007F, telephone number (517) 483-1457.

REQUIREMENTS FOR ADMISSION TO THE DENTAL ASSISTANT PROGRAM For current information about admission requirements, students must contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

	ENTS TITLE	TOTAL: 34.5 CREDITS CREDIT HOURS
DADH 128	Dental Radiography	4
DAST 110	Dental Instruments	. 1
DAST 111	Preclinical Dental Assisting	3
DAST 112	Dental Anatomy	4
DAST 114	Preventive Dentistry & Prc	3
DAST 116	Dental Materials	. 3
DAST 118	Dental Assisting Principles	1
DAST 120	Clinical Dental Assisting I	6
DAST 126	RDA Procedures ~ DA	3
DAST 130	Clinical Dental Assisting II	2
DAST 140	Clinical Dental Assisting III	4
EMSB 102	CPR for Health Care Prof	.5
	MINIMUM TOTAL	34.5

SUGGESTED COURSE SEQUENCE

Students begin this program each fall semester and courses are offered once a year in the following sequence.

1	н	10	
DAST 110	DADH 128	DAST 140	
DAST 111	DAST 120		
DAST 112	DAST 126		
DAST 114	DAST 130		
DAST 116			
DAST 118			
EMSB 102			

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DENTAL HYGIENIST ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0279 (Effective Fall 2000-Summer 2002)

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 accredited program, one is 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 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 collage. Many of the courses for this program are open only to students officially admitted to the Dental Hygienist Program.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

The edmission 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 2000/2001 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. For Dental Hygienist career advising information, contact the Dental Advisor at the Dental Hygienist Program office, Arts and Sciences Building, Room 007F, telephone number (517) 483-1457.

REQUIREMENTS 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.

REQUIREMENTS		TOTAL: 73 CREDITS
CODE	TITLE	CREDIT HOURS
ANAT 201	Human Anatomy	4
DADH 128	Dental Radiography	4
DHYN 110	Preclinical Dental Hygiene	6
DHYN 112	Oral Anatomy	4
DHYN 114	Oral Pathology	2
DHYN 116	Dental Pharmacology	2
DHYN 120	Clinical Dental Hygiene I	6
DHYN 122	Principles of Periodontics	2
DHYN 124	Nutrition and Oral Health	2
DHYN 126	Dental Materials and Methods	3
DHYN 210	Clinical Dental Hygiene II	6
DHYN 212	Advanced Dental Hygiene Proced	4
DHYN 214	Clinical Oral Pathology	1
DHYN 216	Dental Public Health & Educ	2
DHYN 220	Clinical Dental Hygiene III	7
DHYN 222	Community Oral Health	4
MICR 203	Microbiology	3
PHGY 202	Human Physiology	4
SOCL 120	Introduction to Sociology '	4.
SPCH 120	Dynamics of Communication	3

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

CHOICE 1:	General Education Core Areas	3 Cre	dits
(See the GEN	IERAL EDUCATION section above)		
	Writing Core Area		· 3
	Speech Communication Core Area (See Note 1)		· · 0 ·
	Science/Technology Core Area (See Note 1)		0
	Global Perspectives and Diversity Core Area (See No	ote 1)	· 0
	Mathematics Competency (See page 23 for informati		
•	how to fulfill this requirement. Course work may be n) [*]

MINIMUM TOTAL

NOTES

- 1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- DHYN 224, Testing Styles and Inventory, 2 credits, is an optional course to 2. prepare for Dental Hygiene licensure exams.
- Dental Hygienist students desiring eligibility to take the Michigan Registered Dental Assistant licensure exam must also successfully complete DHYN 230, RDA Prc-DH, 2 credits, offered spring semester.
- Current Basic Cardiac Life Support Certification (BCLS) is required through-4 out the program. (EMSB 102 or American Red Cross Provider C.)

SUGGESTED COURSE SEQUENCE

Courses listed in semasters I, II, and III below must be completed prior to admission to the Dental Hygienist Program as part of the requirements for admission. Once admitted to the program, students bagin semester IV courses during fall semester. DHYN and DADH courses are offered once a year in the following sequence for a two-year period and are scheduled fall and spring semesters only.

1	11	ш	
ANAT 201	PHGY 202	MICR 203	
SOCL 120	SPCH 120	Lim.Ch.	
IV	v	VI	VII
DHYN 110	DADH 128	DHYN 210	DHYN 220
DHYN 112	DHYN 120	DHYN 212	DHYN 222
DHYN 114	DHYN 122	DHYN 214	
DHYN 116	DHYN 124	DHYN 216	
	DHYN 126		

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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 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 GRAQUATE. LANSING COMMUNITY COLLEGE CATALOG 2000-2001 # 103

DIAGNOSTIC MEDICAL SONOGRAPHY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0790 (Effective Fall 2000-Summer 2002)

Program prepares an individual to use ultrasonic equipment. The sonographer produces images to demonstrate body parts and assist the physician in the diagnosis of medical abnormalities using equipment with a high frequency sound wave (much like sonar). Graduates of the program will be eligible for examination by the American Registry of Diagnostic Medical Sonographers.

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

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment end advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

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 2000/2001 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 SONOGRAPHY PROGRAM

For current information about admission requirements, students must contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREMENTS		TOTAL: 52 CREDITS
CODE	TITLE	CREDIT HOURS
IDMS 200	Sonographic Introduction	2
IDMS 201	General Sonography I: Abdomen	4
IDMS 202	OB/GYN Sonography I	4
IDMS 234	Sonographic Physics	2
IDMS 245	Sonographic instrumentation	2
IDMS 265	General Sonography II	4
IDMS 266	OB/GYN Sonography II	3
IDMS 280	Clinical Experience I	5
IDMS 281	Clinical Experience II	7
IDMS 282	Clinical Experience III	12
IDMS 283	Clinical Experience IV	7

LIMITED CHOICE REQUIREMENTS TOTAL: 12 CREDITS

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

CHOICE 1:	General Education Core Areas 12	2 Credits
(See the GEN	ERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for information	on
	how to fulfill this requirement. Course work may be need	ded.)

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 have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor or counselor for help with adjustments.

H	11	IV
IDMS 234	IDMS 282	IDMS 245
IDMS 265		IDMS 283
IDMS 266		Lim.Ch.
IDMS 281		Lim.Ch,
Lim.Ch.	· ·	
	IDMS 265 IDMS 266 IDMS 281	IDMS 234 IDMS 282 IDMS 265 IDMS 266 IDMS 281

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.

EMERGENCY MEDICAL SERVICES ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0276 (Effective Fail 2000-Summer 2005)

This degree program prepares the individual extensively for a career in emergency medical care. Included in this curriculum are the Basic EMT and Paramedic Certificate Program requirements. In addition, students elect course work designed to prepare them for new and expanding roles in the field of EMS. The elective courses include preparation in the skills and knowledge for (1)the expanded scope of practice in the prehospital setting, (2) hospital or walk-in clinic paramedic, (3) critical care transport specialist, (4) medical treatment of victims of hazard-ous material exposure, (5) EMS management, (6) teaching injury and illness prevention, and (7) teaching emergency first aid. 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* section of this catalog or the *Course* Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathemetics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Human, Health and Public Service Careers Department, Gannon Vocational-Technical Center, Room 175, telephone number (517) 483-1410.

REQUIREMENTS		TOTAL: 59 CREDITS	
CODE	TITLE	CREDIT HOURS	
ANAT 145	Introductory Anat & Physiology	4	
CISB 200	Info Sys Tech/Problem Solving	Э	
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	
PARA 221	Paramedic Medical Trauma I	4	
PARA 222	Paramedic Medical Trauma II	4	
PARA 231	Paramedic Cardiology I	2	
PARA 232	Paramedic Cardiology II	2	
PARA 241	Paramedic Pharmacology I	2	
PARA 242	Paramedic Pharmacology II	2	
PARA 251	Paramedic Skills I	2	
PARA 252	Paramedic Skills II	2	
PARA 261	Paramedic Clinical I	3	
PARA 262	Paramedic Clinical II	4	
PARA 263	Paramédic Internship	3	
PFHW 111	Emergency Services Fitness III	1	
PFHW 112	Emergency Services Fitness IV	1	
SPCH 110	Oral Communic in the Workplace	3	
WRIT 124	Technical Writing	Э	

LIMITED CHOICE REQUIREMENTS TOTAL: 9–11 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	General Education Core Areas	3 Credits
(See the GEN	IERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area (See Note 1)	0
	Science/Technology Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for information	n on
	how to fulfill this requirement. Course work may be nee	ded.)

CHOICE 2:	EMS Requirements (See Note 2)	6-8 Credits
AHCC 110	Pharmacology-Allied Health	2
EMTA 105	Ambulance Oriving	. 1
EMTA 108	Legal Issues in Emergency Med	- 2
EMTA 114	Rescue/Extrication/Danger Situ	. 3
EMTA 222	EMS Instructor Coordinator	6
	MINIMUM TOTAL	68

NOTES

- Students completing REQUIREMENTS have fulfilled the requirements for these Core areas.
- Students who have not already completed Basic EMT and Paramedic certificate programs must select AHCC 110, EMTA 105, 108, and 114 to setisfy Choice 2. Students who have already completed Basic EMT and Paramedic certificate programs may elect EMTA 222 to satisfy Choice 2.
- 3. This curriculum includes PARA 221 through PARA 263 which are the Paramedic Certificate Program 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.

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 Human, Health and Public Service Careers Department (see "Information" above) for academic advising.

1	11	111	IV	
ANAT 145	EMTA 103	CISB 200	PARA 222	
EMTA 101	EMTA 104	PARA 221	PARA 232	
EMTA 102	EMTA 112	PARA 231	PARA 242	
WRIT 124	SPCH 110	PARA 241	PARA 252	
Lim.Ch.	Lim.Ch.	PARA 251	PARA 262	
Lim.Ch.	Lim.Ch.	PARA 261	PARA 263	
	Lim.Ch.	PFHW 111	PFHW 112	

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HEALTH CAREERS

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MASSAGE THERAPY CERTIFICATE OF COMPLETION

Curriculum Code: 0180 (Effective Fall 2000-Summer 2005)

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 and health spas. Successful completion of this program prepares an individual for national certification testing through the National Certification Board for Therapeutic Massage and Body Work.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Human, Health and Public Service Careers Department, Gannon Vocational-Technical Center, Room 175, telephone number (517) 483-1410.

REQUIREME CODE	INTS .	TOTAL: 25 CREDITS CREDIT HOURS
ANAT 145	Introductory Anat & Physiology	4
MASG 270	Massage Therapy-Beginning	2
MASG 271	Massage Therapy-Intermediate	2
MASG 273	Human Structural Dynamics	2
MASG 274	Massage Laboratory (See Note 1)	2
MASG 275	Touch for Health	1
MASG 277	Polarity Therapy I	2
MASG 279	Business Applications/Masg	2
MASG 280	Clin Approach Therap Massage	3
MASG 281	Sports Massage Techniques	2
PFHW 163	Healthy Lifestyles	2
PFHW 181	Stress Management	1

LIMITED CHOICE REQUIREMENTS

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

TOTAL: 2-3 CREDITS

CHOICE 1: MASG 278 PFHW 105 PFHW 161 PFIS 139	Polarity Therapy II Med Alternatives/Hith & Wins Self-Awareness: Key to Winess Therapeutic Touch and Yoga	2–3 Credits 2 2 2 3
	MINIMUM TOTAL	27

NOTES

- The Massage Laboratory consists of 96 hours of supervised massage work. Students must complete the lab within one (1) year of enrolling in the course. A minimum of 32 supervised lab hours must be completed each semester of enrollment. Students must request an "I° grade (incomplete) from the instructor each semester until the total 96 required hours are completed. Only those students completing the minimum 32 supervised lab hours will be eligible for an "I° grade.
- The Certificate of Completion is not affiliated with any national certification organization.
- All courses must be completed with a 2.5 grade or better to receive the Certificate of Completion.
- 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	11	11	IV
ANAT 145	MASG 271	MASG 274	MASG 279
MASG 270	MASG 273	MASG 277	MASG 281
	MASG 275	MASG 280	Lim.Ch.1
	PFHW 163	PFHW 181	

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MEDICAL ASSISTANT CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0248 (Effective Fall 2000 - Summer 2001)

Program prepares a person to assist the physician in patient care management. The role of the medical assistant is administrative and clinical. Duties include admitting patients, appointment scheduling, telephone and written communication, managing the patient records, obtaining patient histories, and assisting the physician in office procedures. Medical assistants work in clinics, medical offices, medical centers, medical insurance companies and various other health-related industries. The medical assistant may become certified through a national exam offered by the American Association of Medical Assistants.

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 Medical Assistant Program.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

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 2000/2001 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 MEDICAL ASSISTANT PROGRAM

For current information about admission requirements, students must contact the Admissions Office, Gannon Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

	ENTS TITLE	TOTAL: 37 CREDITS CREDIT HOURS
AHCC 110	Pharmacology-Allied Health (See Note 1)	2
AHCC 112	Health Law and Ethics (See Note 1)	2
ANAT 145	Introductory Anat & Physiology	4
CHSE 121	Medical Term Allied Health I (See Note 1)	2.5
CHSE 122	Medical Term Allied Health II (See Note 1)	2.5
CHSE 123	Medical insurance Billing I (See Note 1)	3
CHSE 125	Computers in Medical Office (See Note 1)	1
MEDA 100	MA Administrative/Communicat	3
MEDA 131	Clinical Skills I	Э
MEDA 132	Clinical Skills II	3
MEDA 141	Basic Medical Laboratory Proc	. 2
MEDA 142	Adv Medical Laboratory Proc	2
MEDA 181	Administrative Practicum	2
MEDA 182	Clinical Practicum	2
OADM 207	Medical Transcription (See Note 1)	3

LIMITED CHOICE REQUIREMENTS TOTAL: 2 CREDITS

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

CHOICE 1:	Computer	2 Credits
CABS 102	Microcomputers for Non-Majors	2
CABS 119	Ward for Windows	2
	MINIMUM TOTAL	39

NOTES

1. This course may be taken prior to admission to the program.

Complete the courses required for program with a minimum 2.5 grade or 2. better.

SUGGESTED COURSE SEQUENCE

Courses listed in Semester I below must be completed prior to admission to the Medical Assistant program as part of the Phase I requirements for admission. 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 seguence 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	41	IV
ANAT 145	AHCC 112	AHCC 110	MEDA 181
CHSE 121	CHSE 122	CHSE 125	MEDA 182
Lim.Ch.1	CHSE 123	MEDA 132	
	MEDA 100	MEDA 142	
	MEDA 131	OADM 207	
	MEDA 141		

MULTI-SKILL PATIENT CARE TECH CERTIFICATE OF COMPLETION

Curriculum Code: 0788 (Effective Fall 2000-Summer 2005)

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.

PREBEQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Human, Health and Public Service Careers Department, Gannon Vocational-Technical Center, Room 175, telephone (517) 483-1410.

	ENTS	TOTAL: 13.5 Credits
CODE		CREDIT HOURS
AHCC 111	EKG for Health Care Providers	· 1
AHCC 112	Health Law and Ethics	2
CHSE 101	Acute Care Nurse Assis/Orderly	6
CHSE 121	Medical Term Allied Health I	2.5
CHSE 143	Phlebotomy Technician	2
	MINIMUM TOTAL	13.5

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>	11	
AHCC 112	AHCC 111	
CHSE 101	CHSE 143	
CHSE 121		

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NURSING, LPN OPTION CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0235 (Effective Fall 2000-Summer 2001)

The Practical Nursing Program at Lansing Community College implements the 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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

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 2000/2001 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.

REQUIREMI	ENTS TITLE	TOTAL: 44 CREDITS CREDIT HOURS
ANAT 201	Human Anatomy	4
NURS 150	Fundamentals in Nursing Care (See Note	1) 9
NURS 160	Acute Nursing Care	6
NURS 165	Maternity Nursing Care	5
NURS 200	Pharmacology (See Note 1)	3
PFHW 163	Healthy Lifestyles	2
PHGY 202	Human Physiology	4
PSYC 200	Introduction to Psychology	. 4
PSYC 205	Human Growth and Development	3
WRIT 121	Composition I	4
	MINIMUM TOTAL	44

NOTES

- NURS 200 may be taken up to two years prior to admission to the Nursing Program or concurrently with NURS 150.
- Current Basic Cardiac Life Support Certification (BCLS) is required throughout the program (EMSB 102 or American Red Cross "Provider C".)

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 also required for admission and may be waived by successfully passing a proficiency exam. Although students are admitted to the program in June, 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 a previous sequenced semester. NURS 200 is the only NURS-prefix course that is offered summer semester.

1	11	10	
ANAT 201	NURS 150	NURS 160	
PFHW 163	NURS 200	NURS 165	
PSYC 200	PHGY 202	PSYC 205	
WRIT 121			

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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NURSING, RN OPTION ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0222 (Effective Fall 2000-Summer 2002)

The Nursing Program at Lansing Community College is a nationally accredited program and implements the 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 continuing through the second year will receive an associate's degree and is eligible to take the national examination for Registered Nurse (RN)

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

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Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

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 2000/2001 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.

REQUIREME	NTS TITLE	TOTAL: 68 CREDITS CREDIT HOURS
ANAT 201	Human Anatomy	4
MICR 203	Microbiology	Э
NURS 150	Fundamentais in Nursing Care (See Note	1) 9
NURS 160	Acute Nursing Care	6
NURS 165	Maternity Nursing Care	5
NURS 200	Pharmacology (See Note 1)	3
NURS 260	Mental Health Nursing Care	5
NURS 265	Pediatric Nursing Care	5
NURS 280	Advanced Chronic Nursing Care	4
NURS 285	Advanced Acute Nursing Care	4
NURS 290	Leadership in Nursing Care	3
PFHW 163	Healthy Lifestyles	2
PHGY 202	Human Physiology	4
PSYC 200	Introduction to Psychology	4
PSYC 205	Human Growth and Development	3
WRIT 121	Composition I	- 4

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

6 Credits CHOICE 1: General Education Core Areas (See the GENERAL EDUCATION section above) Writing Core Area (See Note 2) 0 3 Speech Communication Core Area Science/Technology Core Area (See Note 2) 0 Global Perspectives and Diversity Core Area 3 Mathematics Competency (See page 23 for information on how to fulfill this requirement. Course work may be needed.)

MINIMUM TOTAL

NOTES

- NURS 200 may be taken up to two years prior to admission into the program 1. or concurrently with NURS 150
- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Although not required for the Associate degree, MICR 204 is strongly recommended to be taken concurrent with MICR 203. It will be required for nurses who continue on to a four-year university.
- Current Basic Cardiac Life Support Certification (BCLS) is required throughout the program (EMSB 102 or American Red Cross "Provider C".)
- Licensed Practical Nurses (LPNs) wishing to complete the second year of this curriculum should make an appointment with the nursing faculty to receive individual advising, telephone (517) 483-1410.

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 also required for admission and may be waived by successfully passing a proficiency exam. Although students are admitted to the program in June, 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 a previous sequenced semester. NURS 200 is the only NURS-prefix course that is offered summer semester.

1	11	111	IV	
ANAT 201	NURS 150	NURS 160	MICR 203	
PFHW 163	NURS 200	NURS 165	NURS 260	
PSYC 200	PHGY 202	PSYC 205	NURS 265	
WRIT 121				

NURS 280 NURS 285 NUBS 290 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 LANSING COMMUNITY COLLEGE CATALOG 2000-2001 # 109

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PARAMEDIC CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0272 (Effective Fail 2000 - Summer 2001)

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.

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

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 2000/2001 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.

	NTS TITLE	TOTAL: 32 CREDITS CREDIT HOURS
PARA 221	Paramedic Medical Trauma I	4
PARA 222	Paramedic Medical Trauma II	4
PARA 231	Paramedic Cardiology I	2
PARA 232	Paramedic Cardiology II	2
PARA 241	Paramedic Pharmacology I	2 .
PARA 242	Paramedic Pharmacology II	2
PARA 251	Paramedic Skills I	2
PARA 252	Paramedic Skills II	2
PARA 261	Paramedic Clinical I	3
PARA 262	Paramedic Clinical II	4
PARA 263	Paramedic Internship	. 3
PFHW 111	Emergency Services Fitness III	1
PFHW 112	Emergency Services Fitness IV	. 1
	MINIMUM TOTAL	32

NOTE

1. Complete each course required with a minimum 3.0 grade or better in order to earn a Certificate of Achievement in the Paramedic 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.

1	11	
PARA 221	PARA 222	
PARA 231	PARA 232	
PARA 241	PARA 242	
PARA 251	PARA 252	
PARA 261	PARA 262	
PFHW 111	PARA 263	
	PFHW 112	

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RADIOLOGIC TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0196 (Effective Fall 2000 - Summer 2003)

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 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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

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 2000/2001 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 Vocational-Technical Center, Room 2200, telephone number (517) 483-1254.

REQUIREME	ENTS	TOTAL: 67 CREDITS
CODE TITLE		CREDIT HOURS
AHCC 104	Patient Care Principles	2
ANAT 201	Human Anatomy	4
CABS 102	Microcomputers for Non-Majors	2
IRXT 100	Introduction to Imaging	4
IRXT 111	Radiographic Positioning I	5
IRXT 112	Radiographic Positioning II	4
IRXT 113	Additional RAD Procedures	1
IRXT 114	Cross-Sectional Anatomy	3
IRXT 121	Radiographic Exposure I	3
IRXT 122	Radiographic Exposure II	2
IRXT 131	Radiologic Physics	3
IRXT 132	Radiobiology and Protection	2
IRXT 200	Intro/Radiologic Pathology	2
IRXT 202	Clinical Practice I	5
IRXT 204	Clinical Practice II-S	3
IRXT 210	Radiology Career Management	1
IRXT 214	Comprehensive Experience I	6
IRXT 215	Comprehensive Experience II	6
IRXT 219	Imaging Update	1
IRXT 236	Comprehensive Experience III-S	4
PHGY 202	Human Physiology	4

HEALTH CAREERS

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LIMITED CHOICE REQUIREMENTS Complete the indicated number of credits from each CHO	TOTAL: 9 CREDITS ICE listed below.
CHOICE 1: General Education Core Areas (See the "GENERAL EDUCATION" section above)	9 Credits
Writing Core Area	4 3
	· · · · · 3
Science/Technology Core Area (See Note	1) 0

Global Perspectives and Diversity Core Area Mathematics Competency (See page 23 for information on how to fulfill this requirement. Course work may be needed.)

76 MINIMUM TOTAL

NOTE

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

SUGGESTED COURSE SEQUENCE

Courses listed in Semester I below must be completed prior to admission to the Radiologic Technology Program as part of the Phase I requirements for admission. MATH 112-Intermediate Algebra is also required for admission and may be waived by successfully passing the MATH 112 proficiency exam. The program admits students in the fail 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.

1	11	· 111	١V	
ANAT 201	AHCC 104	CABS 102	IRXT 113	
	IRXT 100	IRXT 112	IRXT 122	
	IRXT 111	IRXT 121	IRXT 204	
	PHGY 202	IRXT 202		
v	٧I	VII		
IRXT 131	IRXT 114	IRXT 219		
IRXT 200	IRXT 132	IRXT 236		
IRXT 210	IRXT 215	Lim.Ch.		
IBXT 214	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 REGISTRAPS 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.

SURGICAL TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0216 (Effective Fall 2000 - Summer 2001)

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 appropriate 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 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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

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 2000/2001 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 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	ENTS	TOTAL: 36.5 CREDITS
CODE	TITLE	CREDIT HOURS
AHCC 106	Introduction to Pathology (See Note 1)	2
AHCC 110	Pharmacology-Allied Health (See Note	1) 2
AHCC 112	Health Law and Ethics (See Note 1)	2
ANAT 145	Introductory Anat & Physiology	4
CHSE 121	Medical Term Allied Health I	2.5
SURG 100	Fundamental Surgical Tech	Э
SURG 101	The Surgical Patient	2
SURG 103	Surgical Asepsis (See Note 1)	2
SURG 104	Operative Procedures	6
SURG 121	Applied Surg Techniques 1	1
SURG 122	Applied Surg Techniques II	3
SURG 123	Applied Surg Techniques III	. 5
SURG 124	Applied Surg Techniques IV	2
	MINIMUM TOTAL	36.5

NOTES

1. This course may be taken prior to admission to the program.

Complete the courses required for program with a minimum 2.5 grade or better.

SUGGESTED COURSE SEQUENCE

Courses listed in Semester I below must be completed prior to admission to the Surgical Technology program as part of the Phase I requirements for admission. 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.

1	11	HI	
ANAT 145	AHCC 106	AHCC 112	
CHSE 121	AHCC 110	SURG 104	
	SURG 100	SURG 123	
	SURG 101	SURG 124	
	SURG 103		
	SURG 121		
	SURG 122		

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HEATING, AC & REFRIGERATION ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0161 (Effective Fall 2000-Summer 2005)

Heating, Ventilation, Air Conditioning/Refrigeration technicians (HVAC/R) 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. HVAC/R 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 people and understand all aspects of the construction trades. HVAC/R technicians are employed by HVAC/R contractors, hospitals, schools, manufacturers, housing and apartment complexes, restaurants, food stores, municipalities and government organizations.

PREREQUISITES

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Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

		TOTAL: 50 CREDITS CREDIT HOURS
HVAC 100	Fundamentals of HVAC	3
HVAC 105	Sheet Metal Fabrication/Instal	2
HVAC 110	Applied Electricity I	2
HVAC 111	Applied Electricity II	2
HVAC 120	Heating I	4
HVAC 130	Air Conditioning I	4
HVAC 201	Mechanical Code	4
HVAC 211	Schematics	3
HVAC 220	Heating II	4
HVAC 221	Introduction to Hydronics	3
HVAC 230	Air Conditioning I	4
HVAC 231	Heat Pump	4
HVAC 240	Refrigeration I	4
HVAC 241	Refrigeration II	4
HVAC 250	Pneumatic Control	3

TOTAL: 19 CREDITS LIMITED CHOICE REQUIREMENTS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	General Education Core Areas	12 Credits
	Writing Core Area	3
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for Inform how to fulfill this requirement. Course work may b	
CHOICE 2:	Technical Related	7-8 Credits
BLDT 103	Structural Blueprint Reading	4
BLDT 121	Residential Framing	4
BLDT 281	International Code	3
CNCP 101	PC Applications for Technology	Э
COOP 210	Cooperative Education (Tech)	3
WELD 100	Combination Welding	4
HEED 100		

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	131	IV	
HVAC 100	HVAC 111	HVAC 220	HVAC 201	
HVAC 105	HVAC 120	HVAC 230	HVAC 221	
HVAC 110	HVAC 130	HVAC 240	HVAC 231	
Lim.Ch.	HVAC 211	Lim.Ch.	HVAC 241	
Lim.Ch.	Lim.Ch.	Lim.Ch.	HVAC 250	11 .
Linden			tim.Ch.	

IEATING AND AIR CONDITIONING CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0143 (Effective Fall 2000-Summer 2005)

Students receive instruction on how to install, service and maintain heating, air conditioning and refrigeration systems, including sheet metal and electrical, to prepare them for an entry-level position.

PREBEQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 42 CREDITS
COOE	TITLE	
HVAC 100	Fundamentals of HVAC	3
HVAC 105	Sheet Metal Fabrication/Instal	2
HVAC 110	Applied Electricity I	2
HVAC 111	Applied Electricity II	2
HVAC 120	Heating I	. 4
HVAC 130	Air Conditioning I	. • 4
HVAC 201	Mechanical Code	4
HVAC 211	Schematics	Э
HVAC 220	Heating II	- 4
HVAC 221	Introduction to Hydronics	3
HVAC 230	Air Conditioning II	4
HVAC 240	Refrigeration I	4
HVAC 250	Pneumatic Control	3
	MINIMUM TOTAL	42

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	11	111	IV	
HVAC 100	HVAC 111	HVAC 201	HVAC 221	
HVAC 105	HVAC 120	HVAC 220	HVAC 240	
HVAC 110	HVAC 130	HVAC 230	HVAC 250	
	HVAC 211			

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HOTEL-MOTEL/FOOD MANAGEMENT ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0711 (Effective Fall 2000-Summer 2005)

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 establishment's 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 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 section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general aducation requirements, see page 23.

INFORMATION

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

REQUIREMENTS		TOTAL: 43 CREDITS CREDIT HOURS
ACCG 101	Accounting Info for Management	3
CABS 110	Microsoft Office	3
CISB 200	Info Sys Tech/Problem Solving	3
HMFS 101	Intro Hospitality/Tourism	3
HMFS 110	Sanitation and Safety	3
HMFS 131	Food and Beverage Management	4
HMFS 190	Internship and Seminar	. 3
HMFS 204	Hospitality HR Management	-3
HMFS 205	Hospitality Management	3
HMFS 215	Hospitality Sales/Marketing	. 3
HMFS 232	Food and Labor Cost Control	3
MGMT 150	Managing Customer Relations	- 3
SPCH 110	Oral Communic in the Workplace	3
WRIT 127	Business Writing	3
LIMITED CH	OICE REQUIREMENTS	TOTAL: 21-23 CREDITS

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

CHOICE 1: (See the GEI	General Education Core Areas NERAL EDUCATION section above)	3 Credits
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area (See Note 1)	0
	Science/Technology Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for infor	mation on
	how to fulfill this requirement. Course work may l	e needed.)
CHOICE 2:	Specialization (Choose one subchoice)	16–20 Credits
Subchoice 2	A: Hotel-Motel Management Specialist	
HMFS 203	Hospitality Law	3
HMFS 206	Rooms Division Management	3
HMFS 229	Convention/Meeting Management	Э
HMFS 240	Current Topics in Hospitality	3
MGMT 228	Organizational Behavior	3
MGMT 239	Time and Stress Management	3

hoice 28: Food Management Specialist

annouce se	cood Management Specialist		
HMFS 132	Food Production		
HMFS 135	Hospitality Purchasing	З	
HMFS 170	Menu Management and Design	3	
HMES 203	Hospitality Law	3	
HMFS 254	Mixology	4	
MGMT 228	Organizational Behavior	З	
Subchoice 20 HMFS 132 HMFS 135 HMFS 137 HMFS 170 HMFS 275 HMFS 280	C: Culinary Arts Specialist Food Production Hospitality Purchasing Catering Management Menu Management and Design Bakery Products Food Decorating Garnishes	4 3 4 3 2 3	

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.

1	н.	10	ł¥	
CABS 110	ACCG 101	CISB 200	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 \$27	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 PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE. 114 E LANSING COMMUNITY COLLEGE CATALOG 2000-2001

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HUMAN SERVICES CAREERS

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CHILD DEVELOPMENT ASSOCIATE IN APPLIED SCIENCE

Curriculum Code: 0108 (Effective Fail 2000-Summer 2005)

This degree program prepares individuals to work in child care as a teacher, teacher assistent, or program director. Students learn to plan and implement high quality, developmentally appropriate programs for all ages of children, infants through school-age, in both centers and family child care homas. 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 day-time 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.

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Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Human, Health and Public Service Careers Department, Gannon Vocational-Technical Center, Room 175, telephone number (517) 483-1410.

REQUIREME	NTS	TOTAL: 44 CREDITS
CODE	TITLE	CREDIT HOURS
CHDV 101	Child Growth/Devel: 0-5 Years	4
CHDV 111	Child Guidance/Communication	4
CHDV 112	Family Relationship/Child Care	2
CHDV 113	Health/Safety Issue:Child Care	2
CHDV 220	Preschool Curric/Learning Env	4
CHDV 221	Infant-Toddler Program Dev	3
CHDV 222	School-Age Child Care Prog Dev	2
CHDV 230	Child Care Center Admin	2
CHDV 284	Child Development Practicum (See Note 1)) 5
ISCI 121	Integrated Sci for Education I	4
SOCL 120	Introduction to Sociology	4
WRIT 121	Composition I	4
WRIT 122	Composition II	4
	DICE REQUIREMENTS indicated number of credits from each CHO	TOTAL: 22 CREDITS
complete the	indicated number of credits from each CHO	
CHOICE 1:	General Education Core Areas	3 Credits
(See the GEN	ERAL EDUCATION section above)	
	Writing Core Area (See Note 2)	0
	Spaech Communication Core Area	3
	Science/Technology Core Area (See Note	2) 0
	Global Perspectives and Diversity Core Ar	ea (See Note 2) 0
	Mathematics Competancy (See page 23 for	or information on
	how to fulfill this requirement. Course work	r may be needed.)
CHOICE 2:	Social Science (See Note 3)	4 Credits
CHOICE 3:	Science/Mathematics (See Note 3)	4 Credits
CHOICE 4:	Humanities (See Note 3)	8 Credits
CHOICE 5:	Professional Related Courses (See Note	-
EMSB 102	CPR for Health Care Prof	.5
EMSB 106	Infant/Child CPR	.25
HUSE 100	Introduction to Human Services	3
HUSE 101	Personal Dimensions/Human Serv	2
HUSE 110	Intro/Child Abuse and Neglect	3

Introduction/Substance Abuse

Introduction/Family Violence

MINIMUM TOTAL

NOTES

- 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 Human, Health and Public Services Careers Department, Gannon Vocational-Technical Center, Room 175.
- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- See the MACRAO Transfer Agreement in the Transfer Information section of this catalog for appropriate social science, science/mathematics, and humanities courses. ANAT 145 is strongly recommended as the science requirement.
- Students may also choose from CHDV-prefix courses not already used to meet degree requirements.
- CHDV 111 and CHDV 220 must be completed with a minimum 2.5 grade or better. All other required CHDV course must be completed with a minimum 2.0 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	11	111	١V	
CHDV 101	CHDV 113	CHDV 112	CHDV 230	
CHDV 111	CHDV 220	CHDV 221	CHDV 284	
ISCI 121	CHDV 222	Lim.Ch.2	SOCL 120	
WRIT 121	WRIT 122	Lim.Ch.3	Lim.Ch.1	ie.
Lim,Ch.5	Lim.Ch.4	Lim.Ch.4	Lim.Ch,5	

CDA CREDENTIAL TRAINING CERTIFICATE OF COMPLETION

Curriculum Code: 0921 (Effective Fall 2000-Summer 2005)

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. This certificate provides the training required for CDA credential assessment.

REQUIREM	ENTS	TOTAL: 11 CREDITS
CODE	TITLE	CREDIT HOURS
CHDV 101	Child Growth/Devel: 0-5 Years	4
CHDV 111	Child Guidance/Communication	4
CHDV 251	CDA Credentialing Preparation	3

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

CHOICE 1:		3-4 Credits
CHDV 220	Preschool Curric/Learning Env	4
CHDV 221	Infant-Toddier Program Dev	3
	MINIMUM TOTAL	14

NOTE

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 Each course must be completed with a 2.0 minimum grade to be counted toward certificate 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	11	
CHDV 101	Lim.Ch.	CHDV 251	
CHDV 111			

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. LANSING COMMUNITY COLLEGE CATALOG 2000–2001 18 115

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HUMAN SERVICES CAREERS

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CHILD DEVELOPMENT CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0133 (Effective Fall 2000-Summer 2005)

The certificate program consists of child development course work. It prepares individuals for positions as assistant teachers or teachers in child care programs. Courses for the certificate can be applied toward the associate degree. This curriculum requires three semesters to complete, not including summer.

PREBEQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Human, Health and Public Service Careers Department, Gannon Vocational-Technical Center, Room 175, telephone number (517) 483-1410.

REQUIREMENTS		TOTAL: 32 CREDITS
CHDV 101	Child Growth/Devel: 0-5 Years	4
CHDV 111	Child Guidance/Communication	4
CHDV 112	Family Relationship/Child Care	2
CHDV 113	Health/Safety Issue:Child Care	2
CHDV 220	Preschool Curric/Learning Env	4
CHDV 221	Infant-Toddler Program Dev	3
CHDV 222	School-Age Child Care Prog Dev	2
CHDV 230	Child Care Center Admin	. 2
CHDV 284	Child Development Practicum (See Note 1)) 5
WRIT 121	Composition I	4

LIMITED CHOICE REQUIREMENTS

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

CHOICE 1:	Professional Related Courses (See Note 2)	3 Credits
EMSB 102	CPR for Health Care Prof	5
EMSB 106	Infant/Child CPR	.25
HUSE 100	Introduction to Human Services	3
HUSE 101	Personal Dimensions/Human Serv	2
HUSE 110	Intro/Child Abuse and Neglect	
HUSE 112	Introduction/Substance Abuse	. 3
HUSE 120	Introduction/Family Violence	2
	MINIMUM TOTAL	35

NOTES

- 1. 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 Human, Health and Public Services Careers Department, Gannon Vocational-Technical Center, Room 175.
- Students may also choose from CHDV-prefix courses not already used to meet 2. degree requirements.
- З. CHDV 111 and CHDV 220 must be completed with a minimum 2.5 grade or better. Other required CHDV course must be completed with a minimum 2.0 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.

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CHDV 101	CHDV 112	CHDV 230
CHDV 111	CHDV 113	CHDV 284
CHDV 221	CHDV 220	Lim.Ch.
WRIT 121	CHDV 222	Lim.Ch.

GERONTOLOGY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0152 (Effective Fall 2000-Summer 2005)

The certificate program consists of courses in aging and human services. It is designed for persons who have achieved a degree and wish to focus their skills in gerontology, Two semesters of field placement are included. It takes four semesters to complete this curriculum, not including summers.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Human, Health and Public Service Careers Department, Gannon Vocational-Technical Center, Room 175, telephone number (517) 483-1410.

REQUIREMENTS CODE TITLE		TOTAL: 29 CREDITS CREDIT HOURS	
GERO 100	Introduction to Human Aging	3	
GERO 101	Programs/Services for Aging	3	
GERO 203	Physical/Mental Health Aging	. 3	
GERO 282	Gerontology Practicum I (See Note 1)	. 4	
GERO 284	Gerontology Practicum II	. 4	
HUSE 100	Introduction to Human Services	3	
HUSE 101	Personal Dimensions/Human Serv	2	
SOWK 203	Social Work Interviewing	. 3	
WRIT 121	Composition I	. 4	
LIMITED CH	OICE REQUIREMENTS	TOTAL: 3 CREDITS	

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

CHOICE 1:	Professional Related Courses (See Note 2)	3 Credits	
	MINIMUM TOTAL	30	

NOTES

- 1. 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 all 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 Human, Health and Public Service Careers Department, Gannon Vocational-Technical Center, Room 175. Contact a program advisor for further information.
- 2. Students may choose from any GERO-prefix courses numbered GERO 128-199.
- 3. 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.

<u>ŧ.</u>	II	<u>fit</u>	IV	
GERO 100 GERO 203 HUSE 100	GERO 101 HUSE 101 SOWK 203	GERO 282 WRIT 121 Lim:Ch.	GERO 284 Lim.Ch.	

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HUMAN SERVICES ASSOCIATE IN APPLIED SCIENCE

Curriculum Code: 0915 (Effective Fail 2000-Summer 2005)

Human Services is a field in which individuals work in social service agencies assisting professional staff to meet human needs. Responsibilities include helping individuals and families identify needs, cope with problems, and obtain services; leading group activities; and assisting individuals in meeting everyday living skills. Students choose from three areas of specialization. Gerontology studies the process of aging and prepares individuals to work with older adults and their families. The Substance Abuse area prepares individuals to work in agencies with substance abuse prevention or treatment components. The Family Emphasis area focuses on various family situations and prepares individuals to work in a wide range of family and youth agencies. Two consecutive semesters of field work during the last year provide work-site experience. Some transfer opportunities exist, however 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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Human, Health and Public Service Careers Department, Gannon Vocational-Technical Center, Room 175, telephone number (517) 463-1410.

REQUIREMEN	ITS	TOTAL: 29 CREDITS CREDIT HOURS
CODE	TITLE	
ANAT 145	Introductory Anat & Physiology	4
GERO 100	Introduction to Human Aging	3
HUSE 100	Introduction to Human Services	3
HUSE 101	Personal Dimensions/Human Services	2
HUSE 112	Introduction/Substance Abuse	3
SOCL 120	Introduction to Sociology	4
SOWK 203	Social Work Interviewing	3
SPCH 120	Dynamics of Communication	3
WRIT-121	Composition I	4
44E01.121	Competition	
LIMITED CHO	DICE REQUIREMENTS	TOTAL: 40 CREDITS
Complete the	indicated number of credits from each C	HOICE listed below.
		4 Credits
CHOICE 1:	General Education Core Areas	4 Creans
(See the GEI	VERAL EDUCATION section above)	0
v	Writing Core Area (See Note 1)	-
	Speech Communication Core Area (Se	E NULE 1/
	 Science/Technology Core Area (See N 	ote 2) 4
	Global Perspectives and Diversity Core	Area (See Note 1)
	Mathematics Competency (See page 2	23 for information on
	how to fulfill this requirement. Course	vork may be needed.)
		4 Credits
CHOICE 2:	Social Science	4 0160113
POLS 120	American Political System	4
POLS 121	State and Local Government	4
PSYC 200	Introduction to Psychology	4
1.2		8 Credits
CHOICE 3:	Humanities (See Note 3)	5 Of Califo
		4 Credits
CHOICE 4:	English Composition	4
ENGL 122	Writing: Literature and Ideas	4
WRIT 122	Composition II	

www.lcc.edu Specialization (Choose one subchoice) CHOICE 5: Subchoice 5A: Gerontology (See Note 4) 3 Programs/Services for Aging GERO 101 З **GERO 203** Physical/Mental Health Aging 4 Gerontology Practicum I (See Note 5) **GERO 282** л Gerontology Practicum II GERO 284 Subchoice 58: Substance Abuse 3 Substance Abuse: Spec Pop/Adol HUSE 240 з Substance Abuse Prevention HUSE 241 З Chemically Dependent Family HUSE 242 З Sub Abuse: Treatment, Intrv **HUSE 244** 4 Substance Abuse Practicum I (See Note 5) HUSE 286 4 Substance Abuse Practicum II HUSE 288 Subchoice 5C: Family Emphasis (See Note 6) 4 Human Services Practicum I (See Note 5) **HUSE 282** 4 Human Services Practicum II HUSE 284 3 Marriage and Family SOCL 254 З Minority Groups SOCL 260 69

MINIMUM TOTAL

NOTES

- Students completing REQUIREMENTS have fulfilled the requirements for this Core area
- Students must select a four-credit General Education Science/Technology Core course that will also satisfy the Science/Mathematics transfer requirement for MACRAO. See the MACRAO Transfer Agreement in the Transfer Information section of this catalog.
- See the MACRAO Transfer Agreement in the Transfer Information section of this catalog for appropriate humanities courses.
- In addition to the courses listed in Subchoice 5A, students must also complete three credits of departmentally approved GERO electives and three credits of HUSE electives that are not already used to meet degree requirements. Students must consult with a Human Services Program Advisor regarding course selection.
- 5. There is an application process and guidelines for admission into the field placement component. Students should meet with a program advisor to develop a plan to meet all field work prerequisites. Applications are due by April 1 for admission to fall field placement. Application packets with current requirements are available beginning in January from the Human, Health and Public Service Careers Department, Gannon Vocational-Technical Center, Room 175. See a Human Services Program Advisor for further information.
- 6. In addition to the courses listed in Subchoice 5C, students must also complete six credits of departmentally approved Human Services area courses that are not already used to meet degree requirements. Students must consult with a Human Services Program Advisor regarding course selection.
- All HUSE, GERO, and SOWK courses used toward this degree must be com-7. pleted with a minimum 2.5 grade.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when depertments 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	111	IV	
GERO 100 HUSE 100 HUSE 101 HUSE 112 SOCL 120 Lim.Ch.5	SOWK 203 WRIT 121 Lim.Ch.3 Lim.Ch.5 Lim.Ch.5	ANAT 145 SPCH 120 Lim.Ch.4 Lim.Ch.5 Lim.Ch.5	Lim,Ch.1 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 OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE. LANSING COMMUNITY COLLEGE CATALOG 2000-2001 # 117

HUMAN SERVICES CAREERS

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SUBSTANCE ABUSE CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0239 (Effective Fall 2000-Summer 2005)

A substance abuse worker is an individual with specialized knowledge and skills in the area of substance abuse, including its causes, treatment, and prevention strategies. The certificate is designed for individuals who have achieved a degree and wish to focus their skills in the substance abuse area. Two semesters of field work are required. It takes five semesters to complete this curriculum.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Human, Health and Public Service Careers Department, Gannon Vocational-Technical Center, Room 175, telephone number (517) 483-1410.

REQUIREM	ENTS TITLE	TOTAL: 35 CREDITS CREDIT HOURS
HUSE 100	Introduction to Human Services	. 3
HUSE 101	Personal Dimensions/Human Serv	2
HUSE 112	Introduction/Substance Abuse	3
HUSE 240	Substance Abuse: Spec Pop/Adol	3
HUSE 241	Substance Abuse Prevention	3
HUSE 242	Chemically Dependent Family	3
HUSE 244	Sub Abuse:Treatment, Intrv	3
HUSE 286	Substance Abuse Practicum I (See Note 1	
HUSE 288	Substance Abuse Practicum II	4
SOWK 203	Social Work Interviewing	3
WRIT 121	Composition I	4
	MINIMUM TOTAL	35

NOTES

- There is an application process and guidelines for admission into the field placement/practicum component. Students should meet with a program advisor to develop a plan to meet all field work prerequisites. Applications are due by April 1 for admission to Fall field placement. Application packets with current requirements are available beginning in January from the Human,
- Health and Public Service Careers Department, Gannon Vocational-Technical Center, Room 175. Contact a program advisor for further information. 2. All required HUSE and SOWK courses must be completed with a minimum
- 2. All required HUSE and SOWK courses must be completed with a minimum 2.5 grade or better.
- 3. Students should plan to begin this curriculum summer semester.

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>	11	131	₩ •	· ·
HUSE 112 WRIT 121	HUSE 100 HUSE 101 HUSE 242 HUSE 244	HUSE 240 HUSE 241 SOWK 203	HUSE 286	

HUSE 288

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CNC PROGRAMMING ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0266 (Effective Fall 2000-Summer 2005)

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page B of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 50 CREDITS CREDIT HOURS	
CNCP 110	Foundations of CNC Programming	4	
CNCP 130	Machine Controls and Setup	4	
CNCP 200	Unigraphics NC	4	
CNCP 210	Mastercam	4	
CNCP 215	Generative Machining	4	
DTDS 180	Unigraphics I	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	4	
WRIT 124	Technical Writing	3	
		TOTAL 12 12 CREDITS	

LIMITED CHOICE REQUIREMENTS TOTAL: 12–13 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHQICE 1:	General Education Core Areas	9 Credits
(See the GEN	VERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	. 3
	Mathematics Competency (See page 23 for info	rmation on
	how to fulfill this requirement. Course work may	
CHOICE 2:	Drafting	3-4 Credits

0,10,01		
CNCP 101	PC Applications for Technology	3
COOP 210	Cooperative Education (Tech)	З
DTDS 101	Drafting I	4
DTDS 104	Descriptive Geometry	4
DTDS 110	Industrial Blueprint Reading	З
DTDS 131	AutoCAD Basic 2-D	4
DTDS 155	IDEAS	4
DTDS 180	Unigraphics I	4
		62
	MINIMUM TOTAL	02

NOTE

1. 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.

ł	1	181	IV	
MACH 105	CNCP 110	CNCP 130	CNCP 200	
WBIT 124	MACH 110	CNCP 210	CNCP 215	
Lim.Ch.	MACH 111	DTDS 180	Lim.Ch.	
Lim.Ch.	MACH 120	MACH 135	Lim.Ch.	
	MACH 140			

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INDUSTRIAL TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0110 (Effective Fall 2000-Summer 2005)

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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

ENT'S	TOTAL: 51 CREDITS
Foundations of CNC Programming	4
Industrial Blueprint Reading	3
Medical First Responder	4
Applied Electricity I	2
Manufacturing Processes	4
Machine Tool Survey	3
Effect Use Machinery Handbook	4
Metallurgy and Heat Treat	4
Technical Math I	4
Technical Math II	4
Industrial Hydrautics	4
Applied Physics	4
Combination Welding	4
Technical Writing	3
	TITLE Foundations of CNC Programming Industrial Blueprint Reading Medical First Responder Applied Electricity I Manufacturing Processes Machine Tool Survey Effect Use Machinery Handbook Metallurgy and Heat Treat Technical Math I Industrial Hydraulics Applied Physics Combination Welding

LIMITED CHOICE REQUIREMENTS TOTAL: 12-13 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: (See the GEI	General Education Core Areas VERAL EDUCATION section above)	9 Credits
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See Note 1)	
CHOICE 2:	Technical Related	3–4 Credits
CNCP 101	PC Applications for Technology	Э
MACH 140	Tooling Theory and Practices	4
MACH 210	Prin Electric Discharge Mach	4
QUAL 121	Intro Statistical Process Cont	3

MINIMUM TOTAL

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	H.	111	IV .	
HVAC 110	DTDS 110	MACH 135	CNCP 110	
MACH 100	MACH 105	MEGM 101	EMTA 100	
MATH 114	MACH 120	PHYS 200	Lim.Ch.	
WELD 100	MATH 115	Lim.Ch.	Lim.Ch.	
	WRIT 124	Lim.Ch.		

INDUSTRIAL TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0150 (Effective Fall 2000-Summer 2005)

This certificate provides students with a basic understanding of a variety of technologies to enhance the theory skills they already possess.

REQUIREMENTS		TOTAL: 23 CREDITS
CODE	TITLE	CREDIT HOURS
DTDS 110	Industrial Blueprint Reading	3
EMTA 100	Medical First Responder	4
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
		. 4

LIMITED CHOICE REQUIREMENTS TOTAL: 12 CREDITS Complete the indicated number of credits from each CHOICE 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
QUAL 107	Problem-Solving Techniques	3
WRIT 124	Technical Writing	3
	-	0

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	11 .		
DTDS 110	EMTA 100	······································	
MACH 100	MACH ‡20		
MATH 114	MACH 135		
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 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. 120 ILLANSING COMMUNITY COLLEGE CATALOG 2000-2001

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MACHINE MAINTENANCE ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0173 (Effective Fall 2000-Summer 2005)

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 technicians also need to know how to diagnose hydraulic problems, perform preventive maintenance procedures, and be able to work well with others. Every industrial plant will have one or more machine maintenance technicians. They may have different titles, but the work is the same.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREME		TOTAL: 47 CREDITS
CODE	TITLE	CAEDIT HOURS
DTDS 110	Industrial Blueprint Reading	3
EMTA 100	Medical First Responder	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
VFGM 101	Industrial Hydraulics	
MFGM 110	Machine Maintenance I	4
MFGM 111	Machine Maintenance II	·
MFGM 120	Industrial Presses	4
MFGM 125	Rigging	2
WRIT 124	Technical Writing	:
	DICE REOUIREMENTS indicated number of credits from each (TOTAL: 22-24 CREDITS CHOICE listed below.
CHOICE 1:	General Education Core Areas	9 Credit
	VERAL EDUCATION section above)	2 Credit
	VEHAL EDUGATION Section abover	
DEC INC OLI	Writing Core Area (See Note 1)	
	Writing Core Area (See Note 1) Speech Communication Core Area	
	Writing Core Area (See Note 1) Speech Communication Core Area Science/Technology Core Area	:
	Writing Ccre Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Cor	e Area
	Writing Core Area (See Note 1) Speech Communication Core Area Science/Technology Core Area	e Area 23 for information on
	Writing Ccre Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Cor Mathematics Competency (See page how to fulfill this requirement. Course	e Area 23 for information on work may be needed.)
CHOICE 2:	Writing Core Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Cor Mathematics Competency (See page how to fulfill this requirement. Course Electrical Technology	e Area 23 for information on work may be needed.) 2–3 Credit
CHOICE 2: ELTE 110	Writing Core Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Cor Mathematics Competency (See page how to fulfill this requirement. Course Electrical Technology Practical Electricity	e Area 23 for information on work may be needed.) 2–3 Credit
CHOICE 2: ELTE 110	Writing Core Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Cor Mathematics Competency (See page how to fulfill this requirement. Course Electrical Technology	e Area 23 for information on work may be needed.) 2–3 Credit
CHOICE 2: ELTE 110 HVAC 110	Writing Core Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Cor Mathematics Competency (See page how to fulfill this requirement. Course Electrical Technology Practical Electricity	e Area 23 for information on work may be needed.) 2–3 Credit
CHOICE 2: ELTE 110 HVAC 110 CHOICE 3	Writing Core Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Cor Mathematics Competency (See page how to fulfill this requirement. Course Electrical Technology Practical Electricity Applied Electricity 1	e Area 23 for information on work may be needed.) 23 Credit 34 Credit
CHOICE 2: ELTE 110 HVAC 110 CHOICE 3 MACH 100	Writing Core Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Cor Mathematics Competency (See page how to fulfill this requirement. Course Electrical Technology Practical Electricity Applied Electricity I Technical Related Manufacturing Processes	e Area 23 for information on work may be needed.) 2–3 Credit
CHOICE 2: ELTE 110 HVAC 110 CHOICE 3 MACH 100 MACH 140	Writing Ccre Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Cor Mathematics Competency (See page how to fulfill this requirement. Course Electrical Technology Practical Electricity Applied Electricity I Technical Related	e Area 23 for information on work may be needed.) 23 Credit 34 Credit
CHOICE 2: ELTE 110 HVAC 110 CHOICE 3 MACH 100 MACH 140 MFGM 102	Writing Core Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Cor Mathematics Competency (See page how to fulfill this requirement. Course Electrical Technology Practical Electricity Applied Electricity 1 Technical Related Manufacturing Processes Tooling Theory and Practices	e Area 23 for information on work may be needed.) 2–3 Credit 3–4 Credit
CHOICE 2: ELTE 110 HVAC 110 CHOICE 3 MACH 100 MACH 140 MFGM 102 WELD 100	Writing Core Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Cor Mathematics Competency (See page how to fulfill this requirement. Course) Electrical Technology Practical Electricity Applied Electricity I Technical Related Manufacturing Processes Tooling Theory and Practices Industrial Pneumatics Combination Welding	e Area 23 for information on work may be needed.) 2–3 Credit 3–4 Credit
CHOICE 2: ELTE 110 HVAC 110 CHOICE 3 MACH 100 MACH 140 MFGM 102 WELD 100 CHOICE 4:	Writing Core Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Cor Mathematics Competency (See page how to fulfill this requirement. Course Electrical Technology Practical Electricity Applied Electricity I Technical Related Manufacturing Processes Tooling Theory and Practices Industrial Pneumatics	e Area 23 for information on work may be needed.) 2–3 Credit 3–4 Credit 8 Credit
CHOICE 2: ELTE 110 HVAC 110 CHOICE 3 MACH 100 MACH 140 MFGM 102 WELD 100 CHOICE 4: MATH 114	Writing Core Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Cor Mathematics Competency (See page how to fulfill this requirement. Course) Electrical Technology Practical Electricity Applied Electricity I Technical Related Manufacturing Processes Tooling Theory and Practices Industrial Pneumatics Combination Welding Mathematics & Physics	e Area 23 for information on work may be needed.) 2–3 Credit 3–4 Credit 8 Credit
CHOICE 2: ELTE 110 HVAC 110 CHOICE 3 MACH 100 MFGM 102 WELD 100 CHOICE 4: MATH 114 MATH 115 PHYS 200	Writing Core Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Cor Mathematics Competency (See page how to fulfill this requirement. Course Electrical Technology Practical Electricity Applied Electricity I Technical Related Manufacturing Processes Tooling Theory and Practices Industrial Pneumatics Combination Welding Mathematics & Physics Technical Math I	e Area 23 for information on work may be needed.) 2–3 Credit 3–4 Credit

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 LANSING COMMUNITY COLLEGE CATALOG 2000–2001 # 121

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	H	111	IV
MACH 105	MACH 110	DTDS 110	MFGM 111
MFGM 101	MACH 120	EMTA 100	MFGM 120
WRIT 124	MFGM 110	MACH 111	MFGM 125
Lim.Ch.	Lim.Ch.	MACH 135	Lim,Ch.
Lim.Ch.	Lim.Ch.	Lim.Ch.	Lim.Ch.

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MACHINE REPAIR **CERTIFICATE OF ACHIEVEMENT**

Curriculum Code: 0147 (Effective Fall 2000-Summer 2005)

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 32 CREDITS
CODE	TITLE	CREDIT HOURS
DTDS 110	Industrial Blueprint Reading	.3
EMTA 100	Medical First Responder	4
MACH 105	Machine Tool Survey	. 3
MATH 114	Technical Math I	4
MFGM 101	Industrial Hydrautics	4
MFGM 110	Machine Maintenance I	4
MFGM 111	Machine Maintenance II	- 4
MFGM 125	Rigging	. 2
WELD 100	Combination Welding	. 4
	MINIMUM TOTAL	32

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		
DTDS 110	EMTA 100	
MACH 105	MFGM 101	
MATH 114	MFGM 111	
MFGM 110	WELD 100	
MFGM 125		

MILLWRIGHT **CERTIFICATE OF ACHIEVEMENT**

Curriculum Code: 0154 (Effective Fall 2000-Summer 2005)

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREME	NTS TITLE	TOTAL: 33 CREDITS CREDIT HOURS
BLDT 103	Structural Blueprint Reading	4
EMTA 100	Medical First Responder	4
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
	QICE REQUIREMENTS indicated number of credits from eac	TOTAL: 3–4 CREDITS ch 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	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.

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EMTA 100	BLDT 103	MFGM 111	
MACH 105	MACH 135	Lim.Ch.	
MATH 114	MFGM 110		
MFGM 101	MFGM 125		

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. 122 E LANSING COMMUNITY COLLEGE CATALOG 2000-2001

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MACHINIST TOOLMAKER ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0199 (Effective Fall 2000-Summer 2005)

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

Students should see the *Course Descriptions* section of this catalog of the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREM	ENTS	TOTAL: 52 CREDITS
CODE	TITLE	CREDIT HOURS
CNCP 101	PC Applications for Technology	3
CNCP 110	Foundations of CNC Programming	4
DTDS 110	Industrial Blueprint Reading	3
EMTA 100	Medical First Responder	4
MACH 105	Machine Tool Survey	3
MACH 110	Machine Tool Technology 1	4
MACH 111	Machine Tool Technology II	: 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
WRIT 124	Technical Writing	3
LIMITED CH	OICE REQUIREMENTS	TOTAL: 17 CREDITS
Complete the	e indicated number of credits from <i>each</i> CHC	DICE listed below.
CHOICE 1:	General Education Core Areas	9 Credits
(See the GE	NERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core A	rea 3
	Mathematics Competency (See page 23)	for information on
	how to fulfill this requirement. Course wor	'k may be needed.)
CHOICE 2:	Mathematics	8 Credits
MATH 114	Technical Math I	4

	MINIMUM TOTAL	69
MACH 212	Compound Angles	4
MATH 115	Technical Math II	4
MATH 114	Technical Math I	4
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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.

1	41	\$	IV	•
EMTA 100	DTDS 110	CNCP 101	CNCP 110	
MACH 105	MACH 110	MACH 111	MACH 112	
MACH 120	MACH 135	MACH 140	MACH 130	- 14
Lim.Ch.	WRIT 124	Lim.Ch.	MACH 210	
Lim.Ch.	Lim.Ch.	Lim.Ch.	· .	
				1

TOOL AND DIE MAKER CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0141 (Effective Fall 2000-Summer 2005)

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.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 38 CREDITS	
CODE	TITLE :	CREDIT HOURS	
DTDS 110	Industrial Blueprint Reading	з	
EMTA 100	Medical First Responder	4	
MACH 105	Machine Tool Survey	3	
MACH 110	Machine Tool Technology I	4	
MACH 111	Machine Tool Technology II	. 4	
MACH 112	Machine Tool Technology III	4	
MACH 120	Effect Use Machinery Handbook	4	
MACH 135	Metallurgy and Heat Treat	- 4	
MACH 140	Tooling Theory and Practices	4	
MATH 114	Technical Math I	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.

<u>I</u>	11 .		
DTDS 110	EMTA 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 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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WELDING TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0186 (Effective Fall 2000-Summer 2005)

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics.

For information on how to fulfill all general education requirements, see page 23. INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIP	IEM	EN	TS
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CODE	TITLE	TOTAL: 46 CREDITS
EMTA 100	Medical First Responder	CREDIT HOURS
MACH 105	Machine Tool Survey	4
MACH 135	Metallurgy end Heat Treat	3
MFGM 125	Rigging	4
WELD 100	Combination Welding	2
WELD 101	Advanced ARC Welding	4
WELD 110	Gas Metal ARC Welding	4
WELD 111	Gas Tungsten ARC Welding	
WELD 120	Struct Fabrication/Inspec	4
WELD 125	Struct Blueprint Reading Weld	4
WELD 201	Tool end Die Welding	2
WELD 205	Pipe Welding	4
WRIT 124	Technical Writing	.4
	i sennezi winang	3
LIMITED CHO Complete the	DICE REQUIREMENTS Indicated number of credits from each (TOTAL: 15-16 CREDITS CHOICE listed below.

CHOICE 1: (See the GE)	General Education Core Areas	9 Credits
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	=
	Mathematics Competency (See page 23 for infor how to fulfill this requirement. Course work may l	
CHOICE 2: COOP 210	Technical Related Cooperative Education (Tech)	6-7 Credits
ELTE 110	Practical Electricity	Э
MACH 100	Manufacturing Processes	3
MFGM 102	Industrial Pneumatics	4
	and a realidance	3
	MINIMUM TOTAL	61
NOTE 1. Students co Core area.	ompleting REQUIREMENTS have fulfilled the requir	•

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>	ал — 65 л. <u>И</u>	. 19	e interación de	·
MACH 105 MFGM 125 WELD 100 Lim.Ch.	MACH 135 WELD 101 WELD 110 WRIT 124	WELD 111 WELD 120 WELD 125 Lim.Ch. Lim.Ch.	EMTA 100 WELD 201 WELD 205 Lim.Ch. Lim.Ch.	

WELDING TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0156 (Effective Fall 2000-Summer 2005)

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.

REOUIREM	ENTS TITLE		TOTAL: 32	
EMTA 100	Medical First Responder		CA	EDIT HOURS
MACH 135	Metallurgy and Heat Treat			4
MFGM 125	Rigging	81 - A		4
WELD 100	Combination Welding		5.1	. 2
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		1	4
			· .	÷ ≊.,⊴° 2
	MINIMUM TOTAL		1.1	1

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>	11	101	
EMTA 100	MACH 135	WELD 111	
MEGM 125	WELD 101	WELD 120	
WELD 100	WELD 110	WELD 125	

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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INTERIOR DESIGN TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 10267 (Effective Fall 2000–Summer 2005)

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

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Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

	ENTS TITLE	TOTAL: 54 CREDITS
ARCH 101	Architectural Drafting	4
ARCH 121	Visual Communication I	. 3
INTR 100	Interior Design Fundamentals	3
INTR 110	Applied Color Design/Theory	3
INTB 151	Computer-Aided Kitchen Design	4
INTR 170	Intro to Interior Design	4
INTR 175	Interior Space Planning	3
INTR 190	Interior/Materials/Equipment	4
INTR 222	CADD for Interiors	3
INTR 225	CADD for Space Planning	3
INTR 240	Fundamentals of Lighting	3
INTB 244	3-D Visual Display Studio	3
INTB 246	Residential Interiors Studio	3
INTR 248	Non-Residential Interiors Studio	3
INTR 252	Codes and Specifications	2
INTR 256	Interior Professional Practice	3
INTR 263	Interior Design Internship	1
INTR 270	Interior Design Portfolio	2

LIMITED CHOICE REQUIREMENTS TOTAL: 13 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	General Education Core Areas	9 Credits
1066 110 011	Writing Core Area	3
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area (See No Mathematics Competency (See page 23 for information how to fulfill this requirement. Course work may be no	on on
CHOICE 2:	Discipline Related History	4 Credits
HUMS 211	History of Art	4
HUMS 212	History of Art II	4

MINIMUM TOTAL

NOTE

1. Students must complete one course from Choice 2 to fulfill 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 DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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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	11	18	1V
ARCH 121	ARCH 101	INTR 222	INTR 225
INTR 100	INTR 151	INTR 246	INTR 252
INTR 110	INTR 190	INTR 248	INTR 263
INTR 170	INTR 240	INTR 256	INTR 270
INTR 175	INTR 244	Lim.Ch.1	Lim.Ch.1
		Lim.Ch.1	Lim.Ch.2

INTERIOR DESIGN

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LANDSCAPE CAREERS

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HORTICULTURE ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0189 (Effective Fall 2000-Summer 2005)

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 employed 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.

PREREOUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gennon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREM	TITLE	TOTAL: 34 CREDITS
HORT 102	Intro Ornamental Horticulture	2
HORT 105	Pest/Problem Ornamental Plants	2
HORT 230	Plant Propagation/Nursery Op	4
HORT 235	Greenhouse Structures/Environ	3
LAND 100	Intro to Landscape Drafting	2
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
WRIT 124	Technical Writing	3
	OICE REQUIREMENTS	TOTAL: 30 CREDITS
Complete the	e Indicated number of credits from each CHI	DICE listed below.
CHOICE 1:	General Education Core Areas	9 Credits
(See the GE	NERAL EDUCATION section above)	
÷	Writing Core Area (See Note 1)	0
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core A	
	Mathematics Competency (See page 23 f	for information on
	how to fulfill this requirement. Course wor	k may be пeeded.)
CHOICE 2:	Specialization (Choose one subchoice)	21 Credits
	A: Floriculture	
HORT 103	Follage and Flowering Plants	2
HORT 107	Beginning Floral Design	2
HORT 109	Contemporary Floral Design	2
HORT 110	Wedding Floral Design	2
HORT 143	Cut Flower, Follage, Pot Plant	4
HORT 236	Greenhouse Ornamentals	3
HORT 237	Bedding Plant Production	3
HORT 238	Gerden Center/Nursary Sales	3

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Subchoice 2B: Landscape Horticulture

LAND 150	Principles of Landscape Arch		
LAND 152	Landscape Graphics Comm-Begin		
LAND 160	Planting Design I		
LAND 180	Landscape Ecology		
LAND 225	Landscape Cost Estimation		
LAND 232	Professional Res. Land Design		
LAND 233 💠	Grounds Management		
1.16	and the second		
1.50	MINIMUM TOTAL		

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.

Floriculture Option

1	. H		IV .	
HORT 102	HORT 103	HORT 110	HORT 230	,
HORT 107	HORT 105	HORT 237	HORT 238	
HORT 143	HORT 109	LAND 130	LAND 163	
HORT 235	HORT 236	LAND 142	- LAND 282	1.11
LAND 100	LAND 141	Lim.Ch.	Lim.Ch.	
LAND 140	WRIT 124	Lim.Ch.		11

Landscape Horticulture Option

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HORT 102 HORT 235 LAND 100 LAND 140 WRIT 124	HORT 230 LAND 141 LAND 150 LAND 282 Lim.Ch.	HORT 105 LAND 142 LAND 152 LAND 160 LAND 232	LAND 130 LAND 163 LAND 180 LAND 225 LAND 233	
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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 GRAQUATE. 126 IL LANSING COMMUNITY COLLEGE CATALOG 2000-2001

LANDSCAPE ARCHITECTURE ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0203 (Effective Fall 2000–Summer 2005)

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. landscape. 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.

PREREQUISITES

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Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 61 CREDITS
CODE	TITLE	CREDIT HOURS
LAND 100	Intro to Landscape Drafting (See Note 1)	2
LAND 140	Evergreen and Deciduous Trees	Э
LAND 141	Flowering Trees, Shrubs, Vines	3
LAND 150	Principles of Landscape Arch	3
LAND 152	Landscape Graphics Comm-Begin	3
LAND 153	Landscape Graphics Comm-Adv	3
LAND 160	Planting Design I	3
LAND 161	Planting Design II	3
LAND 164	Site Design	3
LAND 170	Site Grading I	3
LAND 171	Site Grading II	3
LAND 172	Site Layout	3
LAND 225	Landscape Cost Estimation	Э
LAND 232	Professional Res. Land Design	3
LAND 233	Grounds Management	Э
LAND 250	Landscape Construction Methods	3
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
WRIT 124	Technical Writing	3

TOTAL: 9 CREDITS LIMITED CHOICE REQUIREMENTS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	General Education Core Areas	9 Credits
(See the GEN	ERAL EDUCATION section above)	
	Writing Core Area (See Note 2)	0
	Speech Communication Core Area	3
	Science/Technology Core Area	з
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for informatic	on on
	how to fulfill this requirement. Course work may be ne	eded.)
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NOTES

MINIMUM TOTAL

70

1. 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.

2. 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 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

LANDSCAPE CAREERS

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 seguence 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	IV .
LAND 100	LAND 141	LAND 161	LAND 171
LAND 140	LAND 153	LAND 170	LAND 172
LAND 150	LAND 160	LAND 232	LAND 225
LAND 152	LAND 164	LAND 250	LAND 233
WRIT 124	LAND 282	LAND 283	LAND 252
Lim.Ch.	Lim.Ch.	Lim.Ch.	LAND 276

LEGAL ASSISTANT

2000-2001 Catalog Lansing Community College

LEGAL ASSISTANT ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0101 (Effective Fall 2000-Summer 2005)

Legal assistants, also know as paralegals, assist lawyers by performing many of the same tasks, except for those considered to be the practice of law. To help lawyers 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 plead-ings, 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.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REQUIREM	ENTS	TOTAL: 39 CREDITS CREDIT HOURS
CABS 113	Microsoft Word Office/ Int Key	4
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	Bush Law I, Basic Principles	3
LEGL 225	Legal Research and Writing II	3
LEGL 228	Computer Tech for Legal Assist	3
WRIT 121	Composition I	4
WRIT 122	Composition II	4
_	OICE REQUIREMENTS	TOTAL: 21 CREDITS

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

CHOICE 1:	General Education Core Areas	9 Credits
(See the GEN	IERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for informati	on on
	how to fulfill this requirement. Course work may be ne	eded.)
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:	General Law	9 Credits
LEGL 218	Litigation Specialties	3
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 280	Legal Assistant Internship	3
	MINIMUM TOTAL	60

NOTE

 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.

1	[]	H	IV	
CABS 113	LEGL 120	LEGL 121	LEGL 225	
LEGL 115	LEGL 211	LEGL 210	LEGL 228	
LEGL 160	WRIT 122	Lim.Ch.1	Lim.Ch.3	
LEGL 215	Lim Ch.1	Lim.Ch.2	Lìm.Ch.3	
WRIT 121	Lim.Ch.1	Lim.Ch.3		

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LEGAL ASSISTANT POST-BACHELOR CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0744 (Effective Fall 2000-Summer 2005)

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.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

REQUIREM		TOTAL: 21 CREDITS
CODE	TITLE	CREDIT HOURS
LEGL 115	Legal Assistant Career/Ethics	3
LEGL 120	Legai Research I <i>(See Note 1)</i>	Э
LEGL 121	Legal Writing I (See Note 1)	3
LEGL 210	Litigation Procedures (See Note 1)	4
LEGL 211	Tort Law (See Note 1)	2
LEGL 215	Busn Law I, Basic Principles	3
LEGL 225	Legal Research and Writing II	3
	OICE REQUIREMENTS	TOTAL: 12 CREDITS

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

CHOICE 1: LEGL 216 LEGL 217 LEGL 220	Business Law Busn Law II, Commercial Law Busn Law III, Busn Organiza Internat Legal Issues/Organiza	3 Credits 3 3 3
CHOICE 2:	General Law	9 Credits
LEGL 218	Litigation Specialties	3
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 Tech for Legal Assist	3
LEGL 280	Legal Assistant Internship	3
	MINIMUM TOTAL	33

NOTES

1. 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.

2. 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,

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	 	
LEGL 115	LEGL 211		
LEGL 120	LEGL 225		
LEGL 121	Lim.Ch.		
LEGL 210	Lim.Ch.		
LEGL 215	Lim.Ch.		
	Lim.Ch.		

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MANAGEMENT

2000-2001 Catalog Lansing Community College

ADVANCED MANAGEMENT **CERTIFICATE OF ACHIEVEMENT**

Curriculum Code: 0280 (Effective Fall 2000-Summer 2005)

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Business Careers Department, Old Central Building, Room 210, telephone number (517) 483-1522 or the Advanced Management Coordinator at (517) 483-1544.

REQUIREME	INTS TITLE	TOTAL: 21 CREDITS CREDIT HOURS
MGMT 304	Organizational Development	3
MGMT 329	Adv Mgmt Communication Skills	3
MGMT 332	Managerial Ethics	з
MGMT 335	Managerial Statistics	3
MGMT 337	Human Resource Momt Skills	3
MGMT 338	Current Topics in Management	3
MGMT 348	Strategic Management/Policy	3
LIMITED CH	OICE REQUIREMENTS	TOTAL: 9-10 CREDITS
Complete the	indicated number of credits from each	CHOICE listed below.
CHOICE 1:	Management	3 Credits
MGMT 223	Supervision	3
MGMT 225	Principles of Management	3
MGMT 300	Managerial Leadership	3
CHOICE 2:	Finance	3 Credits
ACCG 271	Principles of Finance	3
MGMT 346	Managerial Finance	3
CHOICE 3:	Business Related (See Note 2)	3-4 Credits
ACCG 210	Principles of Accounting I	. 4
ACCG 211	Principles of Accounting II	4
BUSN 118	Introduction to Business	3
BUSN 201	International Business	3
CISB 100	Intro Computer Info Systems	3
ECON 201	Principles of Economics-Micro	3
ECON 202	Principles of Economics-Macro	3
LEGL 215	Busn Law I, Basic Principles	3
MKTG 200	Principles of Marketing	3
MKTG 235	Marketing Internship	Э
WR/T 127	Business Writing	Э
	MINIMUM TOTAL	30

NOTES

1. It is recommended that MGMT 348 be taken near the end of this Certificate program.

Students may also choose a maximum of 2 credits total from the T.I.M.E. 2 Series (course codes MGMT 240-MGMT 279) and/or a maximum of 2 credits from CABS-prefix courses of 110 or above,

3. Students should confer with a Business Careers program advisor to assure that selection of Limited Choice courses will best fit their career plans.

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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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		 '
MGMT 304	MGMT 332		
MGMT 329	MGMT 337		
MGMT 335	MGMT 348	1 A.	
MGMT 338	Lim.Ch.		
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HUMAN RESOURCE MANAGEMENT ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0712 (Effective Fall 2000-Summer 2005)

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; 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

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Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

	TITLE	TOTAL: 45 CREDITS CREDIT HOURS
BUSN 118	Introduction to Business	3
CISB 200	Into Sys Tech/Problem Solving	3
LABR 204	Employment Law for Managers	3
MGMT 200	Creative Thinking for Business	3
MGMT 223	Supervision	Э
MGMT 224	Human Resource Management	з
MGMT 225	Principles of Management	Э
MGMT 227	Training/Development for Busn	Э
MGMT 228	Organizational Behavior	з
MGMT 229	Compensation Management	з
MGMT 231	Team Development	Э
MGMT 234	Diversity in the Workplace	3
MGMT 237	Managing/Continual Improvement	Э
SPCH 110	Oral Communic in the Workplace	3
WRIT 127	Business Writing	3

LIMITED CHOICE REQUIREMENTS TOTAL: 15–19 CREDITS

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

CHOICE 1:	General Education Core Areas	0 Credits
(See the GEI	NERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area (See Note 1)	0
	Science/Technology Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area (See	Note 1) 0
	Mathematics Competency (See page 23 for inform	nation on
	how to fulfill this requirement. Course work may be	e needed.)
CHOICE 2:	Specialty Related (See Note 2)	9-11 Credits
BUSN 229	Public Relations	2
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	з
MGMT 150	Managing Customer Relations	3
MGMT 239	Time and Stress Management	3
MGMT 280	Management Internship	з
MGMT 235	Independent Study/Management	1–3
MGMT 300	Managerial Leadership	3
MGMT 304	Organizational Development	Э
MGMT 329	Adv Mgmt Communication Skills	3
MGMT 337	Human Resource Mgmt Skills	з

MKTG 100 MKTG 119	Current Issues in Business Mktg/Manage Your Profess Image	3 3
CHOICE 3:	Computer Related (See Note 3)	3–4 Credits
CHOICE 4:	Quantitative Related	3–4 Credits
ACCG 101	Accounting Info for Management	3
ACCG 210	Principles of Accounting I	4
MATH 117	Math for Business	4
MGMT 335	Managerial Statistics	3
MGMT 346	Managerial Finance	3
	MINIMUM TOTAL	60

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).
- Choose CABS-prefix courses of 110 or above and/or CISB-prefix courses above 100.
- Students should confer with a Business Careers 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.

ł	11	111	IV	
BUSN 118	MGMT 224	LABR 204	MGMT 227	
CISB 200	MGMT 228	MGMT 200	MGMT 229	
MGMT 223	SPCH 110	MGMT 225	MGMT 237	
MGMT 234	WRIT 127	MGMT 231	Lim.Ch.	
Lím.Ch.	Lim.Ch.	Lim, Ch.	Lim.Ch	
	Lim.Ch.			

LABOR RELATIONS CERTIFICATE OF COMPLETION

Curriculum Code: 0256 (Effective Fall 2000-Summer 2005)

Certificate holders may improve their opportunities for advancement in this or a related area. Additional education enhances the individual's employment opportunities.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

REQUIREMENTS		TOTAL: 12 CREDITS
CODE	TITLE	CREDIT HOURS
LABR 200	Intro to Labor Relations	3
LABR 201	Labor Negotiation/Contract Adm	3
LABR 203	Labor Law	3
LABR 204	Employment Law for Managers	3
	MINIMUM TOTAL	12

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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LABR 200	LABR 201
LABR 204	LABR 203

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MANAGEMENT

MANAGEMENT

2000-2001 Catalog Lansing Community College

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MANAGEMENT ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0245 (Effective Fall 2000-Summer 2005)

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 entrylevel 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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

	INTS I I	OTAL: 48 CREDITS
BUSN 118	Introduction to Business	3
BUSN 201	International Business	3
CISB 200	Info Sys Tech/Problem Solving	3
LABR 200	Intro to Labor Relations	. 3
LABR 204	Employment Law for Managers	3
MGMT 200	Creative Thinking for Business	3
MGMT 223	Supervision	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
	DICE REQUIREMENTS TOTA indicated number of credits from each CHOIC	AL: 12-15 CREDITS CE listed below.
CHOICE 1:	General Education Core Areas	0 Credits
(See the GEM	ERAL EDUCATION section above)	
•	Writing Core Area (See Note 1)	0
	Speech Communication Core Area (See No	te 1) 0
	Science/Technology Core Area (See Note 1	
	Global Perspectives and Diversity Core Area	(See Note 1) 0
	Mathematics Competency (See page 23 for	
	how to fulfill this requirement. Course work r	
CHOICE 2:	Accounting	3–4 Credits
ACCG 101	Accounting info for Management	3
ACCG 210	Principles of Accounting I	4
MATH 117	Math for Business	4
MGMT 346	Managerial Finance	Э

CHOICE 3:	Management Related (See Note 2)		9-11 Credits
ACCG 211	Principles of Accounting II		4
BUSN 229	Public Relations		2
BUSN 295	Small Business Management	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	3
ECON 201	Principles of Economics-Micro	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	3
ECON 202	Principles of Economics-Macro		3
LEGL 215	Busn Law I, Basic Principles		3
MGMT 150	Managing Customer Relations	1	3
MGMT 227	Training/Development for Bush		3
MGMT 235	Independent Study/Management		1-3
MGMT 239	Time and Stress Management		3
MGMT 280	Management Internship		3
MGMT 300	Managerial Leadership		3
MKTG 119	Mktg/Manage Your Profess Image		3
MKTG 202	Managerial Marketing		3
	-		

MINIMUM TOTAL

NOTES

- Students completing REQUIREMENTS have fulfilled the requirements for this Core aree.
- Students may also choose a maximum of 2 credits total from the T.I.M.E. Serias (course codes MGM7 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 Careers program advisor to assure that selection of Limited Choice courses will best fit their cereer plans.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reeson 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	BUSN 201	MGMT 225	LABR 204	
CISB 200	MGMT 223	MGMT 228	MGMT 200	i di
LABR 200	MGMT 224	MKTG 200	MGMT 237	
MGMT 234	MGMT 231	SPCH 110	Lim.Ch.	
Lim.Ch.	WRIT 127	Lim.Ch.	Lim.Ch.	

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TOTAL: 8-10 CREDITS

MANAGEMENT CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0249 (Effective Fall 2000-Summer 2005)

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

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INFORMATION

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

REQUIREMENTS		TOTAL: 24 CREDITS
CODE	TITLE	CREDIT HOURS
BUSN 118	Introduction to Business	. 3
CISB 200	Info Sys Tech/Problem Solving	3
LABR 204	Employment Law for Managers	3
MGMT 224	Human Resource Management	3
MGMT 225	Principles of Management	Э
MGMT 228	Organizational Behavior	3
MGMT 231	Team Development	З
MGMT 234	Diversity in the Workplace	3

LIMITED CHOICE REQUIREMENTS TOTAL: 6-7 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: ACCG 101	Accounting Accounting Info for Management	<mark>3⊶4 Credits</mark> 3 4
ACCG 210 MATH 117	Principles of Accounting I Math for Business	4
CHOICE 2: SPCH 110 WRIT 127	Communication Skills Oral Communic in the Workplace Business Writing	3 Credits 3 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 seguence 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	K	
BUSN 118	LABR 204	
CISB 200	MGMT 228	
MGMT 224	MGMT 231	
MGMT 225	MGMT 234	
Lim.Ch.	Lim.Ch.	

SMALL BUSINESS MANAGEMENT CERTIFICATE OF COMPLETION

Curriculum Code: 0903 (Effective Fall 2000-Summer 2005)

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

REQUIREMENTS		TOTAL: 7 CREDITS		
CODE	TITLE	CREDIT HOURS		
BUSN 191	Independent Study/Business	1		
BUSN 295	Small Business Management	3		
MKTG 200	Principles of Marketing	3		

LIMITED CHOICE REQUIREMENTS

Complete the	indicated number of credits from each CHOIC	CE 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	Supervision	3
MGMT 244	Supervisory Management	2
MGMT 254	How to Write a Business Plan	2
CHOICE 3:	Computer Related	2–3 Credits
CABS 110	Microsoft Office	3
CABS 126	Excel	2
CISB 102	Internet Literacy	3
MKTG 210	Marketing on the Internet	2
	MINIMUM TOTAL	15

NOTES

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- 1. 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 plan.
- 2. 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 depertments 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.

1	<u> </u>	
BUSN 295	BUSN 191	
Lim.Ch.1	MKTG 200	
Lim.Ch.2	Lim.Ch.2	
	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 PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE. LANSING COMMUNITY COLLEGE CATALOG 2000-2001 # 133

COMPUTER SALES SPECIALIST **ASSOCIATE IN BUSINESS DEGREE**

Curriculum Code: 0179 (Effective Fall 2000-Summer 2005)

Computer sales representatives sell computers and network hardware and software systems. They analyze a customer's needs and recommend the computer system that best meets the customer's requirements. They emphasize salable features, such as flexibility, cost, capacity, and economy of operation. 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 section of this catalog or the Course Schedule for course prerequisite information, Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REQUIREMENTS CODE TITLE			то	TAL		REDITS
BUSN 118	Introduction to Business					3
CABS 110	Microsoft Office		1.1			.3
CABS 195	Microsoft Windows	23	;			2
CISB 104	Introduction to DOS					1
CISB 107	DOS Menagement					1
CISB 119	Intro Window Prog Visual BASIC					4
CISB 130	Data Communications				-	3
CISB 200	Info Sys Tech/Problem Solving					- 3
CISB 235	Microcomputer Hardware Support					3
MGMT 234	Diversity in the Workplace					. з
MKTG 119	Mktg/Manage Your Profess Image					3
MKTG 120	Sales					3
MKTG 123	Comput Field Sales Internship					Э
MKTG 200	Principles of Marketing					3
MKTG 210	Marketing on the Internet					2
MKTG 221	Consumer Behavior					2
SPCH 110	Oral Communic in the Workplace					Э
WRIT 127	Business Writing					3

LIMITED CHOICE REQUIREMENTS TOTAL: 12-14 CREDITS

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

CHOICE 1:	General Education Core Areas	0 Credits
(See the GEI	VERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area (See Note 1)	. 0
	Science/Technology Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area (See	Note 1) 0
	Mathematics Competency (See page 23 for inform	ation on
	how to fulfill this requirement. Course work may be	needed.)
CHOICE 2:	Computer Related (See Note 2)	4-5 Credits
CHOICE 3:	Business Related (See Note 3)	8-9 Credits
ACCG 210	Principles of Accounting I	4
BUSN 229	Public Relations	2
BUSN 295	Small Business Management	3
ECON 201	Principles of Economics-Micro	3
MGMT 225	Principles of Management	3
MGMT 239	Time and Stress Management	3
MKTG 130	Retailing	3
MKTG 140	Introduction to Advertising	3
MKTG 202	Managerial Marketing	3
MKTG 204	Marketing Research	3
	MINIMUM TOTAL	60

NOTES

- 1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- 2. Choose from CABS-prefix courses of 113 or above and/or CISB-prefix courses not already used to meet degree requirements.
- 3. Students should confer with a Business Careers 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.

I	11	111	IV
BUSN 118	CISB 107	CABS 110	CISB 235
CABS 195	CISB 119	CISB 130	MGMT 234
CISB 104	MKTG 119	MKTG 120	MKTG 123
CISB 200	MKTG 200	MKTG 221	MKTG 210
WRIT 127	SPCH 110	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 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. 134 E LANSING COMMUNITY COLLEGE CATALOG 2000-2001

FIELD SALES AND MARKETING ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0190 (Effective Fall 2000-Summer 2005)

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

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Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REQUIREMENTS		TOTAL: 41 CREDITS
CODE	TITLE	CREDIT HOURS
BUSN 118	Introduction to Business	3
CISB 200	Info Sys Tech/Problem Solving	3
LEGL 215	Busn Law I. Basic Principles	3
MGMT 200	Creative Thinking for 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 122	Field Sales Internship	3
MKTG 200	Principles of Marketing	. 3
MKTG 202	Managerial Marketing	3
MKTG 221	Consumer Behavior	2
SPCH 110	Oral Communic in the Workplace	3
WRIT 127	Business Writing	3
LIMITED CHO	DICE REQUIREMENTS	TOTAL: 19 CREDITS
	indicated number of credits from each CH	OICE listed below.
CHOICE 1:	General Education Core Areas	0 Credits
(See the GEN	IERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	. 0
	Speech Communication Core Area (See	Note 1) 0
	Science/Technology Core Area (See Note	
	Global Perspectives and Diversity Core A	
	Mathematics Competency (See page 23	for information on
	how to fulfill this requirement. Course wo	rk may be needed.)
CHOICE 2:	Sales/Marketing Related (See Note 2)	19 Credits
ACCG 210	Principles of Accounting I	4
ACCG 211	Principles of Accounting II	4
BUSN 201	International Business	3
BUSN 229	Public Relations	2
BUSN 295	Small Business Management	3
CABS 110	Microsoft Office	Э
ECON 201	Principles of Economics-Micro	3
ECON 202	Principles of Economics-Macro	Э
MGMT 150	Managing Customer Relations	3
MGMT 225	Principles of Management	3
MGMT 228	Organizational Behavior	3
MGMT 239	Time and Stress Management	3
MKTG 131	Merchandising	2
MKTG 140	Introduction to Advertising	. 3

			60	
MKTG 235	Marketing Internship	2	3	
MKTG 210	Marketing on the Internet		2	
MKTG 204	Marketing Research		3	

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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 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.

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 200	CISB 200	MKTG 122
MKTG 100	MGMT 234	LEGL 215	MKTG 202
SPCH 110	MKTG 119	MKTG 120	Lim.Ch.
WRIT 127	MKTG 200	 MKTG 221 	Lim.Ch.
Lim.Ch.	Lirn.Ch.	Lim.Ch.	Lim.Ch.

IELD SALES AND MARKETING CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0242 (Effective Fall 2000-Summer 2005)

Certificate holders may improve their opportunities for advancement in this or a related area. Additional education enhances an individual's employment opportunities.

REQUIREMI	TITLE .	TOTAL: 24 CREDITS
BUSN 118	Introduction to Business	3
CABS 110	Microsoft Office	3
MKTG 119	Mktg/Manage Your Profess Image	. 3
MKTG 120	Sales	3
MKTG 122	Field Sales Internship	
MKTG 200	Principles of Marketing	3
SPCH 110	Oral Communic in the Workplace	3
WRIT 127	Business Writing	3

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

	4		
CHOICE 1:	Marketing Related (See	Note 1)	6 Credits
	1.	and the second	. ¹
	MINIMUM TOTAL		30
		1	

NOTE

4. Choose any course with a MKTG prefix not already used to meet certificate 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>			
BUSN 118	CABS 110		•
MKTG 119	MKTG 122	$(x_1, y_2) \in \mathbb{C}^{n+1}$	
MKTG 120	MKTG 200		
WRIT 127	SPCH 110	:	
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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MARKETING ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0204 (Effective Fall 2000-Summer 2005)

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.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

	NTS THLE	TOTAL: 46 CREDITS CREDIT HOURS
BUSN 118	Introduction to Business	3
BUSN 229	Public Relations	2
CABS 110	Microsoft Office	3
CISB 200	Info Sys Tech/Problem Solving	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 221	Consumer Behavior	2
SPCH 110	Oral Communic in the Workplace	3
WRIT 127	Business Writing	3
	DICE REQUIREMENTS indicated number of credits from each C	TOTAL: 14 CREDITS HOICE listed below.
CHOICE 1:	General Education Core Areas	0 Credits
(See the GEI	VERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area (Se	
	Science/Technology Core Area (See N	ote 1) 0
	Global Perspectives and Diversity Core	
	Mathematics Competency (See page 2 how to fulfill this requirement. Course w	
CHOICE 2:	Field Experience	3 Credits
MKTG 122	Field Sales Internship	. 3
MKTG 235	Marketing Internship	0
CHOICE 3:	Marketing Related (See Note 2)	11 Credits
ACCG 210	Principles of Accounting 1	4
BUSN 201	International Business	3
BUSN 254	Introduction to Investments	2
BUSN 295	Small Business Management	3
ECON 201	Principles of Economics-Micro	Э З
ECON 202	Principles of Economics-Macro	3
LEGL 215	Busn Law I, Basic Principles	· 3
MGMT 150	Managing Customer Relations	3
MGMT 200	Creative Thinking for Business	3

MGMT 223	Supervision	3
MGMT 231	Team Development	3
MKTG 131	Merchandising	2
MKTG 210	Marketing on the Internet	5
MKTG 231	Independent Study in Marketing	1-3
	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 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.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions te 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	0	111	IV
BUSN 118	MGMT 234	BUSN 229	CISB 200
CABS 110	MKTG 119	MKTG 120	MKTG 130
MKTG 100	MKTG 200	MKTG 140	MKTG 202
WRIT 127	SPCH 110	MKTG 204	Lim.Ch.
Lim.Ch.	Lim.Ch.	MKTG 221	Lim.Ch.
Linnon		Lim.Ch.	

MARKETING CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0225 (Effective Fall 2000-Summer 2005)

Certificate holders may improve their opportunities for advancement in this or a related area. Additional education enhances an individual's employment opportunities

REQUIREME	ENTS	TOTAL: 24 CREDITS
CODE	TITLE	CREDIT HOURS
BUSN 118	introduction to Business	3
MKTG 119	Mktg/Manage Your Profess Image	3
MKTG 120	Sales	3
MKTG 130	Retailing	3
MKTG 200	Principles of Marketing	3
MKTG 202	Managerial Marketing	3
SPCH 110	Oral Communic in the Workplace	3
WRIT 127	Business Writing	3

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

CHOICE 1:	Marketing Related (See Note 1)	6 Credits
	MINIMUM TOTAL	30

NOTE

1. Choose any course with a MKTG prefix not already used to meet certificate 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	11	 	
BUSN 118	MKTG 120		
MKTG 119	MKTG 130		
MKTG 200	MKTG 202		
WRIT 127	SPCH 110		
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 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. 136 M LANSING COMMUNITY COLLEGE CATALOG 2000-2001

MEDIA TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0184 (Effective Fall 2000-Summer 2005)

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

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GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Media Technology Program, Technology Learning Center, Room 123, telephone number (517) 483-1677.

REQUIREMENTS		TOTAL: 35 CREDITS
CODE	TITLE	CREDIT HOURS
CISB 100	Intro Computer Info Systems (See Note 1)	Э
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 296	Media Internship (See Note 2)	3
SPCH 120	Dynamics of Communication	3
WRIT 121	Composition I	4

LIMITED CHOICE REQUIREMENTS TOTAL: 27-32 CREDITS Complete the indicated number of credits from each CHOICE listed below

CHOICE 1:	General Education Core Areas	6 Credits
(See the GEN	ERAL EDUCATION section above)	
	Writing Core Area (See Note 3)	0
	Speech Communication Core Area (See Note 3) 0
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for info	rmation on
	how to fulfill this requirement. Course work may	be needed.)
CHOICE 2:	Media Specialty (Choose one subchoice)	17–22 Credits
Subchoice 2/		
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	2
0		
Subchoice 2		4
MTEC 230	Radio Production II	. 4
MTEC 231	Radio Programming and Promo	3
MTEC 232	Radio Workshop (See Note 4)	2
MTEC 241	Radio News Reporting	3
MTEC 242	Radio Sales and Marketing	3

Subchoice 2C: Video/Television

Superiore ze	2. VIGEO/TElevision	
MTEC 152	Video Production Techniques	;
MTEC 153	Video Post-Production Technos	;
MTEC 250	TV Production II	
MTEC 251	Advanced Field Production	
MTEC 252	Lighting for Television/Video	
MTEC 254	Electronic Presentat Graphics	
MTEC 255	Video Workshop (See Note 5)	

Subchoice 2D: General Media Occupations (See Note 6)

CHOICE 3:	Media-Related (See Note 7)	ъ.,		4 Credits	
			· · · ·		
	MINIMUM TOTAL			62	

NOTES

- 1. Students having demonstrated computer proficiency should consult their program advisor for alternatives to CISB 100.
- 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 3. Core area.
- 4. MTEC 232 must be taken two times for a total of 4 credits. A Media Technology major may not apply more than four credits in MTEC 232 toward this degree.
- A Media Technology major may not apply more than four credits in MTEC 255 5 toward this degree.
- 6. Credits must be taken from Subchoices 2A, 2B, 2C, and/or departmentally approved MTEC electives or other departmentally approved electives. Students following Subchoice 2D 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.

1	11	HI	IV
MTEC 110	CISB 100	MTEC 240	MTEC 296
MTEC 120	WRIT 121	MTEC 243	SPCH 120
MTEC 130	Lim.Ch.	Lim.Ch.	Lim.Ch.
MTEC 150	Lim.Ch.	Lim,Ch.	Lìm.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 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.

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MEDIA TECHNOLOGY www.lcc.edu

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MOTION PICTURE

2000-2001 Catalog Lansing Community College

MOTION PICTURE DIRECTION ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0900 (Effective Fall 2000-Summer 2005)

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. Entrylevel 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 coursas 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* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REOUIREME	INTS	TOTAL: 28 CREDITS
CODE	TITLE	CREDIT HOURS
ENGL 240	Tha Film as Art	4
FILM 118	Film Production I	4
FILM 226	Film Production II	4
FILM 227	Film Production III	4
FILM 290	Motion Picture Portfolio	
IMAG 111	Intro to Photographic Tech I	4
WHIT 121	Composition I	4
LIMITED CH	OICE REQUIREMENTS	TOTAL: 32 CREDITS
Complete the	e indicated number of credits from each Ch	OICE listed below.
CHOICE 1:	General Education Core Areas	9 Credits
(See the GE	NERAL EDUCATION section above)	67
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area	3
	Science/Technology Core Area	· 3
	Global Perspectives and Diversity Core	Area 3
	Mathematics Competency (See page 23	for information on
	how to fulfill this requirement. Course we	ork may be needed.)
CHOICE 2:	Media Issues and Arts	23 Credits
ARTS 102	2-Dimensional Design	3
AOTC 171	Computer Craphics (Dhotoprophy	2

An10 102	z-Dimensional Design	0
ARTS 171	Computer Graphics/Photography	3
FILM 203	Topics in Film/Animation	3
FILM 281	Motion Picture Internship (See Note 2)	. 3
IMAG 204	Topics in Imaging Self-Express	3
IMAG 207	Imaging Issues	з
IMAG 208	Input Processes	з
MTEC 120	Audio Production I	4
MTEC 152	Video Production Techniques	з
MTEC 153	Video Post-Production Techniques	з
MTEC 243	Ethics/Social Impact of Media	3
STEC 140	Theatrical Make-Up/Wardrobe	. 3
THEA 120	Introduction to Acting	2
WRIT 282	Forum for Authors	3
WRIT 285	Creative Writing I	з
	MINIMUM TOTAL	60

NOTES

- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- 2. Students should try to obtain internship experience, if possible.

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.

ŀ	н.	NI CONTRACTOR	IV.
FILM 118	ENGL 240	FILM 227	FILM 290
IMAG 111	FILM 226	Lim.Ch.	Lim.Ch.
WRIT 121	Lim.Ch.	Lim.Ch.	Lim.Ch.
Lim.Ch.	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 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. 138 ILLANSING COMMUNITY COLLEGE CATALOG 2000-2001

PICTURE

MOTION PICTURE PRODUCTION ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0902 (Effective Fall 2000-Summer 2005)

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REQUIREM	ENTS TITLE	TOTAL: 45 CREDITS CREDIT HOURS
		······
ENGL 240	The Film as Art	4
FILM 11B	Film Production 1	4
FILM 226	Film Production II	4
FILM 227	Film Production []]	4
FILM 290	Motion Picture Portfolio	4
IMAG 111	Intro to Photographic Tech I	4
IMAG 112	Design for Imaging Tech	Э
IMAG 113	Lighting Concepts/Applications	3
IMAG 114	Intro Photographic Color Tech	3
IMAG 117	Intro to Photographic Tech II	4
MTEC 120	Audio Production I	4
WRIT 121	Composition I	4
LIMITED CH	OICE REQUIREMENTS	TOTAL: 15 CREDITS

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

CHOICE 1:	General Education Core Areas	6 Credits		
(See the GENERAL EDUCATION section above)				
	Writing Core Area (See Note 1)	0		
	Speech Communication Core Area	3		
	Science/Technology Core Area (See Note 2)	0		
	Global Perspectives and Diversity Core Area	3		
	Mathematics Competency (See page 23 for informat	іоп оп		
	how to fulfill this requirement. Course work may be n	eeded.)		
CHOICE 2:	Modia Incurs and Technology	0.0		
	Media Issues and Technology	9 Credits		
ARTS 171	Computer Graphics/Photography	3		
ARTS 195	Employ/Busn issues for Artists	1		
ELCT 161	Soldering/Desoldering	1		
ELTE 100	Electrical Safety Practices	1		
FILM 203	Topics in Film/Animation	з		
FILM 281	Motion Picture Internship (See Note 3)	Э		
IMAG 204	Topics in Imaging Self-Express	3		
IMAG 207	Imaging Issues	з		
IMAG 208	Input Processes	3		
IMAG 232	Internship	3		
MTEC 121	Audio Recording I	4		
MTEC 243	Ethics/Social Impact of Media	3		

	MINIMUM TOTAL			60
STEC 140	Theatrical Make-Up/Wardrobe			3
STEC 130	Audio/Visual Technology			3
STEC 120	Stage Lighting and Electricity			3
STEC 100	Intro to Stage Tech Industry			2

NOTES

- 1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- 2. For students completing all requirements for this program (including IMAG 114), the Science/Technology Core Area requirement is waived.
- а Students should try to obtain internship experience, if possible.

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	11	211	IV	
FILM 118 IMAG 111 IMAG 112 IMAG 113	FILM 226 IMAG 114 IMAG 117 WRIT 121 Lim.Ch.	ENGL 240 FILM 227 MTEC 120 Lim.Ch.	FILM 290 Lim.Ch. Lim.Ch. Lim.Ch.	

MOTION PICTURE PRODUCTION CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0901 (Effective Fail 2000-Summer 2005)

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.

REQUIREM	ENTS	TOTAL: 28 CREDITS		
COCE	TITLE	CREDIT HOURS		
ENGL 240	The Film as Art	4		
FILM 118	Film Production I	4		
FILM 226	Film Production II	4		
FILM 227	Film Production III	4		
IMAG 111	Intro to Photographic Tech I	4		
MTEC 120	Audio Production I	4		
WRIT 121	Composition I	4		

LIMITED CHOICE REQUIREMENTS

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

CHOICE 1:	Practical Production	3-4 Credits
FILM 281	Motion Picture Internship: (See Note 1)	3
FILM 290	Motion Picture Portfolio	4
	MINIMUM TQTAL	31

NOTE

1. Students should try to obtain internship experience, if possible.

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	
FILM 118	ENGL 240	MTEC 120	
IMAG 111	FILM 226	Lim.Ch.	
WRIT 121	FILM 227		

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ADMINISTRATIVE ASSISTANT ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0114 (Effective Fall 2000-Summer 2005)

The administrative assistant curriculum provides skills in office procedures, word processing, spreadsheets, database management, electronic mail, and formatting documents. The administrative assistant is generally responsible for coordinating office functions and is characterized by varied skills and flexibility. Specific duties may include activities related to communications, personnel, budget, records management, and computers. Sample job titles include office manager, administrative secretary, and administrative assistant. Employment opportunities can be found in almost every company.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

CABS 133

CABS 182

CABS 219

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

REQUIREME	NTS TQTAL:	45 CREDITS
CODE	Τίτιε	CREDIT HOURS
ACCG 100	Practical Accounting Non-Major	3
CABS 113	Microsoft Word Office/Int Key	4
CABS 118	Adv Microsoft Word for Office	4
CISB 102	Internet Literacy	3
MATH 117	Math for Business	4
OADM 102	Editing Business Documents	2
OADM 195	Human Behavior in Work Place	3
OADM 200	Critical Thinking	3
OADM 215	Records and Info Management I	з
OADM 220	Administrative Office Mgmt	4
OADM 240	Office Internship	3
OADM 275	Cultural Differences in Bush	3
WRIT 114	Business English	3
WRIT 127	Business Writing	3
Complete the	indicated number of credits from each CHOICE listed	d below.
CHOICE 1:	General Education Core Areas	6 Credits
(See the GEN	ERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area (See I Mathematics Competency (See Note 1)	Vote 1) 0
CHOICE 2:	Office Administration Related	5–6 Credits
LEGL 215	Business Law I, Basic Principles	3
OADM 110	Machine Transcription	3
OADM 203	Professional Office Procedures	2
CHOICE 3:	Computer Related	4 Credits
CABS 104	Skillbuilding for Computers	2
CABS 126	Excel	2

Microsoft Access Database

Advanced Microsoft Word

MINIMUM TOTAL

Microsoft PowerPoint/Windows

STUGENTS 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.

2

2

2

60

NOTES

- Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- 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, 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	11	111	IV	
ACCG 100	CABS 118	MATH 117	OADM 220	
CABS 113	CISB 102	OADM 200	OADM 275	
OADM 195	OADM 102	OADM 240	Lim.Ch.1	
OADM 215	WRIT 127	Lim.Ch.1	Lim.Ch.2	
WRIT 114	Lim.Ch.2	Lim.Ch.3	Lim.Ch.3	

LEGAL SECRETARY ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0207 (Effective Fall 2000-Summer 2005)

Legal secretaries are part of a law office team and report to one or more attorneys. Legal secretaries take dictation and are skilled in the use of computers and transcription equipment. They prepare legal papers and correspondence of a legal nature, such as summonses, complaints, motions, and subpoenas. Graduates of this program are prepared to work in law offices, courts, public agencies, and in legal departments of larger businesses and organizations.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

TOTAL: 48 CREDITSDODETITLECREDIT HOURSCABS 113Microsoft Word Office/Int Key4CABS 113Adv Microsoft Word for Office4LEGL 215Busn Law I, Basic Principles3MATH 117Math for Business4OADM 102Editing Business Documents2OADM 103Human Behavior in Work Place3OADM 104Legal Vocabulary and Form Prep3OADM 205Legal Vocabulary and Form Prep3OADM 206Legal Vocabulary and Form Prep3OADM 207Citilical Thinking3OADM 208Legal Vocabulary and Form Prep3OADM 209Administrative Office Mgmt4OADM 200Citilical Internship3OADM 215Records and Info Management I3OADM 220Administrative Office Mgmt4OADM 220Administrative Office Mgmt4OADM 220Cultural Differences in Busn3WRIT 114Business English3WRIT 117Business Writing3LIMITED CHOICE REQUIREMENTSTOTAL: 12–14 CREDITSComplete the indicated number of credits from <i>each</i> CHOICE listed below.CHOICE 1:General Education Core Area3Science/Technology Care Area3Global Perspectives and Diversity Core Area (See Note 1)0Mathematics Competency (See Note 1)0Mathematics Competency (See Note 1)0Mathematics Computers2CHOICE 2:Office Administrat				
CABS 113Microsoft Word Office/Int Key4CABS 118Adv Microsoft Word for Office4LEGL 215Busn Law I, Basic Principles3MATH 117Math for Business Documents2OADM 102Editing Business Documents2OADM 104Editing Business Documents2OADM 105Human Behavior in Work Place3OADM 206Legal Vocabulary and Form Prep3OADM 206Legal Vocabulary and Form Prep3OADM 207Critical Thinking3OADM 208Legal Vocabulary and Form Prep3OADM 209Administrative Office Mgmt4OADM 215Records and Info Management I3OADM 220Administrative Office Mgmt4OADM 240Office Internship3OADM 275Cultural Differences in Busn3WRIT 127Business English3WRIT 127Business Writing3LIMITED CHOICE REQUIREMENTSTOTAL: 12–14 CREDITSComplete the indicated number of credits from each CHOICE listed below.CHOICE 1:General Education Core Areas6 Credits(See the GENERAL EDUCATION section above)Writing Core Area (See Note 1)0Speech Communication Core Area33Science/Technology Care Area33Global Perspectives and Diversity Core Area (See Note 1)0Mathematics Competency (See Note 1)0CHOICE 2:Office Administration Related2–3 CreditsACCG 100Practical Accounting Non-M				
CABS 118Adv Microsoft Word for Office4LEGL 215Busn Law I, Basic Principles3MATH 117Math for Business4OADM 102Editing Business Documents2OADM 110Machine Transcription3OADM 125Human Behavior in Work Place3OADM 206Legal Vocabulary and Form Prep3OADM 207Critical Thinking3OADM 208Legal Vocabulary and Form Prep3OADM 209Administrative Office Mgmt4OADM 215Records and Info Management I3OADM 220Administrative Office Mgmt4OADM 220Administrative Office Mgmt4OADM 220Administrative Office Mgmt3OADM 220Cultural Differences in Busn3WRIT 114Business English3WRIT 127Business Writing3LIMITED CHOICE REQUIREMENTSTOTAL: 12–14 CREDITSComplete the indicated number of credits from each CHOICE listed below.CHOICE 1:General Education Core Areas6 Credits(See the GENERAL EDUCATION section above)Writing Core Area (See Note 1)0Speech Communication Core Area33Global Perspectives and Diversity Core Area (See Note 1)0Mathematics Competency (See Note 1)0CHOICE 2:Office Administration Related2-3 CreditsACCG 100Practical Accounting Non-Major3OADM 203Professional Office Procedures2CABS 104Skilibuilding for Computer	CABS 113	Microsoft Word Office/Int Key		
LEGL 215Busn Law I, Basic Principles3MATH 117Math for Business4OADM 102Editing Business Documents2OADM 110Machine Transcription3OADM 200Critical Thinking3OADM 201Legal Vocabulary and Form Prep3OADM 202Administrative Office Mgmt4OADM 203Administrative Office Mgmt4OADM 204Office Internship3OADM 205Cultural Differences in Busn3OADM 206Critical Thinking3OADM 207Cultural Differences in Busn3WRIT 114Business English3WRIT 127Business Writing3LIMITED CHOICE REQUIREMENTSTOTAL: 12–14 CREDITSComplete the indicated number of credits from each CHOICE listed below.CHOICE 1:General Education Core Areas6 Credits(See the GENERAL EDUCATION section above)Writing Core Area (See Note 1)0Speech Communication Core Area33Global Perspectives and Diversity Core Area (See Note 1)0Mathematics Competency (See Note 1)0CHOICE 2:Office Administration Related2–3 CreditsACCG 100Practical Accounting Non-Major3OADM 203Professional Office Procedures2CABS 126Excel2CABS 126Excel2CABS 126Excel2CABS 126Excel2CABS 120Internet Literacy3MINIMUM TOTAL				4
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OADM 200Critical Thinking9OADM 206Legal Vocabulary and Form Prep3OADM 215Records and Info Management I9OADM 220Administrative Office Mgmt4OADM 220Administrative Office Mgmt4OADM 220Administrative Office Mgmt3OADM 220Administrative Office Mgmt3OADM 220Administrative Office Mgmt3OADM 275Cultural Differences in Busn3WRIT 114Business English3WRIT 127Business Writing3LIMITED CHOICE REQUIREMENTSTOTAL: 12–14 CREDITSComplete the indicated number of credits from each CHOICE listed below.CHOICE 1:General Education Core Areas6 Credits(See the GENERAL EDUCATION section above)Writing Core Area (See Note 1)0Speech Communication Core Area33Science/Technology Core Area33Global Perspectives and Diversity Core Area (See Note 1)0Mathematics Competency (See Note 1)0Mathematics Computers2CHOICE 3:Computer Related4–5 CreditsCABS 104Skillbuilding for Computers2CABS 133Microsoft Access Database2CABS 132Microsoft PowerPoint/Windows2CABS 132Internet Literacy3MINIMUM TOTAL60	OADM 110	Machine Transcription		3
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WRIT 127 Business Writing 3 LIMITED CHOICE REQUIREMENTS TOTAL: 12–14 CREDITS Complete the indicated number of credits from each CHOICE listed below. 6 CHOICE 1: General Education Core Areas 6 (See the GENERAL EDUCATION section above) 0 Writing Core Area (See Note 1) 0 Speech Communication Core Area 3 Science/Technology Core Area 3 Global Perspectives and Diversity Core Area (See Note 1) 0 Mathematics Competency (See Note 1) 0 Mathematics Competency (See Note 1) 0 CHOICE 2: Office Administration Related 23 Credits ACCG 100 Practical Accounting Non-Major 3 OADM 203 Professional Office Procedures 2 CHOICE 3: Computer Related 4-5 Credits CABS 104 Skillbuilding for Computers 2 CABS 133 Microsoft Access Database 2 CABS 142 Microsoft Word 2 CABS 219 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3 MINIMUM TOTAL 60 </td <td>OADM 275</td> <td>Cultural Differences in Bush</td> <td></td> <td>3</td>	OADM 275	Cultural Differences in Bush		3
LIMITED CHOICE REQUIREMENTS TOTAL: 12–14 CREDITS Complete the indicated number of credits from <i>each</i> CHOICE listed below. CHOICE 1: General Education Core Areas 6 Credits (See the GENERAL EDUCATION section above) Writing Core Area (See Note 1) 0 Speech Communication Core Area 3 Science/Technology Core Area 3 Global Perspectives and Diversity Core Area (See Note 1) 0 Mathematics Competency (See Note 1) CHOICE 2: Office Administration Related 2–3 Credits ACCG 100 Practical Accounting Non-Major 3 OADM 203 Professional Office Procedures 2 CHOICE 3: Computer Related 4–5 Credits CABS 104 Skillbuilding for Computers 2 CABS 126 Excel 2 CABS 133 Microsoft Access Database 2 CABS 182 Microsoft PowerPoint/Windows 2 CABS 219 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3 MINIMUM TOTAL 60	WRIT 114	Business English		з
Complete the indicated number of credits from each CHOICE listed below. CHOICE 1: General Education Core Areas 6 Credits (See the GENERAL EDUCATION section above) Writing Core Area (See Note 1) 0 Speech Communication Core Area 3 Science/Technology Core Area 3 Global Perspectives and Diversity Core Area (See Note 1) 0 Mathematics Competency (See Note 1) 0 CHOICE 2: Office Administration Related 23 Credits ACCG 100 Practical Accounting Non-Major 3 OADM 203 Professional Office Procedures 2 CHOICE 3: Computer Related 4-5 Credits CABS 104 Skillbuilding for Computers 2 CABS 126 Excel 2 CABS 126 Microsoft Access Database 2 CABS 129 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3 MINIMUM TOTAL 60	WRIT 127	Business Writing		З
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(See the GENERAL EDUCATION section above) 0 Writing Core Area (See Note 1) 0 Speech Communication Core Area 3 Science/Technology Core Area 3 Global Perspectives and Diversity Core Area (See Note 1) 0 Mathematics Competency (See Note 1) 0 CHOICE 2: Office Administration Related 23 Credits ACCG 100 Practical Accounting Non-Major 3 OADM 203 Professional Office Procedures 2 CHOICE 3: Computer Related 4-5 Credits CABS 104 Skillbuilding for Computers 2 CABS 126 Excel 2 CABS 133 Microsoft Access Database 2 CABS 182 Microsoft PowerPoint/Windows 2 CABS 219 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3 MINIMUM TOTAL 60	CHOICE 1-	General Education Core Areas	E Cror	lite
Writing Core Area (See Note 1) 0 Speech Communication Core Area 3 Science/Technology Core Area 3 Global Perspectives and Diversity Core Area (See Note 1) 0 Mathematics Competency (See Note 1) 0 CHOICE 2: Office Administration Related 23 Credits ACCG 100 Practical Accounting Non-Major 3 OADM 203 Professional Office Procedures 2 CHOICE 3: Computer Related 4-5 Credits CABS 104 Skilibuilding for Computers 2 CABS 126 Excel 2 CABS 133 Microsoft Access Database 2 CABS 182 Microsoft PowerPoint/Windows 2 CABS 219 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3 MINIMUM TOTAL 60 10			0 0100	111.5
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Science/Technology Core Area 3 Global Perspectives and Diversity Core Area (See Note 1) 0 Mathematics Competency (See Note 1) 0 CHOICE 2: Office Administration Related 23 Credits ACCG 100 Practical Accounting Non-Major 3 OADM 203 Professional Office Procedures 2 CHOICE 3: Computer Related 4-5 Credits CABS 104 Skilibuilding for Computers 2 CABS 104 Skilibuilding for Computers 2 CABS 126 Excel 2 CABS 133 Microsoft Access Database 2 CABS 219 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3 MINIMUM TOTAL 60		3		
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Mathematics Competency (See Note 1) CHOICE 2: Office Administration Related 23 Credits ACCG 100 Practical Accounting Non-Major 3 OADM 203 Professional Office Procedures 2 CHOICE 3: Computer Related 4-5 Credits CABS 104 Skillbuilding for Computers 2 CABS 126 Excel 2 CABS 133 Microsoft Access Database 2 CABS 182 Microsoft PowerPoint/Windows 2 CABS 219 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3 MINIMUM TOTAL 60			See Note 11	_
ACCG 100 Practical Accounting Non-Major 3 OADM 203 Professional Office Procedures 2 CHOICE 3: Computer Related 4–5 Credits CABS 104 Skillbuilding for Computers 2 CABS 126 Excel 2 CABS 133 Microsoft Access Database 2 CABS 162 Microsoft PowerPoint/Windows 2 CABS 219 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3 MINIMUM TOTAL 60			500 11010 17	0
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OADM 203 Professional Office Procedures 2 CHOICE 3: Computer Related 4–5 Credits CABS 104 Skillbuilding for Computers 2 CABS 126 Excel 2 CABS 133 Microsoft Access Database 2 CABS 182 Microsoft PowerPoint/Windows 2 CABS 219 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3	ACCG 100	Practical Accounting Non-Major		3
CABS 104 Skillbuilding for Computers 2 CABS 126 Excel 2 CABS 133 Microsoft Access Database 2 CABS 182 Microsoft PowerPoint/Windows 2 CABS 219 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3	OADM 203	Professional Office Procedures		2
CABS 104 Skillbuilding for Computers 2 CABS 126 Excel 2 CABS 133 Microsoft Access Database 2 CABS 182 Microsoft PowerPoint/Windows 2 CABS 219 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3	CHOICE 3:	Computer Related	4–5 Crec	lits
CABS 126 Excel 2 CABS 133 Microsoft Access Database 2 CABS 132 Microsoft PowerPoint/Windows 2 CABS 219 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3	CABS 104	•		2
CABS 182 Microsoft PowerPoint/Windows 2 CABS 219 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3 MINIMUM TOTAL 60				_
CABS 182 Microsoft PowerPoint/Windows 2 CABS 219 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3 MINIMUM TOTAL 60		Microsoft Access Database		_
CABS 219 Advanced Microsoft Word 2 CISB 102 Internet Literacy 3 MINIMUM TOTAL 60	-			_
MINIMUM TOTAL 60	CABS 219			
	CISB 102	Internet Literacy		3
NOTES		MINIMUM TOTAL		60
	NOTES			

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

 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, or CABS 195.

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 FRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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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			IV	
CABS 113	CABS 118	OADM 200	MATH 117	
OADM 110	LEGL 215	OADM 215	OADM 220	
OADM 206	OADM 102	OADM 240	OADM 275	
WRIT 114	OADM 195	WRIT 127	Lim.Ch.1	
Lim.Ch.3	Lim.Ch.1	Lim.Ch.2	Lim.Ch.3	

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MEDICAL ADMIN ASSISTANT ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0185 (Effective Fall 2000-Summer 2005)

The medical administrative assistant is a specialist in the healthcare profession, the second-largest industry in the nation. The need for medical administrative assistants is expected to expand at a tremendous rate due in part to increased specialization in medical treatments and to technological advances in the diagnosis and treatment of diseases. 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 medical appointments and procedures, and arranging patient hospitalizations. Job opportunities are readily available in hospitals, medical centers, medical clinics, insurance companies, managed care organizations, and other private and public sector healthcare 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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

	NTS TITLE	TOTAL: 58.5 CREDITS
ACCG 100	Practical Accounting Non-Major	3
ANAT 145	Introductory Anat & Physiology	4
CABS 113	Microsoft Word Office/ Int Key	4
CABS 118	Adv Microsoft Word for Office	4
CHSE 121	Medical Term Allied Health I	2.5
CHSE 123	Medical Insurance Billing I	3
CHSE 124	Medical Insurance Billing II	3
HUMS 265	Sem:Ethical Issues in Medicine	3
MATH 117	Math for Business	4
OADM 102	Editing Business Documents	2
OADM 197	Medical Vocabulary	Э
OADM 198	Health Information Management	. 3
OADM 207	Medical Transcription	3
OADM 220	Administrative Office Mgmt	4
OADM 222	Advanced Medical Transcription	4
OADM 275	Cultural Differences in Busn	з
WRIT 114	Business English	3
WRIT 127	Business Writing	3
	OICE REQUIREMENTS Indicated number of credits from each CH	TOTAL: 6 CREDITS IOICE listed below.
CHOICE 1:	General Education Core Areas	6 Credits
(See the GEI	NERAL EDUCATION section above)	0
	Writing Core Area (See Note 1) Speech Communication Core Area	3
	Speech Communication Core Area Science/Technology Core Area	3
	Global Perspectives and Diversity Core	-
	Mathematics Competency (See Note 1)	
	MINIMUM TOTAL	64.5

NOTES

- 1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- 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, or CABS 195.

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.

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	10	1V	
ACCG 100	CABS 118	CHSE 123	CHSE 124	
ANAT 145	CHSE 121	HUMS 265	MATH 117	
CABS 113	OADM 198	OADM 207	OADM 102	
OADM 197	OADM 220	WRIT 127	OADM 222	
OADM 275	WRIT 114	Lim.Ch.1	Lim.Ch.1	

MEDICAL TRANSCRIPTIONIST ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0756 (Effective Fall 2000-Summer 2005)

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, therapeutio procedures, clinical course, diagnosis, and prognosis. The medical transcriptionist can choose from a variety of employment options including hospitals, medical centers, medical clinics, insurance companies, managed care organizations, medical transcription services, and home office settings. Medical transcription is designated as one of the ten start-up businesses for the future. The employment outflook for medical growth. 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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information, Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

CABS 219

CISB 102

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

REQUIREME	NTS TITLE	TOTAL: 49 CREDITS CREDIT HOURS
ANAT 145	Introductory Anat & Physiology	4
CABS 113	Microsoft Word Office/ Int Key	4
CABS 118	Adv Microsoft Word for Office	4
CHSE 123	Medical Insurance Billing	3
HUMS 265	Sem:Ethical Issues in Medicine	3
MATH 117	Math for Business	4
OADM 102	Editing Business Documents	` 2
OADM 197	Medical Vocabulary	3
OADM 198	Health Information Management	3
OADM 207	Medical Transcription	3
OADM 222	Advanced Medical Transcription	4
OADM 240	Office Internship	3
OADM 275	Cultural Differences in Bush	3
WRIT 114	Business English	3
WRIT 127	Business Writing	3

LIMITED CHOICE REQUIREMENTS TOTAL: 13–14 CREDITS

Advanced Microsoft Word

Internet Literacy

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

CHOICE 1:	General Education Core Areas	6 Credits		
(See the GENERAL EDUCATION section above)				
	Writing Core Area (See Note 1)	0		
	Speech Communication Core Area	Э		
	Science/Technology Core Area	3		
	Global Perspectives and Diversity Core Area (See	Note 1) 0		
	Mathematics Competency (See Note 1)			
CHOICE 2:	Computer Related	4-5 Credits		
CABS 104	Skillbuilding for Computers	2		
CABS 110	Microsoft Office	3		
CABS 126	Excel	. 2		
CABS 133	Microsoft Access Database	2		

CHOICE 3:	Business Related (See Note 3)	3 Credits
ACCG 100	Practical Accounting Non-Major	3
BUSN 118	Introduction to Business	3
MGMT 225	Principles of Management	3
MKTG 200	Principles of Marketing	3

MINIMUM TOTAL

NOTES

- 1. Students completing *REQUIREMENTS* have fulfilled the requirements for these Core areas.
- 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, or CABS 195.
- Students may also choose a maximum of two credits total from the T.I.M.E. Series (course codes MGMT 240 through MGMT 279).

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 aoademic advisor or counselor for help with adjustments.

11	H	111	IV	
ANAT 145	CABS 118	CHSE 123	HUMS 265	
CABS 113	OADM 102	OADM 207	MATH 117	
OADM 197	OADM 198	OADM 275	OADM 222	
WRIT 114	Lim.Ch.1	WRIT 127	OADM 240	
Lim.Ch.2	Lim.Ch.2	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 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.

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OFFICE CAREERS

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OFFICE CAREERS

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OFFICE ASSISTANT **CERTIFICATE OF COMPLETION**

Curriculum Code: 0789 (Effective Fall 2000-Summer 2005)

Students completing this program are prepared for entry-level positions in an office. Training is focused on basic computer skills, editing documents, general office procedures, and internet usage. Additional training will enhance an individual's employment and advancement opportunities.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

REQUIREMENTS		TOTAL: 14 CREDITS
CODE	TITLE	CREDIT HOURS
CABS 110	Microsoft Office	3
CABS 113	Microsoft Word Office/Int Key	4
CISB 102	Internet Literacy	Э
OADM 102	Editing Business Documents	2
OADM 203 Professional Office Procedures		2
	MINIMUM TOTAL	14

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 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.

ł	
CABS 110	
CABS 113	
CISB 102	
OADM 102	
OADM 203	

OFFICE SPECIALIST: COMP APPS CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0924 (Effective Fall 2000-Summer 2005)

An office specialist is skilled in the use of word processing, database, spreadsheet, and graphics software. Responsibilities include office procedures, business document preparation, proofreading, records management, and internet usage, Additional training will enhance an individual's employment and advancement opportunities.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

REQUIREMENTS CODE TITLE		Total: 32 Credits CREDIT HOURS
ACCG 100	Practical Accounting Non-Major	3
CABS 113	Microsoft Word Office/Int Key	4
CABS 126	Excel	2
CABS 133	Microsoft Access Database	2
CABS 182	Microsoft PowerPoint/Windows	2
CISB 102	Internet Literacy	3
OADM 102	Editing Business Documents	2
OADM 195	Human Behavior in Work Place	3
OADM 203	Professional Office Procedures	2
OADM 215	Records and info Management I	3
OADM 240	Office Internship	- 3
WBIT 114	Business English	3

MINIMUM TOTAL 32

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, 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	31	
ACCG 100	CABS 126	
CABS 113	CABS 133	
CABS 182	CISB 102	
OADM 195	OADM 102	
OADM 203	OADM 215	
WRIT 114	OADM 240	

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL REQUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTED BY THE RÉGISTRAR'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. 144 🖩 LANSING COMMUNITY COLLEGE CATALOG 2000-2001

RECORDS MANAGEMENT ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0195 (Effective Fall 2000-Summer 2005)

Records and information management specialists account for and control an organization's information records. They record, store, and retrieve information and data such as correspondence, invoices, receipts, and other database files using various manual and computerized data storage, retrieval, and filing systems. Graduates of this program are prepared to work in both government and business sectors. 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* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

DEOURDEME		
REQUIREME		TOTAL: 44 CREDITS
CODE	TITLE	CREDIT HOURS
CABS 113	Microsoft Word Office/ Int Key	4
CABS 133	Microsoft Access Database	2
LEGL 215	Busn Law I, Basic Principles	3
MATH 117	Math for Business	4
DADM 102	Editing Business Documents	2
DADM 195	Human Behavior in Work Place	,3
DADM 200	Critical Thinking	3
DADM 215	Records and Info Management I	3
DADM 216	Records and Info Management II	. 4
DADM 220	Administrative Office Mgmt	. 4
DADM 240	Office Internship	3
DADM 275	Cultural Differences in Busn	• 3
NRIT 114	Business English	3
VRIT 127	Business Writing	3
	OICE REQUIREMENTS	TOTAL: 16-18 CREDITS
	indicated number of credits from each C	
CHOICE 1:	General Education Core Areas	6 Credits
(See the GEI	NERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core	
	Mathematics Competency (See Note 1)	
CHOICE 2:	Office Administration Related	5–6 Credits
ACCG 100	Practical Accounting for Non-Major	3
3USN 118	Introduction to Business	
		. 3
	Principles of Management	
/GMT 225	Principles of Management Professional Office Procedures	3 3 2
MGMT 225 DADM 203	Professional Office Procedures	3 2
AGMT 225 DADM 203	Professional Office Procedures Computer Related	3 2 5–6 Credits
AGMT 225 DADM 203 CHOICE 3: CABS 110	Professional Office Procedures Computer Related Microsoft Office	3 2 5–6 Credits 3-
AGMT 225 DADM 203 CHOICE 3: DABS 110 CABS 126	Professional Office Procedures Computer Related Microsoft Office Excel	3 2 5–6 Credits 3 2
MGMT 225 DADM 203 CHOICE 3: CABS 110 CABS 126 CABS 182	Professional Office Procedures Computer Related Microsoft Office Excel Microsoft Powerpoint/Windows	3 2 5–6 Credits 3. 2 2
AGMT 225 DADM 203 CHOICE 3: CABS 110 CABS 126	Professional Office Procedures Computer Related Microsoft Office Excel	3 2 5–6 Credits 3 2

NOTES

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

OFFICE CAREERS

www.lcc.edu

 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, 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.

<u> </u>	11	111	IV
CABS 113	CABS 133	LEGL 215	MATH 117
OADM 195	OADM 102	OADM 200	OADM 275
OADM 215	OADM 216	OADM 240	Lim.Ch.1
WRIT 114	OADM 220	WRIT 127	Lim.Ch.2
Lim.Ch.1	Lim.Ch.3	Lim.Ch.2	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 PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0118 (Effective Fall 2000-Summer 2005)

This degree program provides solid technique and performance training for both the transfer and the career student. Because public performance is a critical element of a dancer's training, the program provides a wide variety of performance opportunities for its students including fully produced formal concerts, video dance production, lecture demonstrations, and informal performances. Student must pass jury proficiency exam and submit a research paper prior to graduation. For information regarding the jury, please contact Dance Lead Faculty at 483-1018. The Dance Career option prepares students to work in such jobs as performer, teacher, and dance studio owner. 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

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Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education raquirements, see page 23.

INFORMATION

Contact the Humanities and Performing Arts Department, Arts and Sciences Building, Room 225, telephone number (517) 483-1018.

REQUIREMENTS		TOTAL: 31 CREDITS
CODE	TITLE	CREDIT HOURS
DANC 125	Dance Improvisation	2
DANC 126	Choreography	3
DANC 191	Dance History	3
DANC 193	Dance Anatomy	3
HUMS 120	Western Art and Music History	4
MUSC 199	Music Appreciation	2
SOCL 120	Introduction to Sociology	4
SPCH 120	Dynamics of Communication	3
THEA 110	Introduction to Theatre	. 3
WRIT 121	Composition I	4

LIMITED CHOICE REQUIREMENTS (See Notes 1 and 2) TOTAL: 37–37.5 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	General Education Core Areas	3 Credits
(See the GEN	IERAL EDUCATION section above)	0
	Writing Core Area (See Note 3)	0
	Speech Communication Cora Area (See Note 3)	3
	Science/Technology Core Area	-
<u></u>	Global Perspectives and Diversity Core Area (See	
	Mathematics Competency (See page 23 for inform	
	how to fulfill this requirement. Course work may b	e neeueu.)
CHOICE 2:	Career OR Transfer (Choose one subchoice) 34	4–34.5 Credits
	A: Career Requirements	34.5 Credits
	Ballet Technique Classes (See Note 4)	10
	Modern Technique Classes (See Note 5)	10
	Related Professional Technique Classes (See No	<i>te 6)</i> 10
	Repertory/Performance Classes (See Notes 7 an	
Subchoice 2	B: Transfer Requirements	34 Credits
00000000	Ballet Technique Classes (See Note 4)	8
	Modern Technique Classes (See Note 5)	8
	Related Professional Technique Classes (See No	te 6) 6
1. A.	Repertory/Performance Classes (See Notes 7 an	
	English Composition	4
	Social Science	4
		68

NOTES

- Specific dance technique courses must be selected with the guidance of a dance program advisor. Technique courses can be repeated for credit until proficiency is achieved.
- Those students who plan on attending a school in Michigan should include an additional four-credit course in: (1) Science or Mathematics and (2) Social Science or Humanities to complete all general education requirements. See Transfer Information.
- Students completing REQUIREMENTS have fulfilled the requirements for these Core areas.
- 4. Choose from DANC courses numbered 101, 111, 201, 211, or 244 (one choice must be 201 or 211.)
- Choose from DANC courses numbered 102, 112, 202, or 212 (one choice must be 202 or 212.)
- 6. Choose from DANC courses numbered (104, 114 or 204) and (103, 113, 203, 132, 134, 203, or 204.)
- Repertory/Performance courses may be repeated for credit. Video Dance Repertory may be repeated a maximum of two (2) times for credit.
- 8. Choose from DANC courses numbered 161 through 165.

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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DANC 125	HUMS 120	DANC 126	Lim. Ch. 1	
DANC 193	MUSC 199	DANC 191	Lim. Ch. 2	
THEA 110	SOCL 120	SPCH 120		
WRIT 121	Lim, Ch. 2	Lim. Ch. 2		1
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 OF CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

TITLE ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0270 (Effective Fall 2000-Summer 2005)

The Music Program enables students to transfer to a four-year institution after completing studies in music theory, plano and applied lessons. In addition to academic music classes, the curriculum includes training in a private 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.

PREREQUISITES

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Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

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 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.
- 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.
- Audition. The actual audition day will consist of a live performance on in-C strument 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 REOUIREMENTS TOTAL: 45 CREDITS CODE TITU CREDIT HOURS **ENGL 122** Writing: Literature and Ideas MUSC 138 Class Piano Major I MUSC 139 Class Piano Major II MUSC 163 Aural Skills I **MUSC 164** Aural Skills II **MUSC 193** Basic Musicianship I MUSC 194 Basic Musicianship II MUSC 240 World Music History I MUSC 241 World Music History II MUSC 263 Aural Skills III MUSC 264 Aural Skills IV MUSC 293 Advanced Musicianship I MUSC 294 Advanced Musicianship II MUSC 297 Synthesizers and Computer Music **POLS 120** American Political System SPCH 120 Dynamics of Communication

WRIT 121 Composition I LIMITED CHOICE REQUIREMENTS (See Note 1) TOTAL: 18-20 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	Géneral Education Core Areas	6 Credits
(See the GEN	IERAL EDUCATION section above)	0
	Writing Core Area (See Note 2)	0
	Speech Communication Core Area (See Note 2)	0
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for inform	
	how to fulfill this requirement. Course work may be	e needed.)
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
		-
CHOICE 3:	Ensembles and Voice (Choose one subchoice)	4–6 Credits
Subchoice 3.	A: Voice Requirements (See Note 3)	
MUSC 108	Concert Choir	1
MUSC 179	Class Voice Major I (See Note 4)	1
MUSC 180	Class Voice Major II (See Note 4)	1
	, , , ,	
Subchoice 3	B: Instrumental Requirements (See Note 3)	
MUSC 119	Lansing Concert Band	1
MUSC 121	Percussion Ensemble	. 1
MUSC 123	Jazz Ensemble	1
	MINIMUM TOTAL	- 63

NOTES

- 1. It is strongly recommended that students intending to transfer to 4-year institutions should meet additional course requirements as outlined in the MACRAO Transfer Agreement (see Transfer Information). Students should also consult appropriate Curriculum Guides for transfer to specific 4-year programs (available from advisors.)
- Students completing REQUIREMENTS have fulfilled the requirements for 2 these Core areas.
- Course may be repeated and MUST be taken each semester student is enз. rolled as a major.
- Course required only of Voice Majors, and must be taken in addition to 4 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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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	POLS 120	Lim. Ch. 1	
Lim. Ch. 1	MUSC 297	SPCH 120	Lim. Ch. 2	
Lim. Ch. 2	Lim. Ch. 2	Lim, Ch. 2	Lim. Ch. 3	
Lim. Ch. 3	Lim. Ch. 3	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 DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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PERFORMING ARTS www.lcc.edu

CHOICE 1:

MUSIC: COMMERCIAL ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0274 (Effective Fall 2000–Summer 2005)

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 training in a private 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 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.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page-23.

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. 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: COMMERCIAL PROGRAM REQUIREMENTS

Curriculum Code: 0274

REQUIREME CODE	ENTS	TOTAL: 35 CREDITS OREDIT HOURS
MTEC 120	Audio Production I	4
MTEC 121	Audio Recording I	4
MUSC 138	Class Plano Major I	2
MUSC 155	Class Voice Commercial I	2
MUSC 163	Aural Skills I	1
MUSC 164	Aural Skills II	1
MUSC 193	Basic Musicianship I	3
MUSC 194	Basic Musicianship II	3
MUSC 253	Business of Music	3
MUSC 254	Band Management	2
MUSC 263	Aural Skills III	1
MUSC 264	Aural Skills IV	1
MUSC 293	Advanced Musicianship	3
MUSC 294	Advanced Musicianship II	3
MUSC 297	Synthesizers & Computer Music	2
LIMITED CH	OICE REQUIREMENTS	TOTAL: 34 CREDITS
Complete the	e indicated number of credits from each	CHOICE listed below.

(See the GENERAL EDUCATION section above) Writing Core Area 3 Speech Communication Core Area 3 Science/Technology Core Area 3 **Global Perspectives and Diversity Core Area** Э Mathematics Competency (See page 23 for information on how to fulfill this requirement. Course work may be needed.) CHOICE 2: History 4 Credits MUSC 240 World Music History I 4 MUSC 241 World Music History II 4 MUSC 242 American Musical Theater 2 MUSC 246 History of Blues and Jazz 2 MUSC 247 History of Rock and Roll 2 CHOICE 3: Applied Skills 1-2 Credits **MUSC 139** Class Piano Major II 2 MUSC 156 Class Voice Commercial II 2 MUSC 232 Music Seminar 1 MUSC 270 Rock Guitar I 1 CHOICE 4: Private Lessons Commercial (See Note 1) 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 Ensembles and Voice (Choose one subchoice) CHOICE 5: 4 Credits Subchoice 5A: Voice Requirements (See Note 1) MUSC 108 Concert Choir Subchoice 5B: Instrumental Requirements (See Note 1) MUSC 119 Lansing Concert Band MUSC 121 Percussion Ensemble MUSC 123 Jazz Ensemble 1 CHOICE 6: Media Technology (See Note 2) A Credite **MTEC 122** Sound Reinforcement 4 MTEC 130 Radio Production I 4 Audio Production II MTEC 220 4 MTEC 221 Audio Recording II 4 CI

General Education Core Areas

CHOICE 7:	Performing Arts Electives	1-2 Credits
MUSC 276	Lyric Writing	2
MUSC 280	Private Songwriting	1
THEA 120	Introduction to Acting	2
	Dance Classes (See Note 3)	12
	MINIMUM TOTAL	69

NOTES

- Courses may be repeated and must be taken each semester student is enrolled as a major.
- Other Media Technology (MTEC) courses may be substituted with department approval.
- 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.

1	R	181	IV
MTEC 120	MTEC 121	MUSC 253	MUSC 254
MUSC 138	MUSC 164	MUSC 263	MUSC 264
MUSC 155	MUSC 194	MUSC 293	MUSC 294
MUSC 163	MUSC 297	Lim. Ch. 1	Lim. Ch. 1
MUSC 193	Lim, Ch. 1	Lim, Ch. 2	Lim. Ch. 4
Lim. Ch. 1	Lim. Ch. 2	Lim. Ch. 4	Lim. Ch. 5
Lim. Ch. 4	Lim. Ch. 3	Lim. Ch. 5	Lim. Ch. 6
Lim, Ch. 5	Lim, Ch. 4	Lim. Ch. 7	
	Lim. Ch. 5		

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12 Credits

MUSIC: MANAGEMENT ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0861 (Effective Fall 2000-Summer 2005)

-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 training in a private 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.

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GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

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. b. 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: MANAGEMENT PROGRAM REQUIREMENTS

Curriculum Code: 0861			
	NTS TITLE	TOTAL: 52 CREDITS CREDIT HOURS	
ACCG 210	Principles of Accounting I	4	
ACCG 211	Principles of Accounting II	4	
BUSN 118	Introduction to Business	3	
MATH 112	Intermediate Algebra	· 4	
MGMT 234	Diversity in the Workplace	3	
MTEC 120	Audio Production I	4	
MTEC 121	Audio Recording I	4	
MUSC 163	Aural Skills I	1	
MUSC 164	Aural Skills II	1	
MUSC 193	Basic Musicianship I	з	
MUSC 194	Basic Musicianship II	3	
MUSC 240	World Music History I	4	
MUSC 241	World Music History II	4	
MUSC 253	Business of Music	3	
MUSC 254	Band Management	2	
MUSC 297	Synthesizers & Computer Music	2	
WRIT 127	Business Writing	3	

LIMITED CHOICE REQUIREMENTS

TOTAL: 18-19 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1:	General Education Core Areas Writing Core Area (See Note 1) Speech Communication Core Area Science/Technology Core Area Global Perspectives and Diversity Core Area (See Mathematics Competency (See page 23 for inform how to fulfill this requirement. Course work may be	nation on
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: Subchoice 3	Ensembles and Voice (Choose one subchoice) A: Vocal Requirements (See Note 2)	4 Credits
MUSC 101	Lanswingers Vocal Ensemble	1
MUSC 102	Women's Chorus	1
MUSC 103	Men's Ensemble	. 1
MUSC 108	Concert Choir	1
Subchoice 3	B: Instrumental Requirements (See Note 2)	
MUSC 119	Lansing Concert Band	. 1
MUSC 121	Percussion Ensemble	1
MUSC 123	Jazz Ensemble	1
	MINIMUM TOTAL	70

NOTES

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

1	11	н	IV	
BUSN 118	MUSC 164	ACCG 210	ACCG 211	
MATH 112	MUSC 194	MGMT 234	MTEC 121	
MUSC 163	MUSC 253	MTEC 120	MUSC 241	
MUSC 193	Lim, Ch. 1	MUSC 240	MUSC 254	
WRIT 127	Lim. Ch. 1	Lim. Ch. 2	MUSC 297	
Lim, Ch. 2	Lim. Ch. 2	Lim, Ch. 3	. Lim. Ch. 2	
Lim. Ch. 3	Lim, Ch. 3		Lim. Ch. 3	

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THEATHE ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0278 (Effective Fall 2000-Summer 2005)

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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Humanities and Performing Arts Department, Arts and Sciences Building, Room 255, telephone number (517) 483-1018.

CODE TITLE		TOTAL: 62 CREDITS CREDIT HOURS
DANC 103	Jazz I	2
ENGL 122	Writing: Literature and Ideas	4
MUSC 182	Class Voice I	1
POLS 120	American Political System	. 4
SPCH 120	Dynamics of Communication	3
THEA 110	Introduction to Theatre	3
THEA 111	Basic Stagecraft	. 2
THEA 116	Scene Design I	. 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 142	Acting II - Classics	2.5
THEA 171	Dramatic Form and Function I	з
THEA 172	Dramatic Form and Function II	3
THEA 181	Improvisation	2.5
THEA 210	Theatre History	4
THEA 233	Studio Theatre Performance III	1
THEA 235	Studio Theatre Performance V	2
THEA 241	Acting III: Creating Theatre	2.5
THEA 251	Stage Voice for the Actor	3
THEA 261	Movement for the Actor	2
THEA 271	Dramatic Form and Function III	3
THEA 281	Advanced Improvisation II	1
WRIT 121	Composition I	4

LIMITED CHOICE REQUIREMENTS (See Note 2) TOTAL: 8 CREDITS Complete the indicated number of credits from *each* CHOICE listed below.

CHOICE 1:	General Education Core Areas	4 Credits
(See the GEN	ERAL EDUCATION section above)	
	Writing Core Area (See Note 3)	0
	Speech Communication Core Area (See Note 3)	0
	Science/Technology Core Area (See Note 4)	4
	Global Perspectives and Diversity Core Area (See Note	<i>e 5)</i> 0
	Mathematics Competency (See page 23 for information how to fulfill this requirement. Course work may be nee	

CHOICE 2:	Humanities	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

MINIMUM TOTAL

NOTES

- 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.
- Those students who plan on attending a four-year school in Michigan should include an additional 4-credit course in: 1) Science or Mathematics and 2) Social Science or Humanities to complete all general education requirements.
- Students completing REQUIREMENTS have fulfilled the requirements for this Cora erea.
- 4. ASTR 201 or BIOL 210 is recommended.
- 5. Students completing *Limited Choice 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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MUSC 182	DANC 103	THEA 181	SPCH 120
THEA 110	ENGL 122	THEA 210	THEA 235
THEA 120	POLS 120	THEA 233	THEA 241
THEA 131	THEA 111	THEA 251	THEA 271
THEA 141	THEA 116	THEA 261	THEA 281
THEA 171	THEA 132	Lim. Ch. 2	
WRIT 121	THEA 142		
	THEA 172		

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. 150 # LANSING COMMUNITY COLLEGE CATALOG 2000-2001

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PHOTOGRAPHIC IMAGING ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0277 (Effective Fall 2000-Summer 2005)

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 digital-based imaging equipment and software. A "photographer" may be selfemployed, be a member of a small team, or be employed by a large company.

PREREQUISITES

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Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Photographic Imaging Technology Program, Photography Center, Room 117, telephone number (517) 483-1673.

REQUIREME	ENTS TITLE	TOTAL: 42 CREDITS CREDIT MOURS	
ARTS 171	Computer Graphics/Photography	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	4	
IMAG 119	Intermediate Lighting	4	
IMAG 210	Intermediate Color Ap and Tech	3	
IMAG 211	Advanced Color Appl and Tech	4	
IMAG 220	Intermed Still Imaging Tech	4	
IMAG 221	Advanced Still Imaging Tech	. 4	
IMAG 234	Portfolio Assembly/Degree Comp (See Not	e 1) 3	
LIMITED CHOICE REQUIREMENTS TOTAL: 18 CREDITS Complete the indicated number of credits from <i>each</i> CHOICE listed below.			

CHOICE 1:	General Education Core Areas	9 Credits
(See the GEI	VERAL EDUCATION section above)	
	Writing Core Area	3
	Speech Communication Core Area	3
	Science/Technology Core Area (See Note 2)	0
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for inform	ation on
	how to fulfill this requirement. Course work may be	needed.)
CHOICE 2-	Business	3 Credits

CHORE E.	Duaineaa	0.0.0010
BUSN 118	Introduction to Business	3
IMAG 233	The Business of Photography	Э

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PHOTOGRAPHIC IMAGING

CHOICE 3:	Special Interest	6 Credits
ARTS 228	Advanced Digital Imaging	. "h. 3
FILM 118	Film Production I	4
FILM 203	Topics in Film/Animation	3
FILM 226	Film Production #	4
FILM 227	Film Production III	
IMAG 201	Topics Commercial Photography	3
IMAG 202	Topics in Photo Communication	
IMAG 204	Topics in Imaging Self-Express	No. 2010 - 3
IMAG 205	Topics in Hybrid Imaging	3
IMAG 206	End Technologies	
IMAG 207	Imaging Issues	3
IMAG 208	Input Processes	3 A 3
IMAG 228	Independent Study	· · · · · 3
IMAG 229	Advanced Imaging Applications	1
IMAG 238	Project Lab Independent Study	· · · · · · · · · 3
IMAG 240	Internship	4
·	MINIMUM TOTAL	60

MINIMUM TOTAL

NOTES

- 1. The Portfolio is considered to be the final course in this curriculum. All imaging and non-photo courses must be completed or be taken concurrently with IMAG 234.
- For students completing all requirements for this program (including IMAG 114), the Science/Technology Core Area requirement is waived.
- Students completing this curriculum have the option of doing so through a two-3 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 4. in 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.

E	B	III .	IV .	
IMAG 111	IMAG 114	ARTS 171	IMAG 211	
IMAG 112	IMAG 117	IMAG 210	IMAG 221	
IMAG 113	IMAG 119	IMAG 220	IMAG 234	
Lim.Ch.1	Lim.Ch.1	Lim.Ch.3	Lim.Ch.2	
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 PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE.

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QUALITY ASSURANCE ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0206 (Effective Fall 2000-Summer 2005)

Quality assurance is an established field utilizing the application of management principles, problem solving, planning and statistical techniques to produce high quality products or services. The quality assurance program offers students the opportunity to develop skills required for a career in quality with an emphasis in technical quality areas. Students will study areas such as probability and statistics, control charts, problem solving, metrology, quality improvement teams, quality planning and systems management, cost of quality, sampling, reliability, applied statistics and experimental design. This program provides excellent proparation for students to pursue certification through the American Society for Quality Control (ASQC) as a Certified Quality Technician, Certified Quality Engineer.

PREREOUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336,

REQUIREMENTS		TOTAL: 47 CREDITS CREDIT HOURS
QUAL 100	Intro Quality Assurance	4
QUAL 103	Probability/Stats Qual Assur	4
QUAL 104	Process Control Charting	3
QUAL 107	Problem-Solving Techniques	3
QUAL 115	Metrology	4
QUAL 200	Quality Improvement Teams	4
QUAL 203	Quality Systems Management	4
QUAL 205	Cost of Quality	3
QUAL 209	Reliability	3
QUAL 212	Applied Stats/Qual Assur	4
QUAL 215	Experimental Design in QA	4
QUAL 239	Qual Plan/Project Management	4
QUAL 242	Quality Auditing	Э

LIMITED CHOICE REQUIREMENTS TOTAL: 21–24 CREDITS

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

CHOICE 1:	General Education Core Areas	12 Credits
(See the GEI	VERAL EDUCATION section above)	
	Writing Core Area	з
	Speech Communication Core Area	Э
	Science/Technology Core Area	з
	Global Perspectives and Diversity Core Area	з
	Mathematics Competency (See page 23 for inform	ation on
	how to fulfill this requirement. Course work may be	needed.)
CHOICE 2:	Additional Quality Assurance/Technology Courses	9-12 Credits
CNCP 101	PC Applications for Technology	3
DTDS 100	CAD/Drafting Concepts	. 4
DTDS 110	Industrial Blueprint Reading	з
MACH 100	Manufacturing Processes	4
QUAL 121	Intro Statistical Process Cont	З
QUAL 124	Quality Service/Customer Satis	3
QUAL 135	Measure/Gage Geom Tolerances	3
QUAL 224	Supervisory Skills for Quality	3
QUAL 251	Current Qual Assur Topics	1
QUAL 252	Current QA Topics II	. 2
	MINIMUM TOTAL	68

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>	h	111	1V
QUAL 100	QUAL 104	QUAL 115	QUAL 209
QUAL 103	QUAL 203	QUAL 200	QUAL 215
QUAL 107	Lim.Ch.	QUAL 205	QUAL 239
Lim.Ch.	Lim.Ch.	QUAL 212	QUAL 242
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 REGISTRAR'S OFFICE THAT IS INFLATED WHEN STUDENTS APPLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIOR TO THE SEMESTER THEY INTEND TO GRADUATE. 152 ILLANSING COMMUNITY COLLEGE CATALOG 2000-2001

QUALITY MANAGEMENT ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0246 (Effective Fall 2000-Summer 2005)

Quality management is an area of study which focuses on the managerial principles and statistical techniques that are necessary to continuously improve organizational effectiveness and ensure the delivery of high quality products and services. The quality management program offers students the opportunity to develop skills required for a career in quality with an emphasis in management areas. Students will study arees such as accounting, general business, international business, organizational development, probability and statistics, control charts, problem solving, quality improvement teams, quality planning and systems management, cost of quality, applied statistics and experimental design. This program provides excellent preparation for students to pursue certification through the American Society for Quality Control (ASQC) as a Certified Quality Technician or Manager.

PREREQUISITES

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Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gampon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREME	INTS	TOTAL: 41 CREDITS	
CODE	TITLE	CREDIT HOURS	
ACCG 101	Accounting Info for Management	3	
QUAL 100	Intro Quality Assurance	4	
QUAL 103	Probability/Stats Qual Assur	4	
QUAL 104	Process Control Charting	3	
QUAL 107	Problem-Solving Techniques	3	
QUAL 124	Quality Service/Customer Satis	3	
QUAL 200	Quality Improvement Teams	4	
QUAL 203	Quality Systems Management	4	
QUAL 205	Cost of Quality	3	
QUAL 212	Applied Stats/Qual Assur	4	
QUAL 224	Supervisory Skills for Quality	3	
QUAL 242	Quality Auditing	3	
LIMITED CH	OICE REQUIREMENTS	TOTAL: 22 CREDITS	
Complete the	indicated number of credits from each CHOI	CE listed below.	
CHOICE 1:	General Education Core Areas	12 Credits	
(See the GEI	VERAL EDUCATION section above)		
•	Writing Core Area	3	
	Speech Communication Core Area	3	
	Science/Technology Core Area	3	
	Global Perspectives and Diversity Core Are	a 3	
	Mathematics Competency (See page 23 for information on		

CHOICE 2:	Additional Related Courses	10 Credits
QUAL 115	Metrology	4
QUAL 121	Intro Statistical Process Cont	3
QUAL 124	Quality Service/Customer Satis	3
QUAL 209	Reliability	3
QUAL 224	Supervisory Skills for Quality	. 3
QUAL 239	Qual Plan/Project Management	4
QUAL 251	Current Qual Assur Topics	1
QUAL 252	Current QA Topics II	2

how to fulfill this requirement. Course work may be needed.)

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	}		IV
ACCG 101	QUAL 104	QUAL 200	QUAL 205
QUAL 100	QUAL 107	QUAL 212	Lim.Ch.
QÜAL 103	QUAL 203	QUAL 242	Lim.Ch.
QUAL 124	QUAL 224	Lim.Ch.	Lim.Ch.
Lim.Ch.	Lim.Ch.	Lim.Ch.	

QUALITY TECHNICIAN CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0899 (Effective Fall 2000-Summer 2005)

The quality technician is a paraprofessional who supports quality engineers and the manufacturing production function. Tasks of the quality technician include measuring, testing, and other evaluations of production; preparing quality plans and instructions; analyzing measurement systems; maintaining a program of certification and calibration for measurement devices; collecting and analyzing quality data; solving problems; and training inspectors and process operators. This program provides students with training and skills for an entry-level position in quality assurance with emphasis on technical areas of quality.

REQUIREME	NTS	TOTAL: 31 CREDITS
CODE	TITLE	CREDIT HOURS
DTDS 100	CAD/Drafting Concepts	4
DTDS 110	Industrial Blueprint Reading	
QUAL 100	Intro Quality Assurance	4
QUAL 103	Probability/Stats Qual Assur	4
QUAL 104	Process Control Charting	. 3
QUAL 107	Problem-Solving Techniques	3
QUAL 115	Metrology	4
QUAL 135	Measure/Gage Geom Tolerances	3
QUAL 242	Quality Auditing	ε · · · · · · 3
LIMITED CHO		TOTAL: 5-12 CREDITS
Complete the	indicated number of credits from each	CHOICE listed below.
CHOICE 1:	Related Technical Courses	5-8 Credits
CNCP 101	PC Applications for Technology	3
MACH 100	Manufacturing Processes	4
MACH 135	Metallurgy and Heat Treat	4
QUAL 200	Quality Improvement Teams	4
QUAL 203	Quality Systems Management	4
QUAL 205	Cost of Quality	3
QUAL 224	Supervisory Skills for Quality	· 3
QUAL 251	Current Qual Assur Topics	1
QUAL 252	Current QA Topics II	. 2
CHOICE 2:	Mathematics (See Note 1)	0-4 Credits
MATH 112	Intermediate Algebra	4
MATH 115	Technical Math II	4
	MINIMUM TOTAL	
NOTES		

 Students may waive the mathematics requirement by passing the MATH 112 Proficiency Examination with the equivalent of a 2.0 grade or higher. This exam is administered free of charge in the Learning Center, Room 309, Arts and Sciences Building.

2. Students should confer with a 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.

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QUALITY ASSURANCE

SUPERVISION, MANUFACTURING Associate in Applied science degree

Curriculum Code: 0897 (Effective Fall 2000-Summer 2005)

A supervisor in the manufacturing industry is responsible to management and works to direct and facilitate production workers. Required skills include a technical expertise of manufacturing processes and materials, planning and organizational skills, interpersonal skills, an understanding of how organizations function, special requirements of the organization such as ISO and QS-9000, and a knowledge of systems to achieve a quality output. Many supervisors in manufacturing start their career in an entry-level manufacturing position in which they have acquired specific technical skills, then are promoted to a supervisory position and have a need for supervisory skills development. This curriculum provides a foundation of basic course work in supervision along with choices that allow the student to customize their program of study to fit the industry in which they 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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREME	NTS	TOTAL: 46 CREDITS
CODE	TITLE	CREDIT HOURS
BUSN 118	Introduction to Business	3
EMTA 100	Medical First Responder	4
LABR 200	Intro to Labor Relations	3
MACH 100	Manufacturing Processes	4
QUAL 100	Intro Quality Assurance	4
QUAL 103	Probability/Stats Qual Assur	4
QUAL 121	Intro Statistical Process Cont	3
QUAL 124	Quality Service/Customer Satis	3
QUAL 200	Quality Improvement Teams	4
QUAL 203	Quality Systems Management	4
QUAL 224	Supervisory Skills for Quality	3
QUAL 239	Qual Plan/Project Management	4
WRIT 124	Technical Writing	3
LIMITED CH	DICE REQUIREMENTS TO	TAL: 21-25 CREDITS
Complete the	indicated number of credits from each CHC	NCE listed below.
CHOICE 1:	General Education Core Areas	9 Credits
(See the GEI	VERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area	. 3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Ar	rea 3
	Mathematics Competency (See page 23 i	or information on
	how to fulfill this requirement. Course wor	k may be needed.)
CHOICE 2:	Related Technical Courses (See Note 2)	6–6 Credits
GNGP 101	PC Applications for Technology	3
CNCP 130	Machine Controls and Setup	4
COQP 210	Cooperative Education (Tech)	. 3
DTDS 100	CAD/Drafting Concepts	4
DTDS 110	Industrial Blueprint Reading	3
ELTE 100	Electrical Safety Practices	1
ELTE 110	Practical Electricity	3
MACH 105	Machine Tool Survey	3
MACH 135	Metallurgy and Heat Treat	4
	Metanolgy and rear near	7
MACH 140	Tooling Theory and Practices	4

CHOICE 3:	Business & Manufacturing Systems (See Note 2)	6-8 Credits
ACCG 101	Accounting Info for Management	3
MGMT 227	Training/Development for Busn	3
QUAL 242	Quality Auditing	3
QUAL 251	Current Qual Assur Topics	1
QUAL 252	Current QA Topics II	2
	MINIMUM TOTAL	67

NOTES

- Students completing REQUIREMENTS have fulfilled the requirements for this 1 Core area.
- Students should confer with a program advisor to assure that selection of Lim-2 ited 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.

F	3I	112	IV
EMTA 100	BUSN 118	LABR 200	QUAL 203
MACH 100	QUAL 103	QUAL 124	QUAL 239
QUAL 100	QUAL 121	QUAL 200	Lim.Ch.
WRIT 124	QUAL 224	Lim.Ch.	Lim.Ch.
Lim.Ch.	Lim.Ch.	Lim.Ch.	Lim.Ch.

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SUPERVISION, MANUFACTURING CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0898 (Effective Fall 2000-Summer 2005)

This program is designed for individuals seeking training for entry-level supervisory positions within the manufacturing industry. The courses required in this certificate program will also satisfy a portion of the Supervision, Manufacturing associate degree program, allowing students to continue their education and training.

PREREQUISITES

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Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 31 CREDITS
CODE	TITLE	CREDIT HOURS
BUSN 118	Introduction to Business	3
EMTA 100	Medical First Responder	4
LABR 200	Intro to Labor Relations	3
MACH 100	Manufacturing Processes	4
QUAL 100	Intro Quality Assurance	4
QUAL 121	Intro Statistical Process Cont	3
QUAL 200	Quality Improvement Teams	4
QUAL 224	Supervisory Skills for Quality	3
WRIT 124	Technical Writing	3
LIMITED CH	OICE REQUIREMENTS	TOTAL: 9-10 CREDITS
Complete the	indicated number of credits from each (CHOICE listed below.
CHOICE 1:	Business and Technical Courses	9-10 Credits
ACCG 101	Accounting Info for Management	3
CNCP 130	Machine Controls and Setup	4
COOP 210	Cooperative Education (Tech)	3
DTDS 100	CAD/Drafting Concepts	4
DTDS 110	Industrial Blueprint Reading	3
ELTE 100	Electrical Safety Practices	1
ELTE 110	Practical Electricity	3
MACH 105	Machine Tool Survey	3
MACH 135	Metallurgy and Heat Treat	. 4
MACH 140	Tooling Theory and Practices	4
MGMT 227	Training/Development for Busn	. 3
OUAL 251	Current Qual Assur Topics	1
QUAL ¹ 252	Current QA Topics II	2
	MINIMUM TOTAL	40

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	<u> </u>		
MACH 100	BUSN 118	LABR 200	
QUAL 100	EMTA 100	QUAL 200	
QUAL 224	QUAL 121	Lim.Ch.	
WRIT 124	Lim.Ch.	Lim.Ch.	

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QUALITY ASSURANCE

REAL ESTATE ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0130 (Effective Fall 2000-Summer 2005)

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 referrals; 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.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REQUIREME	INTS	TOTAL: 39 CREDITS
CODE	TITLE	CREDIT HOURS
CISB 200	Info Sys Tech/Problem Solving	Э
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
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	3
SPCH 110	Oral Communic in the Workplace	3
WRIT 127	Business Writing	3
LIMITED CH		TOTAL: 21-23 CREDITS
	indicated number of credits from each (CHOICE listed below.
CHOICE 1:	General Education Core Areas	0 Credits
(See the GEN	ERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area (S	ee Note 1) 0
	Science/Technology Core Area (See N	Vote 1) 0
	Global Perspectives and Diversity Cor	e Area (See Note 1) 0
	Mathematics Competency (See page .	
	how to fulfill this requirement. Course	work may be needed.)
CHOICE 2:	Accounting	3-4 Credits
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)	14 Credits
ARCH 100	Introduction to Architecture	Э
BLDT 100	Introduction to Construction	Э
BUSN 118	Introduction to Business	3
BUSN 229	Public Relations	2
BUSN 295	Small Business Management	3
CIVL 120	Surveying	4
ECON 201	Principles of Economics-Micro	Э
ECON 202	Principles of Economics-Macro	3
LEGL 217	Busn Law III, Busn Organiza	3
LEGL 221	Real Estate Transaction	3
MATH 117	Math for Business	4
MGMT 225	Principles of Management	3

MGMT 228 MGMT 239 MKTG 140	Organizational Behavior Time and Stress Management Introduction to Advertising	3 3 3
MKTG 210 REAL 271	Marketing on the Internet Introduction to Real Estate	2
CHOICE 4:	Computer Related (See Note 3)	4-5 Credits
	MINIMUM TOTAL	60

NOTES

- 1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area
- 2 Students should confer with a Business Careers program advisor to assure that selection of Limited Choice courses will best fit their career plans.
- 3. 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	Н	111	IV
MKTG 119	MKTG 120	MKTG 200	CISB 200
REAL 274	REAL 275	REAL 273	MGMT 234
SPCH 110	REAL 280	REAL 279	REAL 277
WRIT 127	Lim.Ch.	Lim.Ch.	Lim.Ch,
Lím.Ch.	Lim.Ch.	Lim.Ch.	Lim.Ch.

REAL ESTATE **CERTIFICATE OF COMPLETION**

Curriculum Code: 0148 (Effective Fall 2000-Summer 2005)

Certificate holders may improve their opportunities for advancement in this or a related area. Additional education enhances an individual's employment opportunities

REQUIREMENTS CODE TITLE		TOTAL: 15 CREDITS CREDIT HOURS
MKTG 120	Sales	3
REAL 273	Real Estate Investment	. 3
REAL 275	Real Estate Financing	. 3
REAL 279	Residential Appraisal	. 3
REAL 280	Real Estate Law	3

LIMITED CHOICE REQUIREMENTS

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

TOTAL: 5-6 CREDITS

CHOICE 1:	Real Estate Basics	5–6 Credits
MKTG 119	Mktg/Manage Your Profess Image	3
REAL 271	Introduction to Real Estate	2
REAL 274	Real Estate License Exam	3
REAL 277	Property Management	3
	MINIMUM TOTAL	20

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	
MKTG 120	REAL 275	
REAL 273	REAL 280	
REAL 279	Lim.Ch.	
Lim.Ch.		

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CHEMICAL PROCESS TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0859 (Effective Fall 2000-Summer 2005)

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 batch 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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Science Department, Arts and Sciences Building, Room 408, telephone number (517) 483-1092.

REOUIREMS	INTS	TOTAL: 38 CREDITS CREDIT 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 182	Introductory Organic Chemistry	3
CHEM 192	Intro Organic Chemistry Lab	1
ENVR 131	Industrial Process & Pollut. Prevention	3
FIRE 220	Hazardous Materials/Fire Ser	4
MFGM 101	Industrial Hydraulics	4
PHYS 200	Applied Physics	4
SQCL 120	Introduction to Sociology	4
SPCH 110	Oral Communic in the Workplace	3
WRIT 124	Technical Writing	3
	OICE REQUIREMENTS e indicated number of credits from each C	TOTAL: 10-11 CREDITS HOICE listed below.

CHOICE 1:	General Education Core Areas IERAL EDUCATION section aboye)	0 Credits
1000 100 0120	Writing Core Area (See Note 1)	0
	Speech Communication Core Area (See Note 1)	0
	Science/Technology Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area (See Mathematics Competency (See page 23 for inform how to fulfill this requirement. Course work may be	ation on
CHOICE 2;	Mathematics (Choose one subchoice)	7-8 Credits
Subchoice 2.	A:	
MATH 112	Intermediate Algebra	4
QUAL 103	Probability/Stats Quat Assur	4
Subchoice 2	B:	
MATH 121	College Algebra I	. 4
STAT 170	Introduction to Statistics	3
CHOICE 3:	Computer Science	3 Credits
CNCP 101	PC Applications for Technology	3
CPSC 120	Introduction to Computers	3

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SCIENCE - APPLIED

ELECTIVES Students mus	TOTAL take at least 13 credits of electives. The following are	: 13 CREDITS recommended:
ENVR 121	Environmental Rules and Regs	3
ENVR 122	Enviro Sampl & Instrumentation	3
ELTE 100	Electrical Safety Practices	1
ELTE 110	Practical Electricity	. 3
MACH 135	Metallurgy and Heat Treat	: 4
MFGM 102	Industrial Pneumatics	3
SCIN 287	Internship in Science Technolo	4
CHEM 262	Quantative Analysis	3
		61

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 counsalor for help with adjustments.

i	II.	ni -	IV	
CHEM 151	CHEM 152	ENVR 131	CHEM 182	
CHEM 161	CHEM 162	MFGM 101	CHEM 192	÷
WRIT 124	FIRE 220	Lim. Ch. 2	PHYS 200	-
Lim, Ch. 2	SOCL 120	Elective	Elective	· .
Lim. Ch. 3	SPCH 110		Elective	
	Elective		+	

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. LANSING COMMUNITY COLLEGE CATALOG 2000-2001 # 157

CHEMICAL PROCESS TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0860 (Effective Fall 2000-Summer 2005)

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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Science Department, Arts and Sciences Building, Room 408, telephone number (517) 483-1092.

REQUIREME	NTS TITLE	TOTAL: 23 CREDITS CREDIT HOURS
CHEM 125	Basic Chemistry	4
CHEM 161	General Chemistry Lab I	1
CHEM 182	Introductory Organic Chemistry	. 3
CHEM 192	Intro Organic Chemistry Lab	1
PHYS 200	Applied Physics	4
QUAL 100	Intro Quality Assurance	. 4
SPCH 110	Oral Communic in the Workplace	. 3
WRIT 124	Technical Writing	3
LIMITED CHOICE REQUIREMENTS TOTAL: 10–11 CREDITS Complete the indicated number of credits from each CHOICE listed below.		
CHOICE 1:	Computer Science	3 Credits
CNCP 101	PC Applications for Technology	3
CPSC 120	Introduction to Computers	3

-		
CHOICE 2:	Mathematics (Choose one subchoice)	7-8 Credits
Subchoice 2	A:	
MATH 112	Intermediate Algebra	4
QUAL 103	Probability/Stats Oual Assur	4
Subchoice 2	B:	
MATH 121	College Algebra I	4
STAT 170	Introduction to Statistics	3
		33-34

NOTE

1. A minimum grade of 2.0 is required in MATH 112, PHYS 200, and in either CHEM 125 or 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.

1	ll	
CHEM 125	CHEM 182	
CHEM 161	CHEM 192	
QUAL 100	PHYS 200	
Lim. Ch. 1	SPCH 110	
Lim. Ch. 2	WRIT 124	
	Lim. Ch. 2	

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www.lcc.edu

CHEMICAL TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0163 (Effective Fall 2000-Summer 2005)

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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Science Department, Arts and Sciences Building, Room 408, telephone number (517) 483-1092.

	NTS TITLE	TOTAL: 55 CREDITS CREDIT 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 251	Organic Chemistry Lecture 1	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
FIRE 220	Hazardous Materials/Fire Ser	4
MATH 126	College Algebra and Trig	5
PHYS 201	Introductory Physics I	4
SOCL 120	Introduction to Sociology	4
SPCH 120	Dynamics of Communication	3
STAT 170	Introduction to Statistics	Э
WRIT 121	Composition I	4
WRIT 122	Composition II	4

LIMITED CHOICE REQUIREMENTS TOTAL: 10–12 CREDITS Complete the indicated number of credits from *each* CHOICE listed below.

CHOICE 1: (See the GEN	General Education Core Areas (See Note 1) IERAL EDUCATION section above)	0 Credits
,	Writing Core Area	0
	Speech Communication Core Area	0
	Science/Technology Core Area	0
	Global Perspectives and Diversity Core Area	0
	Mathematics Competency	
CHOICE 2:	Science Electives	10-12 Credits
BIOL 127	Cell Biology	4
ENVR 121	Environmental Rules and Regs	3
ENVR 122	Enviro Sampl & Instrumentation	4
ENVR 131	Indust Process & Pollut Preven	3
MICR 203	Microbiology	3
PHYS 202	Introductory Physics II	4
PHYS 225	Physics I Laboratory	<u>`1</u>
PHYS 226	Physics II Laboratory	1
SCIN 287	Internship in Science Technolo	4
	MINIMUM TOTAL	65

NOTE

1. Students completing *REQUIREMENTS* have fulfilled the requirements for these Core areas.

STUDENTS ARE RESPONSIBLE FOR COMPLETING ALL RECUIREMENTS AS STATED. THE ONLY OFFICIAL DOCUMENTATION OF PROGRAM COMPLETION STATUS IS AN AUDIT CONDUCTEO 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 2000-2001 # 159

www.lcc.edu

SCIENCE - APPLIED

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	ŧI	III.	IV
CHEM 151	CHEM 152	CHEM 251	CHEM 252
CHEM 161	CHEM 162	CHEM 262	CHEM 272
MATH 126	CPSC 120	PHYS 201	FIRE 220
SPCH 120	STAT 170	SOCL 120	Lim. Ch. 2
WRIT 121	WRIT 122	Lim. Ch. 2	Lim. Ch. 2

ENVIRONMENTAL TECHNOLOGY Associate in applied science degree

Curriculum Code: 0793 (Effective Fall 2000-Summer 2005)

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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Science Department, Arts and Sciences Building, Room 408, telephone number (517) 483-1092.

	INTS TOTA	L: 44 CREDITS
BIOL 210	Natural Resource Conservation	CREDIT HOURS
CHEM 151		4
CHEM 161	General Chemistry Lecture I	4
CHEM 181	General Chemistry Lab I	1
CHEM 192	Introductory Organic Chemistry	3
CPSC 120	Intro Organic Chemistry Lab Introduction to Computers	1
ENVR 121	•	3
ENVR 121	Environmental Rules and Regs Enviro Sampi & Instrumentation	3
ENVR 122	Indust Process & Pollut Preven	4
FIRE 220	Hazardous Materials/Fire Ser	3
MATH 121	College Algebra I	4
SPCH 120		4
STAT 170	Dynamics of Communication Introduction to Statistics	3
WRIT 121	Composition I	3
	Composition	4
	DICE REQUIREMENTS TOTAL: 2 indicated number of credits from each CHOICE II.	21-24 CREDITS sted below.
CHOICE 1:	General Education Core Areas	3-4 Credits
(See the GER		
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area (See Note 1)	
	Science/Technology Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area (Se Mathematics Competency (See Note 1)	e Note 2) 3-4
CHOICE 2:	Environmentally Related Courses	18-20 Credits
CIVL 135	Soils Technology	3
GEOL 230	Environmental Geology	4
GRET 203	Beginning MicroStation	3
GRET 220	Hydrological Systems	3
GRET 255	Beginning ARC/Info	З
POLS 120	American Political System	4
SCIN 287	Internship in Science Technolo	4
		65

NOTES

- 1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- Students who plan to transfer to a 4 year institution should choose a 4 credit course in order to help meet the MACRAO 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>i</u>	B	1\$1	IV
BIOL 210	CHEM 182	ENVR 122	ENVR 121
CHEM 151	CHEM 192	STAT 170	ENVR 131
CHEM 161	CPSC 120	Lim, Ch. 1	SPCH 120
MATH 121	FIRE 220	Lim. Ch. 2	Lim. Ch. 2
WAIT 121	Lim. Ch. 2		Lim. Ch. 2
Lim. Ch. 2			

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SCIENCE - APPLIED

11 Credits

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2000-2001 Catalog Lansing Community College

HISTOLOGIC TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0923 (Effective Fall 2000-Summer 2002)

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. Histologic Technicians must be certified by the American Society of Clinical Pathologists (ASCP). This curriculum is intended for students who have been admitted to the joint LCC/Capital Area Career Center Histologic Technology Program.

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

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	ENTS	Total: 35 Credits
CODE	TITLE	CREDIT HOURS
ANAT 201	Human Anatomy	4
BIOL 127	Cell Biology	4
CHEM 151	General Chemistry Lecture I	4
CHEM 161	General Chemistry Lab I	1
CPSC 120	Introduction to Computers	3
MATH 112	Intermediate Algebra	4
SCIS 297	Independent Study in Science	4
SOCL 120	Introduction to Sociology	4
SPCH 120	Dynamics of Communication	З
WRIT 121	Composition I	4
Completion of	of the accredited Capital Area Career Center	
Histologic Te	chnology Program	16 Credits
Certification	by the ASCP (see Note 1)	
LIMITED CH	OICE REQUIREMENTS	Total: 11 Credits
Complete the	e indicated number of credits from each CHOICE	Elisted below.
CHOICE 1:	General Education Core Areas (see Note 2)	0 Credits
(See the GE	NERAL EDUCATION section above)	
-	Writing Core Area	0
	Speech Communication Core Area	0
	Science/Technology Core Area	0

Global Perspectives and Diversity Core Area

Mathematics Competency

CHOICE 2: Electives College Algebra I Microbiology Microbiology Laboratory

MATH 121 4 MICR 203 Э 1 **PHGY 202** Human Physiology 4 Internship in Science Technology 4 Introduction to Statistics з **WRIT 122** Composition II 4 62

MINIMUM TOTAL

NOTES

MICE 204

SCIN 287

STAT 170

1. The specific histologic technique courses necessery 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.

1	li	HI	١٧	
SCIS 297	BIOL 127	ANAT 201	Lim. Ch.	
	MATH 112	CHEM 151	Lim. Ch.	
	SPCH 120	CHEM 161	Lim. Ch,	
	WRIT 121	CPSC 120	-	
		SOCL 120		

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MOLECULAR BIOTECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0212 (Effective Fall 2000-Summer 2005)

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 diseese-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. Visit the biotechnology web site for further program details: www.lansing.cc. mi.us/science/molecbio

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Science Department, Arts and Sciences Building, Room 408, telephone number (517) 483-1092.

	ENTS	TOTAL: 50 CREDITS CREDIT HOURS
BIOL 127	Cell Biology	4
BIOL 275	Molecular Biology I (See Note 3)	4
BIOL 276	Molecular Biology II	4
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 251	Organic Chemistry Lecture I	4
CHEM 252	Organic Chemistry Lecture II	4
CHEM 272	Organic Chemistry Laboratory	2
MICR 203	Microbiology	Э
MICR 204	Microbiology Laboratory	1
SOCL 120	Introduction to Sociology	4
SPCH 120	Dynamics of Communication	3
WRIT 121	Composition I	4
WRIT 122	Composition II	4

LIMITED CHOICE REQUIREMENTS TOTAL: 20-21 CREDITS

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

CHOICE 1: (See the GEN	General Education Core Areas	0 Credits
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area (See Note 1)	0
	Science/Technology Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area (See	
	Mathematics Competency (See page 23 for inform	
	how to fulfill this requirement. Course work may be	needed.)
CHOICE 2;	Humanities (See Note 2)	8 Credits
CHOICE 9:	Social Science (See Note 2)	4 Credits
CHOICE 4: MATH 121	Mathematics College Algebra I	4-5 Credits
MATH 126	College Algebra and Trig	4
	5 5 S	•

CHOICE 5:	Science Elective	4 Credits
BIOL 128	Organismal Biology	4
SCIN 287	Internship in Science Technolo	4
	MINIMUM TOTAL	70

MINIMUM TOTAL

NOTES

- 1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area
- 2. See the MACRAO Transfer Agreement in the "Transfer Information" section of this catalog for appropriate Humanities and Social Science courses.
- Students are strongly urged to complete BIOL 127 and CHEM 161 before enrolling in BIOL 275.

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
BIOL 127	CHEM 152	BIOL 275	BIOL 276
CHEM 151	CHEM 162	CHEM 251	CHEM 252
CHEM 161	WRIT 121	MICR 203	CHEM 272
SPCH 120	Lim. Ch. 2	MICR 204	SOCL 120
Lim. Ch. 4	Lim. Ch. 3	WRIT 122	Lim. Ch. 5
		Lim, Ch. 2	

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SCIENCE - APPLIED

www.lcc.edu

2000-2001 Catalog Lansing Community College

VETERINARY TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0287 (Effective Fall 2000-Summer 2005)

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. This curriculum is intended for students who have been admitted to the joint LCC/MSU Veterinary Technology Program. Admission is by application only.

PREREQUISITES

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Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

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.

REQUIREMENTS CODE TITLE		TOTAL: 16 CRE	
CHEM 151	General Chemistry Lecture I		4
CHEM 161	General Chemistry Lab I		1
MICR 203	Microbiology		3
MICR 204	Microbiology Laboratory		1
SPCH 120	Dynamics of Communication		Э
WRIT 121	Composition I		4

TOTAL: 46-47 CREDITS LIMITED CHOICE REQUIREMENTS

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

CHOICE 1:	General Education Core Areas	3 Credits
(Dee life out	Writing Core Area (See Note 1)	0
	Speech Communication Core Area (See Note 1)	0
	Science/Technology Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See Note 3)	
CHOICE 2:	Math Requirement	4–5 Credits
MATH 121	College Algebra I	4
MATH 126	College Algebra and Trig	5
CHOICE 3:	MSU Veterinary Medicine Courses Required Veterinary Medicine courses taken at Michigan State University <i>(See Note 2)</i>	39 Credits
	MINIMUM TOTAL	62

NOTES

- Students completing REQUIREMENTS have fulfilled the requirements for this 1. Core area.
- 2 The specific Veterinary Medicine courses necessary to fulfill this requirement are: VM 200, VM 201, VM 300, VM 301, VM 302, VM 303, VM 304. These courses must be taken at Michigan State University.
- 3. Students completing Limited Choice 2 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.

1	31	
CHEM 151	MICR 203	
CHEM 161	MICB 204	
SPCH 120	Lim. Ch. 1	
WRIT 121		
Lim. Ch. 2		

SIGN LANGUAGE INTERPRETER ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0282 (Effective Fail 2000-Summer 2005)

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 the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Human, Health and Public Service Careers Department, Gannon Vocational-Technical Center, Room 175, telephone number (517) 483-1410.

	ENTS	TOTAL: 53 CREDITS CREDIT HOURS
SIGN 160	Orientation to Deafness	······································
SIGN 161	· · · · · · · · · · · · · · · · · · ·	2 3
	American Sign Language I	
SIGN 162	American Sign Language II	3
SIGN 163	American Sign Language III	. 3
SIGN 164	American Sign Language IV	3
SIGN 166	Fingerspelling	2
SIGN 167	Beginning Sign to Voice	3
SIGN 168	Expressive Manual Commun	. 2
SIGN 170	Creative Arts Signing	2
SIGN 176	Advanced Fingerspelling	2
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	
SIGN 295	Indepen Study/Sign Language	.3
LIMITED CH	OICE REQUIREMENTS	TOTAL: 12 CREDITS
Complete the	e indicated number of credits from each CH	

CHOICE 1: (See the GE	General Education Core Areas (See Note 2) NERAL EDUCATION section above)	12 Credits
,	Writing Core Area	3
	Speech Communication Core Area	. 3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for inform how to fulfill this requirement. Course work may be	
	MINIMUM TOTAL	65
NOTEO		

NOTES

 An interpreter screening is required after the successful completion of SIGN 163 and SIGN 167 and prior to registering for SIGN 261.

Students completing REQUIREMENTS 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.

1	31	5 11 - 2	IV	1.6
SIGN 160	SIGN 162	SIGN 163	SIGN 164	
SIGN 161	SIGN 166	SIGN 167	SIGN 261	
Lim.Ch.1	Lim.Ch.1	SIGN 168		
Lim.Ch.1	Lim.Ch,1	SIGN 170		
1. A.		SIGN 176		
V	VI	VII		
SIGN 250	SIGN 262	SIGN 260		
SIGN 263	- SIGN 264	SIGN 265		
SIGN 267	SIGN 268			
	SIGN 295			

SIGN LANGUAGE INTERPRETER CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0187 (Effective Fall 2000-Summer 2005)

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.

REQUIREME	NTS TITLE	TOTAL: 34 CREDITS
SIGN 160	Orientation to Deafness	2
SIGN 161	American Sign Language I	
SIGN 162	American Sign Language II	73
SIGN 163	American Sign Language III	3
SIGN 164	American Sign Language IV	3
SIGN 166	Fingerspelling	2
SIGN 167	Beginning Sign to Voice	3
SIGN 261	Principles of Interpreting (See Note 1)	× 3
SIGN 262	Mock Quality Assurance (OA)	3
SIGN 263	Intermediate Sign to Voice	3
SIGN 267	Sign Internship I	3
SIGN 268	Sign Internship II	3
LIMITED CHO	DICE REQUIREMENTS	TOTAL: 2-3 CREDITS
Complete the	indicated number of credits from each CH	
CHOICE 1:	Related Professional Courses	2-3 Credits
SIGN 168	Expressive Manual Commun	2
SIGN 170	Creative Arts Signing	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
	MINIMUM TOTAL	36
NQTE		
1: An interpre 163 and S	eter screening is required after the succes IGN 167 and prior to registering for SIGN	sful completion of SIGN 261.

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 .	. •
SIGN 160	SIGN 162	SIGN 163	SIGN 164	
SIGN 161	SIGN 166	SIGN 167	SIGN 261	
			Lim.Ch.	
v	VI			
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 AUDIT CONDUCTED BY THE REGISTRAR'S OFFICE THAT IS INITIATED WHEN STUDENTS APLY FOR A DEGREE OR CERTIFICATE. STUDENTS ARE EXPECTED TO APPLY ONE SEMESTER PRIDE TO THE SEMESTER THEY INTEND TO GRAQUATE.

STAGE TECHNOLOGY

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2000-2001 Catalog Lansing Community College

STAGE TECHNOLOGY ASSOCIATE IN APPLIED ARTS DEGREE

Curriculum Code: 0853 (Effective Fall 2000-Summer 2005)

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 communications, including television and film studies; electrical or mechanical 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.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Class Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General Education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, some student may find it necessary to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREME	NTS TO	CREDIT HOURS	
CODE	Integrated Science - Physical	4	
ISCI 131		2	
MFGM 125	Rigging	4	
MTEC 120	Audio Production I	4	
SOCL 120	Introduction to Sociology	3	
SPCH 110	Oral Communic in the Workplace	2	
STEC 100	Intro to Stage Tech Industry	3	
STEC 120	Stage Lighting and Electricity	3	
STEC 130	Audio/Visual Technology	3	
STEC 140	Theatrical Make-Up/Wardrobe	3	
THEA 110	Introduction to Theatre		
THEA 111	Basic Stagecraft	2	
THEA 116	Scene Design I	3	
THEA 210	Theatre History	4	
WRIT 121	Composition 1	4	
LIMITED CH		OTAL: 28 CREDITS	
Complete the	indicated number of credits from each CHOIC	E listed below.	
CHOICE 1:	General Education Core Areas	0 Credits	
	NERAL EDUCATION section above)		
(see the or	Writing Core Area (See Note 1)	0	
	Speech Communication Core Area (See Not	te 1) 0	
	Science/Technology Core Area (See Note 1)) Ó	
	Global Perspectives and Diversity Core Area	(See Note 1) U	
	Mathematics Competency (See page 23 for how to fulfill this requirement. Course work r	information on	
	Humanities	8 Credits	

CHOICE 2:	Humanities	o Creuna
HUMS 211	History of Art 1	4
HUMS 212	History of Art II	4
HUMS 213	World Civilizations I	4
HUMS 214	World Civilizations II	. 4
CHOICE 3:	English Composition (See Note 2)	4 Credits
CHOICE 4:	Science/Mathematics (See Note 2)	4 Credits
CHOICE 5:	Social Science (See Note 2)	4 Credits
CHOICE 6:	Stage Technology (See Note 3)	8 Credits
		72

0

- NOTES 1. Students completing REQUIREMENTS have fulfilled the requirements for this Core area.
- See the MACRAO Transfer Agreement in the *Transfer Information* section of this catalog for appropriate english composition, science/mathematics, and social science courses.
- Students must take a minimum of 8 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.

L	E4	11	IV
	MTEC 120	STEC 130	MFGM 125
STEC 100	STEC 120	THEA 210	SOCL 120
THEA 110	THEA 116	Lim.Ch.	SPCH 110
THEA 111	Lim Ch.	Lim.Ch.	STEC 140
WRIT 121	Lim.Ch.	Lím.Ch.	Lim.Ch.
	Lintoon		Lim.Ch.

STAGE TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0849 (Effective Fall 2000-Summer 2005)

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.

	NTS	TOTAL: 27 CREDITS CREDIT HOURS
	Electrical Safety Practices	1
ELTE 100	Practical Electricity	3
ELTE 110		2
MFGM 125	Rigging	4
MTEC 120	Audio Production 1	2
STEC 100	Intro to Stage Tech Industry	. 3
STEC 120	Stage Lighting and Electricity	-
STEC 130	Audio/Visual Technology	3
STEC 140	Theatrical Make-Up/Wardrobe	3
THEA 111	Basic Stagecraft	2
WELD 100	Combination Welding	. 4

LIMITED CHOICE REQUIREMENTS

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

CHOICE 1:	Stage Technology (See Note 1)	10 Credits
	MINIMUM TOTAL	37

TOTAL: 10 CREDITS

NOTE

 Students must take a minimum of 10 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	§]	111	
ELTE 100 ELTE 110 STEC 100 STEC 120	MTEC 120 STEC 130 THEA 111 Lim.Ch.	MFGM 125 STEC 140 WELD 100 Lim.Ch. Lim.Ch.	

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CUSTOMER ENERGY SPECIALIST CERTIFICATE OF ACHIEVEMENT

Curriculum Code: 0893 (Effective Fall 2000-Summer 2005)

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. Customer energy specialists are employed by utility companies, governmental agencies, heating and cooling contractors, the construction industry, and engineering and architectural firms.

PREREQUISITES

Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

	NTS TITLE	TOTAL: 42 CREDITS CREDIT HOURS
ACCG 101	Accounting Info for Management	3
BUSN 118	Introduction to Business	3
CNCP 101	PC Applications for Technology	3
DTDS 101	Drafting I	4
DTDS 131	AutoCAD Basic 2-D	4
ELCT 101	Analog Problems	5
ELCT 109	DC Circuits	. · · 3
ELCT 110	AC Circuits	3
MATH 114	Technical Math I	4
MKTG 200	Principles of Marketing	. 3
PHYS 200	Applied Physics	. 4
SPCH 110	Oral Communic in the Workplace	. 3
	MINIMUM TOTAL	42

NOTE

1. Students who are employed or interning at Consumers Energy Company will also need to complete LEGL 215 and WRIT 124 for a total of 6 credits in addition to completing this certificate of achievement 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.

1	12	141	
BUSN 118	ACCG 101	ELCT 110	
CNCP 101	DTDS 131	MKTG 200	
DTDS 101	ELCT 109	PHYS 200	
ELCT 101	MATH 114	SPCH 110	

GENERAL TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

Curriculum Code: 0213 (Effective Fall 2000-Summer 2005)

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

Contact the Technology Careers Department, Gannon Vocational-Technical Center, Room 136, telephone number (517) 483-1336.

REQUIREMENTS		TOTAL: 22 CREOITS
CODE	TITLE	CREDIT HOURS
DTDS 110	Industrial Blueprint Reading	. 3
EMTA 100	Medical First Responder	4
MACH 100	Manufacturing Processes	. 4
MACH 135	Metallurgy and Heat Treat	4
QUAL 100	Intro Quality Assurance	4
WRIT 124	Technical Writing	Э

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

CHOICE 1:	General Education Core Areas 9 C	redits
(See the GEN	ERAL EDUCATION section above)	
	Writing Core Area (See Note 1)	0
	Speech Communication Core Area	3
	Science/Technology Core Area	3
	Global Perspectives and Diversity Core Area	з
	Mathematics Competency (See page 23 for information on how to fulfill this requirement. Course work may be needed	

CHOICE 2:	Mathematics	8 Credits
MATH 112	Intermediate Algebra	4.
MATH 114	Technical Math I	4
MATH 115	Technical Math II	4
CHOICE 3:	Applied Technology Related (See Note 2)	21 Credits
	MINIMUM TOTAL	60

NOTES

Students completing REQUIREMENTS have fulfilled the requirements for this 1. Core area

2. Contact an advisor in GVT 136 or call (517) 483-1336 for a listing of additional 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	۶I	111	IV	
EMTA 100	MACH 135	DTDS 110	Lim,Ch.	
MACH 100	Lìm.Ch.	WRIT 124	Lim.Ch.	
QUAL 100	Lim.Ch.	Lim.Ch.	Lim.Ch.	
Lim.Ch.	Lim.Ch.	Lim.Ch.	Lim,Ch.	

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TRAVEL/TOURISM

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2000-2001 Catalog Lansing Community College

AIRLINE OPERATIONS CERTIFICATE OF COMPLETION

Curriculum Code: 0918 (Effective Fall 2000-Summer 2005)

This curriculum is designed for individuals with travel experience who are interested in careers at airports or with airlines. It prepares the student with the basic skills and knowledge necessary for entry level positions as customer service representatives or flight attendants.

PREREQUISITES

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Students should see the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

REQUIREME	INTS TOTA	AL: 15 CREDITS
CODE	TIPLE	CREDIT HOURS
MGMT 150	Managing Customer Relations	3
SPCH 130	Fundamental of Public Speaking (See Note 1)	3
TRVL 135	Airline/Airport Operations	Э
TRVL 140	Airline Computer Reservation 1	3
TRVL 180	Flight Attendant	3
	MINIMUM TOTAL	15

NOTE

1. This course does not fulfill the Speech Communication Core requirement for 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 150			
SPCH 130			
TRVL 135			
TRVL 140			
TRVL 180			

TOUR CRUISE OPERATIONS CERTIFICATE OF COMPLETION

Curriculum Code: 0920 (Effective Fall 2000-Summer 2005)

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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

REQUIREMENTS		TOTAL: 16 CREDITS	
CODE	TITLE	CREDIT HOURS	
MGMT 150	Managing Customer Relations	3	
MGMT 239	Time and Stress Management	3	
SPCH 130	Fundamental of Public Speaking (See Note 1) 3	
TRVL 145	Intro Cruise Sales/Ground Tran	· 3	
TRVL 210	Group Travel/Escorting Ops	. 4	
	MINIMUM TOTAL	16	

NOTE

1. This course does not fulfill the Speech Communication Core requirement for 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.

MGMT 150 MGMT 239 SPCH 130 TRVI 145 **TRVL 210**

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TRAVEL AGENCY OPERATIONS CERTIFICATE OF COMPLETION

Curriculum Code: 0919 (Effective Fall 2000-Summer 2005)

This curriculum is designed to give individuals with travel experience the basic skills and knowledge necessary for entry level positions in a travel agency.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

INFORMATION

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

REQUIREMENTS		TOTAL: 17 CREDITS	
CODE	TITLE	CREDIT HOURS	
CISB 102	Internet Literacy	. 3	
MGMT 150	Managing Customer Relations	3	
MGMT 239	Time and Stress Management	3	
OADM 203	Professional Office Procedures	2	
TRVL 100	Travel Agency Operationss	3	
TRVL 140	Airline Computer Reservation I	Э	
	MINIMUM TOTAL	17	

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 MGMT 239 OADM 203 TRVL 100 TRVL 140

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TRAVEL/TOURISM

2000-2001 Catalog Lansing Community College

TRAVEL AND TOURISM ASSOCIATE IN BUSINESS DEGREE

Curriculum Code: 0229 (Effective Fall 2000-Summer 2005)

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, railroads, 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.

PREREQUISITES

Students should see the *Course Descriptions* section of this catalog or the *Course Schedule* for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

GENERAL EDUCATION

General education is an important part of this program and includes a mathematics competency requirement. To fulfill the mathematics competency requirement, students may need to complete specific course work in mathematics. For information on how to fulfill all general education requirements, see page 23.

INFORMATION

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

REQUIREMENTS		TOTAL: 55 CREDITS CREDIT HOURS
CABS 110	Microsoft Office	3
CISB 200	Info Sys Tech/Problem Solving	3
HMES 101	Intro Hospitality/Tourism	3
MGMT 150	Managing Customer Relations	3
MGMT 239	Time and Stress Management	3
MKTG 210	Marketing on the Internet	2
OADM 203	Professional Office Procedures	2
SPCH 110	Oral Communic in the Workplace	Э
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 and Seminar	3
TRVL 200	Sales/Mktg for Travel/Tourism	Э
TRVL 230	Travel/Tourism Law	3
TRVL 250	Airline Comptr Reservation II	. 3
TRVL 265	Fundamentals of Bus Travel	3
WRIT 127	Business Writing	, 3

LIMITED CHOICE REQUIREMENTS TOTAL: 15–18 CREDITS Complete the indicated number of credits from each CHOICE listed below.

CHOICE 1: (See the GEN	General Education Core Areas	3 Credits
1000 000 000	Writing Core Area (See Note 1)	0
	Speech Communication Core Area (See Note 1)	0
	Science/Technology Core Area (See Note 1)	0
	Global Perspectives and Diversity Core Area	3
	Mathematics Competency (See page 23 for informa	tion on
	how to fulfill this requirement. Course work may be i	
CHOICE 2:	Specific Travel Occupations (Choose one subchoice) 1	2-15 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 146	Seminar at Sea	2
TRVL 210	Group Travel/Escorting Ops	4

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a a 4.				
Subchoice 2E	3: Airline Operations			
MKTG 119	Mktg/Manage Your Profess Image			з
SPCH 130	Fundamental of Public Speaking	<u>}.</u>		3
TRVL 135	Airline/Airport Operations	1.5	•	3
TRVL 180	Flight Attendant			3
Subchoice 20	C: Travel Agencies			
TRVL 100	Travel Agency Operations			3
TRVL 170	Owning/Managing TrvI Agency			3
TRVL 210	Group Travel/Escorting Ops			4
TRVL 260	Travel Agency Accounting			2
	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 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	
CABS 110	SPCH 110	CISB 200	TRVL 131	
HMFS 101	TRVL 125	MKTG 210	TRVL 230	
MGMT 150	TRVL 140	OADM 203	TRVL 265	
MGMT 239	TRVL 145	TRVL 130	Lim.Ch.	
WRIT 127	TRVL 200	TRVL 190	Lim,Ch.	
Lim.Ch.	Lim.Ch.	TRVI. 250	Lim.Ch.	
		Lim.Ch.		

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TRUCK DRIVER TRAINING CERTIFICATE OF COMPLETION

Curriculum Code: 0262 (Effective Fail 2000 - Summer 2001)

A truck driver operates a commercial vehicle which 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 which 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 the Course Descriptions section of this catalog or the Course Schedule for course prerequisite information. Basic skills assessment and advising information may be found on page 8 of this catalog.

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 2000/2001 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.

BEQUIREMENTS 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 Admissions 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 tultion 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.

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.

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 LCC 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.
- Be at least 18 years old. Those persons between the ages of 18 & 21 f 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.
- 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.
- h 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 : 10262

REQUIREMENTS		TOTAL: 9 CREDITS CREDIT HOURS	
TDTP 110	Truck Driver Training I	. 3	
TDTP 111	Truck Driver Training II	3	
TDTP 112	Truck Driver Training III	, 3	
	MINIMUM TOTAL	. 9	

MINIMUM TOTAL

NOTE

The Program provides 140 hours in range and highway.driving and 60 hours 1. in classroom instruction situations. Range training includes an over-theroad 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. 170 E LANSING COMMUNITY COLLEGE CATALOG 2000-2001

TRANSFER INFORMATION

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Students 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 at the Counseling Services Department, Suite 2300. Gannon Vocational-Technical Center.

In addition, students intending to transfer should follow the transfer curriculum 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.

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

Curriculum guides and additional transfer information may be obtained by returning the information request card attached to the back cover of this publication or by contacting: LCC Counseling Services Department, Suite 2300, Gannon Vocational-Technical Center; TEL (517) 483-1904; FAX (517) 483-1970; E-MAIL mgarrison@lansing.cc.mi.us.

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

Areas of study (majors) for which transfer curriculum guides are available are as follows:

Accountancy Accounting Actuarial Science and Economics Administrative Assistant Advertising Agriculture and Natural Resources Communication Anriscience Animal Science Apparel Design Applied Liberal Studies Applied Mathematics Applied Physics Architecture Art Art History Athletic Training Atmospheric, Oceanic, and Space Sciences Audiology and Speech Sciences Automotive and Heavy Equipment Management Aviation Flight Science - Pilot Aviation Maintenance Technology Behavioral Science Biochemistry **Biological Science** Biology Biotechnology Broadcasting Building Construction Management Business Accounting Accounting Information Systems Administration Banking **Business Studies** Computer Management/Systems Fconomics Finance Food Industry Management Food Marketing General Business Health Care/Services Administration

Hospitality Human Resources Management Industrial Management Information Systems Insurance Integrated Supply Management International Logistics Management Marketing **Operations Management** Organizational Behavior Product Operation & Management Public Administration Retail Statistics Chemistry Child Development Chiropractic, Pre-Professional **Clinical Laboratory Science** Communication Interpersonal and Public Scientific and Technical Studies Technical and Professional Communication Arts **Computational Mathematics** Computer Information Science Computer and Mathematical Sciences Computer Information/Management Computer Information Systems Computer Networks and Systems Computer Science Conservation Construction Management Criminal Justice Criminology Crop and Soll Science Dental Hygiene Dentistry, Pre-Professional Dietetics Earth Science Economics Education Elementary

Physical Secondary Allied Health Biology Business Chemistry Home Economics Industrial Mathematics Music Technology Vocation Technology Special Engineering Administration Arts Aeronautical Aerospace Biosystems Chemical Civil Computer Construction and Management Electrical Environmental Geological Industrial and Operations Marine & Naval Architecture Material Science Mechanical Metallurgical Minina Nuclear Paper Physics Surveying Engineering Technology Automated Manufacturing Automotive Electrical/Electronics Heating, Ventilation. Air Condition and Refrigeration Heavy Equipment Service Manufacturing **Product Design** Welding English Environmental & Applications Studies Environmental Chemistry Environmental Science Exercise and Sport Science Facilities Management Family Consumer Resources Family Community Services Family Life Education Family Studies Fire Science General Emphasis Fisheries and Wildlife Management Food Industry Management Science Service Administration Forestry Geography Geological Sciences Geology Health Fitness in Prevent and Rehab Program Health Information Management History Home Economics Horticulture

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Hospitality Business Management Human Resources Administration Management Industrial Environmental Health Health and Safety Management Technology Insurance Interdisciplinary Studies Humanities Human Resources Public Policy Social Science Interior Architecture Interior Design International Business Studies James Madison Journalism Kinesiology Land Use Planning and Management Landscape Architecture Law Pre-Professional Legal Assistant Liberal Arts Management Microcomputer and Network Health and Fitness Health Services Organizational Development Marketing Mathematical Sciences Mathematics Mechanics Medical Laboratory Sciences Medical, Pre-Professional Medical Technology Merchandising Management Mortuary Science. Pre-Professional Music Natural Resources Nursing Nutritional Sciences Occupational Therapy Optometry, Pre-Professional Packaging Park, Recreation, and Tourism Resources Pharmacy, Pre-Professional Philosophy Photography Physical Therapy Physician Assistant Physics Podiatry, Pre-Professional Political Science Polymers and Coatings Technology Printing Management/Marketing Psychology Public Administration Public Relations Public Resource Management Quality Management Radiation Therapy Technology Recreation Recreational Management

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Retail Social Science Social Work Sociology Speech Communication Pathology and Audiology Sports Medicine/Science Surveying Systems Analysis and Application Development

Telecommunication Television Production Textile and Apparel Studies Merchandising Production Theater Tourism Management Urban and Regional Planning Veterinary Medicine Water Purification Tech Wood Science

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

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

Morehouse University Morris Brown College National College of Chiropractic Northern Michigan University Northwood University Oakland University Olivet College Palmer College of Chiropractic Rochester Institute of Technology Saginaw Valley State University School of the Art Institute of Chicago Sherman College of Straight Chiropractic Siena Heights University Spelman University Spring Arbor College 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

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 four-year 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 Composition	6 (semester hours minimum
Science and Mathematics	8 :	semester hours minimum
Social Science	8 :	semester hours minimum
Humanities	8 :	semester hours minimum

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.

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

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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 second 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 eight (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: ANAT 145, 151, 152, 201; BIOL 120, 121, 127, 128, 210, 260, 265; ISCI 122; MICR 203 AND 204; PFHW 123; PHGY 202
 Mathematics and Statistics: MATH 121, 122, 126, 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; METR 220, PHYS 201 and 225, 215 and 225

 III. Social Science (minimum of eight (8) sernester credit hours) *Choose courses in at least two (2) subject areas.* Economics: ECON 120, 140, 201, 202, 213
 Geography: GEOG 120, 200, 202
 Political Science: POLS 120, 121, 260, 270
 Psychology: CHDV 101; CJUS 255; PSYC 200, 202, 203, 205, 250
 Sociology/Anthropology: ANTH 270; CJUS 101,102, 106; GERO 100, SOCL 120, 254, 255, 260; SOWK 101

IV. Humanities (minimum of eight (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, 202; 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: HUMS 160, 213, 214, 215; HIST 240, 250

Literature: ENGL 201, 202, 203, 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

- 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.
- 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 four-year institutions are signatory to the MACRAO Transfer

Agreement: *Lake Superior State University

*Adrian College Albion College *Alma College Aquinas College Baker College *Calvin College Central Michigan University **Cleary College** Davenport College *Detroit College of Business *Eastern Michigan University Ferris State University *Grand Valley State University *Hope College *Kalamazoo College *Kettering University (formerly GMI) *Lawrence Technological University *Lawrence Technological University *Madonna University *Michigan State University *Michigan Technological University Northern Michigan University *Oakland University Olivet College Rochester College (formerly Michigan Christian College) *Saginaw Valley State University *St. Mary's College *Siena Heights University Spring Arbor College *Western Michigan University

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

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Course Descriptions

HOW TO READ COURSE DESCRIPTIONS

Each course description has seven (7) categories of information as iollows: For example: 1. Course code 2. Course title 3. Number of semester credit hours COURSE COURSE SEMESTER CREDITS 4. Prerequisite 5. Course description 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-Restriction: Avionics Majors ment. Other prerequisites may be added. See Course Schedule or Co-requisite course: AVEL 221 deparment each semester for current information 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 = Fall; 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
AHCC	Allied Health Courses
AIBL	American Institute of Banking: Lansing
ANAT	Anatomy
ANTH	Anthropology
ARCH	Architecture
ARTS	Art, Design and Multimedia
ARWS	Art Seminars and Workshops
ASTR	Astronomy
AUTO	Automotive
AVAF	Aviation Aldrame Maintenance
AVEL	Aviation Electronics
AVFT	Aviation 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 Seminars
BIOL	Biology
BLOR	Building Related
BLDT	Building Trades
BUSN	Business
CABS	Computer Applications Using Business Software
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
COOP	Cooperative Education
CPSC	Computer Science
CTRT	Court Reporting
CUAL -	Credit Union Accounting and Insurance
CUMA	Credit Union Management
DADH	Dental Assistant/Dental Hygiene

DANC	Dance
DAST	Dental Assisting
DHYN	Dental Hygiene
DTDS	Drafting and Design
ECON	Economics
EDUC	Education
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
ESLW	English as a Second Language Workshop
FILM	Film Production and Direction
FIRE	Fire Science
FENG	Foreign Language
FREN	French
GEOG	Geography
GEOL	Geology
GERO	Gerontology
GRET	Geographic Information Systems
GRMN	German
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
INAU	Industrial Automation
INSU	Insurance
INTB	Interior Design
IRXT	Radiologic Technology
ISCI	Integrated Science
JAPN	Japanese
JRNL	Journalism
LABR	Labor Relations

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LAND	Landscape	PHON	Phonics	
LEGL	Legal Assistant/Law	PHYS	Physics	
LING	Linguistics	POLS	Political Science	
MACH	Machine Tool Technology	PSYC	Psychology	
MASG	Massage Therapy	PVAA	Property Valuation and Assessm	rent Administration
MATH	Mathematics	QSEM	Quality Assurance Seminars	
MEDA	Medical Assistant	OUAL	Quality Assurance	
METR	Meteorology	RDGR	Reading: Restricted	
MFGM	Manufacturing Maintenance	READ	Reading	
MGMT	Management	REAL	Real Estate	
MICR	Microbiology	RELG	Religion	1
MILS	Military Science	SCIN	Science Technology Internship	
MKTG	Marketing	SCIS	Science Seminars	
MTEC	Media Technology	SDEV	Student Development	
MUSC	Music	SIGN	Sign Language	
NURS	Nursing	SOCL	Sociology	
OADM	Office Administration	SOWK	Social Work	
PARA	Paramedic	SPAN	Spanish	
PFAO	Physical Fitness: Aquatics	SPCH	Speech Communication	
PFCW	Physical Fitness: Combative/Weight Training	SPEL	Spelling Development	
PFDA	Physical Fitness: Dance	STAT	Statistics	
PFFT	Physical Fitness: Fitness	STEC	Stage Technology	
PFHC	Physical Fitness: Health/Fitness Cardiac	SURG	Surgical Technology	
PFHW	Physical Fitness: Health/Fitness Wellness	TOTP	Truck Driver Training Program	
PFIS	Physical Fitness: Individual Sport/Interest	TECH	Technology General	and the second
PFKN	Physical fitness: Kinesiology	THEA	Theater	
PFOA	Physical Fitness: Outdoor Activity	TRVL	Travel and Tourism	
PFPR	Physical Fitness: Professional	. VCBL	Vocabulary Improvement	
PFTS	Physical Fitness: Team Sport	WELD	Welding Technology	
PHGY	Physiology	WRIT	Writing	
PHIL	Philosophy	WRTR	Writing: Restricted	

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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 under current tax law. (Sp)

ACCG 245 Accounting Internship

Prerequisite: ACCG 210 2.0 minimum and Department Approval This internship provides the student with on-the-job experience in the accounting field. It requires 128 hours of work experience. (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, Su)

ACCG 266 Independent Study Accounting 1-4

Prerequisite: Department Approval

With this course, students will learn advanced accounting topics as a part of a class, an independent study, or a project. Grading criteria and course objectives are determined at the first meeting. The course requires a minimum for each credit earned of either 16 classroom hours or 48 independent study hours. (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. (F. Sp)

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 nonprofit organizations. Governmental Accounting Standards Board (GASB) and Financial Accounting Standards Board (FASB) requirements are teught. (F)

ACCG 290 Auditing

Prerequisite: ACCG 220 2.0 minimum

In this course, students will learn the theory and practice of auditing in accordance with generally accepted auditing standards. (F)

DESCRIPTIONS
ACCG - ACCOUNTING
ACCG 100 Practical Accounting Non-Major 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 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 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, Sp)
ACCG 160 Payroll Systems and Taxes 22 Prerequisite: 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 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 mer- chandisers. 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 2 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 manageria reports, capital budgeting, short-term decision-making, equity investments, time value of money, bonds, manufacturing accounting, job and process costing sys-

ACCG 220 Intermediate Accounting I

Prerequisite: ACCG 211 2.0 minimum

Recommended: Electronic Spreadsheet Experience

tems, and accounting for quality and cost management. (F, Sp, Su)

The purpose of this course is to review and expand upon the concepts of financial accounting that were covered in the Principles courses, to master time value of money concepts, and to cover the more complex and theoretical aspects of accounting for revenue recognition, cash, receivables, and inventory, (F, Sp)

ACCG 221 Intermediate Accounting II

Prerequisite: ACCG 220 2.0 minimum

This course provides an in-depth coverage of long-term assets and liabilities, financial instruments, leases, pensions, accounting for income taxes, stockholders' equity, and earnings per share. (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)

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 management; strategic planning; and management control. (Sp)

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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 theory 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 Air Force Today I	1
Prerequisite: None This course provides an introduction to the U.S. Air Force today. Course topic include mission and organization, group leadership problems, and introduction communication skills. Includes a leadership laboratory. (F)	

AERO 112 Air Force Today 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 Development of Air Power 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 Development of Air Power II

Prerequisite: None

This course focuses on Air Force leaders. 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

Prerequisite: 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, (F)

AGRI 202	Agri Soils and Crop Management	3
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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 analyzed, 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. (F, Sp, Su)

AGRI 212 Vegetable Crop Production

Prerequisite: 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

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. (F, Sp)

AHCC - ALLIED HEALTH COURSES

AHCC 104 Patient Care Principles

Prerequisite: Admission to Radiologic Technology Program

Principles of basic patient care are presented to assist the non-nursing student in managing patients in the health care setting. Information and simulated practice will include surgical aseptic techniques, infection control procedures, taking vital signs, handling medical emergencies, and other practices emphasizing the physical and emotional aspects of basic patient care. (F)

AHCC 106 Introduction to Pathology

Prerequisite: ANAT 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)

AHCC 110 Pharmacology-Allied Health

Prerequisite: ANAT 145 2.5 minimum

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)

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AHCC 111 EKG for Health Care Providers

Prerequisite: 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)

AHCC 112 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)

AIBL - AMERICAN INSTITUTE OF BANKING: LANSING AREA

AIBL 101 Principles of Banking

Prerequisite: None

This course is an introduction to the field of commercial banking, designed not only for newcomers to the field, but for students presently employed in banking who desire to broaden their knowledge and/or increase their opportunities for advancement. (F, Sp)

ANAT - ANATOMY

ANAT 145 Introductory Anat & Physiology

Prerequisite: Reading Level 5 and Writing Level 6

An introductory course 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, including dental assistant and medical transcriptionist, as well as non-science majors. (F, Sp, Su)

ANAT 151 Anatomy and Physiology I

Prerequisite: Reading Level 5 and Writing Level 6

First course of a two-semester sequence in human anatomy and physiology emphasizing the structure and function of cells and tissues; the skeletal, muscular and nervous systems; and special sense organs. (F, Sp, Su)

ANAT 152 Anatomy and Physiology II

Prerequisite: ANAT 151 2.0 minimum and Reading Level 5

This course is the second of a two-semester sequence emphasizing structure and function of the endocrine, digestive, respiratory, circulatory, urinary, and reproductive systems. Includes fetal development and genetics. (Sp)

ANAT 201 Human Anatomy

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: Biology 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. (F, Sp, Su)

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 human society, such as kinship, religion, law, politics, and economics are examined to provide a better understanding of the diversity of contemporary societies. (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 Physical Anthr and Archaeology

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: SOCL 120

Introduces human biological and cultural evolution, mechanisms of evolution, bi_{0+} logical and cultural evidence from the fossil record, culture as an adaptive mechanism, and modern human variation. (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 sites are used as examples. (Sp)

ARCH - ARCHITECTURE

ARCH 100 Introduction to Architecture

Prerequisite: Math Level 3

This course is for students with no previous experience in basic architectural drafting. 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 will be accomplished. (F, Sp, Su)

ARCH 101 Architectural Drafting I

Prerequisite: Math Level 3

Recommended: ARCH 100 or Equivalent

This course is the first of a four-part series of residential and light commercial architectural drafting courses. Students will use previously obtained basic drafting techniques to draw a series of residential details. The development of professional quality drafting, lettering, research, and communication techniques will be emphasized. (F, Sp, Su)

ARCH 102 Architectural Drafting II

Prerequisite: ARCH 101-1.0 minimum

Recommended: ARCH 121 or Concurrently

This course is the second in a four-part series of residential and light commercial architectural drafting courses. Students will use previously obtained basic drafting techniques and knowledge of residential detailing to design and draft basic architectural design problems, residential floor plans, elevations, and building sections. (F, Sp, Su)

ARCH 121 Visual Communication I

Prerequisite: None Recommended: ARCH 100 or Equivalent

Students with very little or no previous experience in the production of architectural graphics will be introduced to the basic techniques of sketching, axonometric, and perspective drawings. The theory and production of the most commonly used professional techniques of black and white architectural rendering and basic modeling will be studied. (F, Sp, Su)

ARCH 122 Visual Communication II

Prerequisite: None

Recommended: ARCH 121

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 123 Visual Communication III

Prerequisite: None

Recommended: ARCH 122

The goal of this course is to use the students' previously obtained graphic production knowledge to realistically depict three-dimensional architectural spaces and related entourage. An emphasis on developing the use of light and shadow and the true depiction of textures and materials will be taught. (F)

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)

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ARCH 128 Residential Planning

Prerequisite: None

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This course is designed for beginning through advanced students of architecture who want to study the theories behind the design of the American single-family residence. Architectural styles, planning concepts, the writing of design criteria programs, and the production of basic diagrams through finished concept drawings will be accomplished. (F, Sp)

ARCH 131 City Planning

Prerequisite: None

This is an introduction to the field of urban and regional planning. The development of planning theory; process and practices, such as urban design, environmental, and land-use planning; transportation; economic development; housing; and community facilities will be studied. The history of various cities and their development will also be studied. (F, Sp)

ARCH 138 Architecture Portfolio

Prerequisite: None

Recommended: ARCH 102 or Equivalent

This course will allow students to prepare a portfolio of previous classroom and professional work to be used for employment interviews and/or transfer to fouryear institutions. Portfolios will be prepared using a variety of graphic techniques and will introduce the students to computer-generated portfolio presentations. (Sp)

ARCH 141 Architectural History I

Prerequisite: None

Beginning with ancient times, this course studies the major civilizations which have contributed to the development of the architecture of world civilizations. A wide variety of visual media will be used to present the major theories, works, personalities in architecture, and the decorative arts through the Renaissance. (F, Sp)

ARCH 142 Architectural History II

Prerequisite: None

Recommended: ARCH 141

This course, the second in a series, examines the greatest works and principal figures in world architectural history from the 1600s forward. Using a variety of visual media, this course will look at the principal works, theories, and individuals who have had the greatest impact on architecture and decorative arts to the present day. (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 new uses for existing structures. (F, Sp)

ARCH 181 Barrier-Free Design

Prerequisite: None

used. (F, Sp)

This course covers the design, construction, and inspection aspects of commercial buildings required to be accessible to the handicapped. Michigan and federal laws, barrier-free residential design, and design practice problems are included. (F, Sp, Su)

ARCH 182 Universal Design

Prerequisite: None

Recommended: ARCH 100 and ARCH 181 This course is designed for students with some architectural drafting experience. Students will apply ADA laws as well as Michigan's Barrier Free or Universal Design to residential design. Both study cases and original design projects will be

ARCH 201 Architectural Drafting III

Prerequisite: ARCH 102 1.0 minimum and Math Level 4

Recommended: ARCH 141

This course is the third of a four-part series of residential and light commercial architectural drafting courses. Students will use previously obtained drafting, research, and presentation skills to design, delineate, present, and draft a light commercial project from basic schematics to working drawings. (F, Sp, Su)

ARCH 202 Architectural Drafting IV

Prerequisite: ARCH 201 1.0 minimum

Recommended: ARCH 271 or Concurrently

This course is the conclusion in a four-part series of residential and light commercial architectural drafting courses. Students will use previously obtained drafting, research, and presentation skills to complete the working drawing floor plans, elevations, sections, and details for the light commercial projects started in the preceding course. (Sp)

ARCH 211 Design Studio I

Prerequisite: None

Recommended: ARCH 101 or Concurrently

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 212 Design Studio II

Prerequisite: ARCH 211 2.0 minimum

This course will use the skills developed in ARCH 211 to expand the student's understanding and processes for designing three-dimensional architectural space. Using models and various graphical mediums, students will explore the effects of scale, circulation, light, color, and texture on the spaces and forms created. (Sp)

ARCH 213 Facilities Design

Prerequisite: None

Recommended: ARCH 101 or Equivalent

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

Prerequisite: None

Recommended: ARCH 100 or Equivalent and Windows Experience An introductory course to architectural computer-aided drafting, using DataCAD on a PC computer system. Students will 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 presentation

drawings and perspectives. (F, Sp, Su) ARCH 222 Architectural DataCAD II

Prerequisite: None

Recommended: ARCH 221

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)

ARCH 225 Arch DataCAD Independent Study

Prerequisite: ARCH 222 2.0 minimum and Department Approval This is an advanced-level, computer-aided drafting and design, independent study course, using DataCAD software. After completing all available structured

DataCAD courses, students will outline, research, design, and construct a project of their own selection with the approval and guidance of the instructor. (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: None

Recommended: ARCH 231 This course is a continuation of ARCH 231, utilizing advanced two-dimensional techniques and a strong emphasis in the three-dimensional environment. Additional topics include digitizing drawings, paper space, slide shows and rendering, basic 3-D solids, program customization, and an introduction to AutoLISP. (F, Sp)

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ARCH 235 Arch AutoCAD Independent Study

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Prerequisite: ARCH 231 2.0 minimum and Department Approval This is an advanced-level, computer-aided drafting and design, independent study course, using AutoCAD software. After completing all available structured AutoCAD courses, students will outline, research, design, and construct a project of their own selection, with the approval and guidance of the instructor. (F, Sp, Su)

ARCH 237 Arch Computer Rendering

Prerequisite: None

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 241 Arch AES Computer Graphics I

Prereguisite: None

Recommended: ARCH 100 or Equivalent

This course is designed as an entry-level, computer-aided drafting and design course using the AES software. Students will learn to build command strings in the modeling program to construct 3-D geometry, edit, create layers, plot, apply text and dimensions, and to open and close graphic windows. (F, Sp)

ARCH 242 Arch AES Computer Graphics II

Prerequisite: None

Recommended: ARCH 241

This course will build on the knowledge gained in ARCH 241 and will add additional applications in modeling, file management, plotting, and rendering. (Sp)

ARCH 245 Arch AES Independent Study

Prereguisite: ARCH 242 2.0 minimum and Department Approval

This is an advanced-level, computer-aided drafting and design independent study course using AES software. After completing all available structured AES courses, students will outline, research, design, and construct a project of their own selection with the approval and guidance of the instructor. (F, Sp, Su)

ARCH 251 Architectural MicroStation I

Prerequisite: None

Recommended: ARCH 100 or Equivalent and Windows Experience

This class is an introductory computer graphics course using the MicroStation computer graphics software. Students will learn to develop basic 2-D geometry, editing commands, file manipulation, and utilization of levels, views, text, dimensioning, and plotting. (F, Sp)

ARCH 252 Architectural MicroStation II

Prerequisite: None

Recommended: ARCH 251 or Equivalent

This is an intermediate-level computer graphics course. Using the MicroStation software, students will learn to create and manipulate 3-D drawing surfaces and solids, 3-D cells, rendering, lighting, material tables, pattern mapping, and object motion. Upon completion of this class, students will be able to create, manipulate, and render 3-D models. (Sp)

ARCH 255 MicroStation Independent Study

Prerequisite: ARCH 252 2.0 minimum and Department Approval

This is an advanced-level, computer-aided drafting and design independent study course using MicroStation software. After completing all available structured MicroStation courses, students will outline, research, design, and construct a project of their own selection with the approval and guidance of the instructor. (F, Sp. Su)

ARCH 271 Structural Theory

Prerequisite: Math Level 4

Recommended: ARCH 101 or Concurrently

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 101 or Concurrently

This course is designed for architecture and interior architecture 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)

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ARCH 274 Arch Professional Practice

Students will have the opportunity to study the configuration, responsibilities, and ethics of professional architectural offices. This course will examine and visit various offices of the architectural, engineering, and construction industry and explore job responsibilities, personnel, and the procedures used in the production of construction documents. (F, Sp)

ARCH 276 Alternative Structures

Prerequisite: None

Prerequisite: None

Architectural and construction specialties will include earth sheltered homes, steel and in-steel 3-D, log building, pole construction, timberframe, stress skin panel, straw bale, tire building and alternative foundation 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 Energy Efficient Design

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 101 or Equivalent

This course consists of the evaluation of tha 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

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This course provides the second-year architecture student with the opportunity to pursue a project of personal interest under the supervision of an instructor. With the approval and under the guidance of the instructor, the student will outline, research, design, and construct a project of his or her own selection. (F, Sp, Su)

ARTS - ART, DESIGN AND MULTIMEDIA

ARTS 102 2-Dimensional Design

Prerequisite: Reading Level 3 and Writing Level 2

Recommended: Macintosh Experience

Universal elements and principles of two-dimensional design, design theory and process, with emphasis on composition and its application to black-and-white and color 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 131 Drawing I

Prerequisite: (ARTS 102.2.0 minimum or IMAG 112.2.0 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 Life 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)

ARTS 133 Surface Anatomy for Artists

Prerequisite: ARTS 131 2.0 minimum This course is designed specifically for the visual artist. Emphasis will be on identifying and visually representing the effects that the skeletal and muscular systems and body type have on human surface anatomy. Live models will be used. This course cannot be taken as a Science Department anatomy requirement. (F, Sp, Su)

	ARTS 136 – ARTS
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ARTS 136 Figure Sculpture	
Prerequisite: ARTS 132 2.0 minimum and (ARTS 133 2.0 minimum or	ARTS 195 Employ/Busn Issues for Artists Prerequisite: None
Concurrently) A studio course in the 3-Dimensional representation of the human figure. The stu- dent will use various modeling tools to sculpt the figure in clay. Projects will	An introduction to business, legal, and specific marketing issues relevant to artists. Students will be introduced to copyrights, contracts, and basic record ing. The focus is on specific employment goals relevant to artists. (F, Sp)
include: gestural sketches, anatomical details, and reclining, seated and standing full-figure poses. (F, Sp)	
	ARTS 200 Painting (
ARTS 137 Perspective Drawing 2 Prerequisite: ARTS 131 2.0 minimum Further development of the drawing process. This course includes expanded per- spective principles and quality of light with an emphasis on visualization. (F, Sp, Su)	Prerequisite: ARTS 102 2.0 minimum and ARTS 131 2.0 minimum An introduction to oil and acrylic painting concepts in the Western tradition ing from Renaissance to Contemporary. Examines basic materials, tools, niques, and modes of expression. (F, Sp, Su)
	ARTS 201 Painting II
ARTS 140 Printmaking i 4	Prerequisite: ARTS 200 2.0 minimum
Prerequisite: ARTS 102 2.0 minimum or Concurrently An introduction to the various printmaking techniques, tools, and vocabulary of the printmaker. Includes etching, collagraph, monoprinting, and linoleum cut. (F, Sp)	A continuation of Painting I (ARTS 200) emphasizing more advanced tech and increasingly complex problems in painting. A variety of media, techr and approaches is encouraged. (F, Sp, Su)
ARTS 141 Printmaking II 4	ARTS 203 Figure Painting
Prerequisite: ARTS 140 2.0 minimum	Prerequisite: ARTS 102 2.0 minimum and ARTS 132 2.0 minimum
Students expand on processes and concepts introduced in Printmaking (ARTS 140). Emphasizes relining technical skills and conceptual development. (F, Sp)	A studio course in the human figure using various media such as oil paint, color, acrylic paint, and pastel. (F, Sp, Su)
ARTS 145 Screen Printing I 4	ARTS 204 Watercolor I
Prerequisite: ARTS 102 2.0 minimum or Concurrently An introduction to basic silkscreen stencil processes with an emphasis on registration techniques. Includes constructing a frame and making a phototransparency. (F, Sp)	Prerequisite: ARTS 102 2.0 minimum and ARTS 131 2.0 minimum An introduction to the art of transparent watercolor. Examines paper chara tics, degrees of wetness, brushes and tools, and various techniques in pro-
ADTS 146 Serees Bristing It	watercolor art works. (F, Sp)
Prerequisite: ARTS 145 2.0 minimum	ARTS 205 Watercolor II
Students expand on processes and concepts introduced in Screen Printing t	Prerequisite: ARTS 204 2.0 minimum
(ARTS 145). Includes an in-depth study of photographic processes in combination with paper, cut film, and block-out stencils. (F, Sp)	A continuation of Watercolor I (ARTS 204) emphasizing more advanced niques and increasingly complex problems using watercolor. (F, Sp)
ARTS 151 Computer Graphics/Illustration 3	ARTS 206 Advanced Watercolor
Prerequisite: ARTS 131 2.0 minimum Recommended: Windows 95/98/NT Experience A beginning course for students interested in creating artistic images using a com- puter as a tool, building on design and drawing skills. (F, Sp, Su)	Prerequisite: ARTS 205 2.0 minimum An opportunity for the advanced student to continue with his or her personal or ration and development of watercolor skills under the guidance of an instr
ADTO 100 Transmission	(F, Sp)
3 Prerequisite: (ARTS 102 2.0 minimum or IMAG 112 2.0 minimum) or Concurrently	ARTS 213 Illustration Fundamentals
Use of type in visual communication with an emphasis on creativity. Students will be introduced to the tools, materials, and manual and digital type techniques necessary to professionally use type. (F, Sp, Su)	Prerequisite: ARTS 132 2.0 minimum and ARTS 137 2.5 minimum Illustrative techniques are utilized to prepare working sketches and convert to finished Illustrations. This course includes a variety of contemporary, re techniques. Emphasis is placed on sound draftsmanship and solving s
ARTS 171 Computer Graphics/Photography 3	graphic problems through illustration. (F, Sp)
Prerequisite: ARTS 102 2.0 minimum or IMAG 112 2.0 minimum	ARTS 216 Humorous Illustration I
Recommended: Macintosh Experience An introduction to computer manipulation of photographic images. Resolution, design and color skills are required for enrollment. (F, Sp, Su)	Prerequisite: ARTS 131 2.0 minimum or Concurrently Basic humorous illustration/cartooning foundations are demonstrated. Exer are given on cartooning heads, animals, objects, and drawing techniques. Gr projects include a caricature utilizing a drawing technique. Originality and in
ARTS 173 Computer Graphics/Web Design 2 Prerequisite: (ARTS 151 2.0 minimum or ARTS 171 2.0 minimum) or	nation are emphasized. (F, Sp, Su)
Concurrently and CISB 102 2.0 minimum	ARTS 217 Humorous Illustration II
A course in visual designthe 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, Sp, Su)	Prerequisite: ARTS 216 2.5 minimum and (ARTS 132 2.0 minimum or Concurre A continuation of Humorous Illustration I designed to expand the student's hu ous illustration skills through a variety of black-and-white and color proj
	Projects will concentrate on the various commercial applications of humc illustration. (Sp)
ARTS 175 Electronic Design 3	
Prerequisite: ARTS 102 2.0 minimum and (ARTS 162 2.0 minimum or Concurrently)	ARTS 221 Airbrush Techniques I Prerequisite: None
Recommended: Knowledge of Mac OS and Basic Keyboarding Skills An introduction to page layout software and object-oriented illustration software programs utilizing the Macintosh computer. Emphasis is on using electronic pub- lishing applications for design. (F, Sp, Su)	Introduction to the operation and techniques of the airbrush in shading and c ing textures in both black and white and color. Assignments include using var masking methods and freehand techniques. (F, Sp, Su)
ARTS 190 Matting and Framing Techniques	ARTS 222 Airbrush Techniques II
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	Prerequisite: ARTS 131 2.0 minimum or Concurrently and ARTS 221 2.0 minim A continuation of Airbrush Techniques I (ARTS 221) with an emphasis on m complex airbrushing problems including portrait rendering and painting of m metallic surfaces. A variety of surfaces will be used including fabric, leather, fin

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ARTS 224 Automotive Airbrush Techniques	4
Prerequisite: ARTS 221 2.0 minimum //is course introduces techniques for painting on contoured automotive surfact	-
Projects incorporate various masking techniques, handbrush techniques, a pecialized paint systems. (F, Sp, Su)	
AFTS 227 Humorous Illustration III	3
Prerequisite: ARTS 217 2.5 minimum A continuation of Humorous Illustration II with an emphasis on development of a p onal style. Projects include commercial illustration and self-promotion. (F, Sp, S	
ARTS 228 Advanced Digital Imaging	3
Prerequisite: ARTS 171'2.5 minimum In advanced level study in the manipulation and processing of digital pho- raphic images. Emphasis is on professional scanning, manipulation and output ligital images using available software products. Instruction includes preparat if images for prepress (hardcopy) and soft display (Multimedia, CD-ROM a Vorld Wide Web). (F, Sp, Su)	t of ion
ARTS 231 Comp Graphics/Advanced Illustr	3
Prerequisite: (ARTS 151 2.5 minimum or ARTS 175 2.5 minimum) and ARTS 171 2.5 minimum	
full-color illustration techniques are taught using the computer as a to assignments include stylized drawing techniques and design-oriented compo on, with an emphasis on problem solving. (F, Sp, Su)	
ATS 232 Comp Graphics/2-D Animation	4
rerequisite: (ARTS 216 2.5 minimum or IMAG 111 2.5 minimum) and	
ARTS 151 2.5 minimum and ARTS 171 2.5 minimum reate 2-D animations using the computer. Emphasis is on the history, theory, a inciples of animation. (F, Sp, Su)	ınd
RTS 233 Comp Graphics/2-D Interactive	4
rerequisite: ARTS 232 2.5 minimum course which uses 2-D animation skills to create interactive presentations a nimated Web pages. Emphasis is on basic programming concepts and desi 5 Sp)	
RTS 234 Comp Graphics/3-D Animation 1	4
rerequisite: ARTS 151 2.5 minimum and ARTS 171 2.5 minimum n introduction of 3-D solid modeling, rendering techniques and animation or esktop graphics system. Introduction of the principles of designing for video. p, Su)	
RTS 235 Comp Graphics/3-D Animation II	3
rerequisite: ARTS 234 2.5 minimum continuation of 3-D Animation I (ARTS 234). Emphasis on creation of more co lex models and animations. (F, Sp)	m-
RTS 236 Computer Graphics/Production	з
rerequisite: (ARTS 233 2.5 minimum or ARTS 235 2.5 minimum) and	-
(ARTS 228 2.5 minimum or IMAG 205 2.5 minimum) his course covers analysis, design, and development of a completed electro oject such as a CD, videotape, or WWW publishing. Techniques include reco g and editing of two- and three-dimensional graphics, animation, video, aud hd imaging. Students implement theory and practice for designing, product hd disseminating multimedia at planning pre-production, managing producti hd post-production levels. (F, Sp)	rd- tio, ng,
RTS 240 Art for Elementary Teachers	Э
Perequisite: None specially for elementary school teachers responsible for the student art expenses nce. Emphasis on developing a greater art appreciation, awareness of art forr nd competency working with a variety of art media. Covers the creative and me al growth of children and their needs in an art situation. (F, Sp, Su)	ns,
RTS 251 Graphic Design I	4

Prerequisite: ARTS 102 2.0 minimum and ARTS 162 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, Su)

ARTS 252 Graphic Design II

Prerequisite: ARTS 251 2.5 minimum (previously ARTS 180)

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)

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RTS 253 Graphic Design III

rerequisite: ARTS 252 2.5 minimum (previously ARTS 181) and MKTG 140 2.5 minimum

n advanced collaborative learning course involving corporate image and the esign of promotional graphics, both two- and three-dimensional. Utilizes innovave design and media considerations. (F, Sp)

RTS 257 Computer Prepress Prod Tech

rerequisite: ARTS 171 2.5 minimum and (ARTS 252 2.5 minimum

(previously ARTS 181) or Concurrently)

n overview of digital prepress techniques for computer-generated modia, includg color separations, trapping, output, and digital file preparation. Instruction cludes computer system components, printing terminology and processes. The purse emphasis is on professional knowledge and accuracy. (F, Sp, Su)

RTS 269 The Portfolio

rerequisite; Department Approval

he student will assemble his or her best work under faculty supervision into a phesive, relevant presentation for the purpose of securing employment in a choen career area. Includes creative resume, cover letter writing and self promotion. his course is intended to be a final course in the Art, Design and Multimedia rogram (F Sp)

RTS 270 Comp Graphics Independ Study

rerequisite: Department Approval

individual 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)

RTS 272 Printmaking Independent Study

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 projects to ceive department approval. (F, Sp, Su)

RTS 276 Art Independent Study

rerequisite: Department Approval

dividual pursuit of special projects not incorporated in regular class offerings. ne student must submit a written application detailing his or her project to receive epartment approval, (F. Sp. Su)

RTS 281 Art Internship

rerequisite: Department Approval

n off-campus field study. Students will gain pre-career experience by working in studio environment under the supervision of a professional artist/designer. equiarly scheduled progress reports will be given and discussed with supervisg faculty member. A minimum of 15 hours per week. (F, Sp, Su)

ARWS CART SEMINARS AND WORKSHOPS

RWS 120 Basic Drawing

rerequisite: None

n introductory course using a variety of materials including pencil, charcoal, and k, For non-maiors, (F. Sp. Su)

RWS 131 Intro to Computer Illustration

rerequisite: None

condensed hands-on workshop introducing computer graphics utilizing sophiscated, user-friendly, artistic software. Programming skills are not necessary. Sp, Su)

RWS 132 Introduction to QuarkXpress

Prerequisite: None

A condensed, hands-on workshop designed to provide the student with a working knowledge of QuarkXpress software utilizing a Macintosh computer. Emphasis is on desktop publishing applications. (F, Sp)

ARWS 133 Introduction to PageMaker

Prerequisite: None

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A condensed hands-on workshop designed to provide the student with a working knowledge of Adobe PageMaker software utilizing a Macintosh computer. Emphasis is on desktop publishing applications. (F, Sp, Su)

	ARWS 136 - AUTO 143	
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ARWS 136 Intro to Adobe Illustrator 1	AUTO 105 Automotive Safety 1	
Prerequisite: None A condensed, hands-on workshop designed to provide the student with a working knowledge of Adobe Illustrator software utilizing a Macintosh computer. Emphasis is on desktop publishing applications. (Sp)	Prerequisite: Department Approval This course will provide the student with an overview of safety policies and proce- dures used in the automotive repair field. (Su)	
ARWS 137 Intro to Adobe Photoshop 1		
Prerequisite: None A condensed, hands-on workshop designed to provide the student with a working knowledge of Adobe Photoshop software. Emphasis is on desktop publishing applications. (F)	Prerequisite: AUTO 100 2.0 minimum or Concurrently This course in basic electricity covers the fundamentals of automobile electricity. Materials covered will include electron theory, circuits and wiring diagrams. The student will learn how circuits work and how to diagnose malfunctioning circuits. Maximum emphasis will be directed to vehicle diagnosis. (F, Sp)	
ARWS 139 Multi-Media Web Graphics 1	AUTO 120 Auto Drive Train 3	
Prerequisite: None A hands-on course designed to provide the student with a working knowledge of multi-media and web page design. Emphasis is on web design issues for artistic, creative and/or visual learners using Macintosh computers and a variety of multi- media/web software. (F, Sp, Su)	Prerequisite: AUTO 100 2.0 minimum or Concurrently This course is designed to prepare the technician to enter the auto repair and ser- vice industry. The student will study the operation and repair procedures for man- ual transmissions and transaxles, manual and hydraulic clutches, drive shafts and half-shafts, rear-axles, front and rear-wheel drive differentials and four-wheel drive components. (F, Sp)	
ARWS 141 Watercolor Workshop 1	AUTO 121 Automatic Transmissions 1 5	
Prerequisite: None A condensed learning experience introducing the student to the art of transparent watercolor. Emphasis is on the use of different papers, degrees of wetness, tools, and techniques. Students will progress to more complex problems as ability develops. (F, Sp, Su) ARWS 142 Watercolor Workshop II 1	SS, This course in automatic transmissions is designed to prepare the technician enter the auto repair and service industry. The student will study the theory operation, service procedures, problem diagnosis, repair techniques and overh procedures for the following transmissions: GM 125C, 700R4, and the Chryster and the Chry	
Prereguisite: None		
A condensed learning experience designed to advance the student in the variety of effects of transparent watercolor, stressing the fundamentals of design color and value in the composition. (Sp)	AUTO 122 Automatic Transmissions II 3 Prerequisite: AUTO 121 2.0 minimum This course in automatic transmissions is designed to prepare the technician to enter the auto repair and service industry. The student will study the theory of	
ARWS 145 Landscape Painting & Drawing 1	operation, service procedures, problem diagnosis, repair techniques and overhaul	
Prerequisite: None	procedures for the following transmissions: Ford AXOD, General Motors 4T60E, and Chrysler 604. (F, Sp)	

Prerequisite: None Emphasis is on the use of color, perspective, and compositional strategies of the landscape. Most sessions spent in the field. All types of media are acceptable. (Su)

ARWS 221 Calligraphy I

Prerequisite: None

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Introduces the student to the art of fine writing using italic pens, Emphasis on hand lettering, surveying different styles and scripts used in early manuscripts, and adaptation to modern use. (F, Sp)

ARWS 224 Cartooning Workshop

Prerequisite: None

Emphasizes simple but imaginative characterizations and dramatic exaggerated action in a variety of media including pencil, fibertipped pen, and brush and ink. Previous drawing experience helpful. (F, Sp)

ASTR - ASTRONOMY

ASTR 201 Introductory Astronomy

Prerequisite: Reading Level 5 and Writing Level 4 and Math Level 4 A survey course of astronomy. Topics include ancient astronomy, the night sky, telescopes, space exploration, the solar system, stellar evolution, neutron stars and black holes, galaxies and quasars, cosmology, and the expanding universe. The LCC planetarium and observatory augment laboratory activities which illustrate important concepts in astronomy. (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

Prerequisite: 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, Sp)

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AUTO 141 Non-Structural Repair

Prereguisite: AUTO 110 2.0 minimum or Concurrently

Prerequisite: Department Approval

AUTO 130 Automotive Engines

dures are also covered. (F, Sp, Su)

AUTO 133 Small Engine Repair

AUTO 140 Automotive Brakes

Prerequisite: None

Sp, Su)

oratory work. (F, Sp, Su)

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Prerequisite: AUTO 110 2.0 minimum or Concurrently

Recommended: Evidence of Mechanical Ability

This course introduces the student to elementary repairs that are completed in the collision repair industry. This allows the student to become familiar with the collision repair field environment. (F, Sp, Su)

This advanced course in engine rebuilding is designed to prepare technicians to

enter the auto repair and service industry. The student will disassemble, inspect

(using precision measuring tools and specialized equipment) and reassemble an

engine. Theory of operation, basic computer technology and machining proce-

This is a basic course that covers the servicing and repair of two-cycle and four-

cycle small gas engines. Each student is required to supply a small engine for lab-

This course prepares technicians to enter the auto repair and service industry.

Theory and operation of modern automotive brake systems, hydraulic system

diagnostic procedures and service procedures for disc and drum brake systems

will be studied. A brief overview of anti-lock brake systems will also be covered. (F,

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AUTO 142 Advanced Non-Structural Repair

Prerequisite: AUTO 141 2.0 minimum 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)

AUTO 143 Auto Body Welding and Cutting

Prereguisite: 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, oxy-acetylene resistance spot welding and oxy-acetylene plasma arc cutting are included. (F. Sp. Su)

AUTO 144 - AVAF 127

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AUTO 144 Auto Body Structural Repair 5	AUTO 230 Anti-Lock Braking Systems 3
Prerequisite: AUTO 141 2.0 minimum and 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 pro- tection. (F, Sp, Su)	Prerequisite: AUTO 140 2.0 minimum and AUTO 225 2.0 minimum This course in anti-lock brakes is designed to prepare the student to enter the auto repair and service industry. The theory, application and diagnosis of Bosch, Teves, and Kelsey-Hayes anti-lock systems will be studied in detail. The students will also study the basic principles of other various anti-lock systems. (F, Sp)
AUTO 145 Introduction to Refinishing 5	AUTO 251 Advanced Computer Diagnosis 2
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) AUTO 146 Advanced Refinishing 5	Prerequisite: AUTO 225 2.0 minimum This advanced course in automotive computer systems diagnosis is designed to prepare the student to enter the auto repair and service industry. The student will study computer diagnosis procedures for General Motors, Chrysler and Ford vehi- cles. "Strategy Based Diagnosis" procedures will be emphasized. (F, Sp)
Prerequisite: AUTO 145 2.0 minimum	AUTO 260 Intro to Alternative Fuels 2
This course builds on skills developed in AUTO 145, Overall refinishing, spot repairs and color matching with a variety of contemporary color-coat materials will be stressed. (F, Sp, Su) AUTO 147 Collision Repair Estimating 3 Prerequisite: AUTO 142 2.0 minimum and AUTO 144 2.0 minimum and	Prerequisite: AUTO 130 2.0 minimum and AUTO 225 2.0 minimum This course is designed to help prepare the student to enter the auto repair and service industry. The student will study the use of propane, methanol, compressed natural gas (CNG), ethanol, liquified natural gas, hydrogen and electricity as alter- native fuels in cars and light trucks. Safety regulations will be covered. (F, Sp)
AUTO 146 2.0 minimum	AUTO 261 Alternative Fuels - CNG
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)	Prerequisite: AUTO 260 2.0 minimum 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 natural gas (CNG) on automobiles and light trucks. Theory, application, installation, diaq-
AUTO 148 Automotive Plastic Repair 3	nosis and safety regulations pertaining to the use of CNG will be covered. (F, Sp)
Prerequisite: 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) AUTO 150 Auto Steering & Suspension 3	AUTO 262 Alt Fuels-Propane (LPG) 3 Prerequisite: AUTO 225 2.0 minimum 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)
Prerequisite: AUTO 100 2.0 minimum or Concurrently This course is designed to prepare technicians to enter the auto repair and service industry. The student will study theory, problem diagnosis and repair of suspension and steering components found on both front- and rear-wheel drive vehicles and adjustment of alignment angles on front- and rear-wheel drive vehicles. (F, Sp)	AUTO 280 Automotive Service Laboratory 5 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	AUTO 285 Automotive Internship 6
Prerequisite: AUTO 110 2.0 minimum This course in automotive air conditioning service is designed to prepare techni- cians to enter the auto repair and service industry. The student will study the the- ory, application, diagnosis and repair of automobile heating and air conditioning systems. Both mechanical and electronic controlled systems will be studied. (F, Sp, Su)	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 285 Indepen Study/Automotive 1–3
	Prerequisite: Department Approval
AUTO 165 General Auto Mechanics 2,5 Prerequisite: None Automobile owners will gain a better understanding of the automobile and be able to make some repairs. Areas covered include preventive maintenance, tune-ups, brakes, engines, electrical systems, drive lines, front end, and steering. (F, Sp, Su)	Special research projects and/or individual readings are used to apply personal and professional experience to the academic area of interest. A minimum of 48 hours of work is required per credit, and the completion of a written project report. This course cannot be audited. (Su)
AUTO 188 Auto Body Repair and Painting 4	AVAF - AVIATION AIRFRAME MAINTENANCE
Prerequisite: Department Approval This is a combined course of auto body repair and painting. It provides an oppor- unity to practice the techniques learned in AUTO 141, 142, 143 and 145. (F, Sp, Su)	AVAF 125 Aircraft Systems I 2 Prerequisite: Department Approval The study of fuel management, transfer, defueling and fuel pump systems. The
AUTO 215 Engine Performance/Tune-Up 5 Prerequisite: AUTO 130 2.0 minimum This course prepares technicians to enter the auto repair and service industry.	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)
Theory and fundamentals of basic engine tune-up procedures will be studied.	AVAF 125 Aircraft Systems II 6

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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 aircraft hydraulic and pneumatic systems and their related components. (Sp)

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AVAF 127 Aircraft Systems III

Prerequisite: Department Approval

Course covers the inspection, checking, troubleshooting, servicing and repair of aircraft heating, cooling, air-conditioning, pressurization, oxygen, ice and rain control and fire protection systems. (Su)

General engine diagnosis, introduction to computerized engine controls, ignition system diagnosis and repair, carburation and fuel injection, and examination of emission control systems will also be covered. (F, Sp)

AUTO 225 Automotive Computers

Prerequisite: AUTO 215 2.0 minimum

This advanced course in automotive computer systems is designed to train the student in theory and diagnosis of varying automotive engine computer control systems. The systems covered will include ignition, air induction, emission control, exhaust gas recirculation, exhaust gas treatment, intake air temperature control and early fuel evaporation. (F, Sp)

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Prereguialte: Department Approval

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AVAF 130	Avionics	Airframe	Applications	
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Prerequisite: Department Approval

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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 sheet metal and composite structures. (F)

AVAF 134 Aircraft Instruments

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 is included. (Su)

AVAF 208 Aircraft Structures I

Prerequisite: Department Approval

This course introduces the procedures for identification, inspection, testing and repairing of wood, fabric-covered and sheet metal aircraft. The installation and removal of conventional rivets, forming of aircraft sheet metal, installation of special rivets and fasteners, and an introduction to applying finishing materials will also be covered. (Sp)

AVAF 209 Aircraft Structures II

Prerequisite: Department Approval

Covers assembly and rigging of fixed wing and rotary wing aircraft control structures. Provides practical application in removal, installation and adjustment of flight controls by balancing, cable tension and motion studies. Aircraft inspection procedures to insure conformity with flight safety standards will be included. (F)

AVAF 210 Aircraft Structures III

Prerequisite: Department Approval

An advanced course covering inspection, repair, layout, bending and assembly of aircraft sheet metal. Inspection, testing and repair of fiberglass, plastics, honeycomb, composite and laminated structures are practiced. Installation and removal of special fasteners for bonded and composite structures and servicing of aircraft windows, doors and interior furnishings is included. (F, Sp)

AVAF 211 Aircraft Electrical I

Prerequisite: Department Approval

An intermediate aviation electrical course concentrating on theory, calculation and measurement of A.C. electrical systems. Includes reading and interpreting aircraft electrical circuit diagrams, including those with solid-state devices and logic functions. The installation, checking and servicing of airframe and engine wiring, controls, switches, indicators and protective devices are also covered. (Sp, Su)

AVAF 212 Aircraft Electrical II

Prerequisite: Department Approval

Repair of airframe and engine electrical system components with an emphasis on the inspection, checking, servicing and repair of alternating and direct current systems. General troubleshooting techniques are practiced with special emphasis on A.C. and D.C. electrical systems. (Su)

AVAF 246 National Airframe Cert Proced

Prerequisite: Department Approval

Study of the Federal Aviation Regulations pertaining to national certification as a licensed airframe mechanic, includes testing in all required areas of study as a prerequisite to receiving authorization to take the general and airframe national certification test administered by representatives of the Federal Aviation Administration. (F)

AVEL - AVIATION ELECTRONICS

AVEL 130 Avionics Installations

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 in soldering, aircraft wiring diagram reading, standard procedures and weight and balance calculation. (F)

AVEL 150 Avionics Installat/Generat

Prerequisite: ELCT 110 2.0 minimum

Co-requisite Course: AVEL 151

Covers the operational characteristics and operation of basic and specialized test equipment found in the avionics industry. Students will develop reading skills in aircraft wiring diagram and weight and balance calculation. Equipment covered includes multimeters, oscilloscopes, power supplies, multifunction test generators, wattmeters, time domain reflectometers and spectrum analyzers. (Sp)

AVEL 151 Avionics Installat/Generat Lab

Prerequisite: ELCT 110 2.0 minimum

Co-requisite Course: AVEL 150

Subjects covered in AVEL 150 will be put to practical use in this laboratory. The student builds and calibrates his/her own 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)

AVEL 190 Receiver Troubleshooting

Prerequisite: AVEL 151 2.0 minimum and ELCT 112 2.0 minimum

Co-requisite Course: AVEL 191

Familiarization with basic superhetrodyne receiver principles and operation using block diagrams and component level theory. Various logical troubleshooting techniques are discussed, (Su)

AVEL 191 Receiver Troubleshooting Lab

Prerequisite: AVEL 151 2.0 minimum and ELCT 112 2.0 minimum

Co-requisite Course: AVEL 190

Familiarization with basic superhetrodyne receiver principles and operation. Various logical troubleshooting techniques will be put to practical use in the laboratory. Students construct, align and troubleshoot an AM superhetrodyne receiver. (Su)

AVEL 200 Flight Line Testing

Prerequisite: Department Approval

A study of the avionics systems found aboard modern aircraft focusing on the flight line testing of such systems as VHF communications, VHF navigation, ADF, radar, autopilots and others. (F. Su)

AVEL 201 Flight Line Testing Lab

Prerequisite: AVEL 151 2.0 minimum

A practical study of the electronics systems found aboard modern aircraft, focusing on the flight line testing of such systems as VHF communications, VHF nevigation, ADF, radar, autopilots and others. (F, Su)

AVEL 220 Avionics Systems I

Prerequisite: AVEL 190 2.0 minimum and AVEL 200 2.0 minimum Restriction: Avionics Majors

Co-requisite Course: AVEL 221

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 certifications for the repair of various systems. (F)

AVEL 221 Avionics Systems I Lab

Prerequisite: AVEL 201 2.0 minimum Restriction: Avionics Majors

Co-requisite Course: AVEL 220

A hands-on study of the communications, navigation and other systems found in modern aircraft, focusing on component level repair and testing to manufacturer's specifications. (F)

AVEL 225 Avionics Licensing/Regulations

Prerequisite: ELCT 112 2.0 minimum

Federal Communication Commission rules and regulations are discussed as they pertain to the avionics technician. Elements 1 and 3 of the FCC General Radiotelephone Operator's License examination are presented to prepare the student for successful completion of the actual examination. (F)

AVEL 226 FAA Rules/Regs Avionics Techs

Prerequisite: AVAF 130 2.0 minimum

This course covers various Federal Aviation Administration rules and regulations as they pertain to avionics shop operations and the avionics technician. (F)

AVEL 230 Avionics Systems II

Prerequisite: AVEL 190 2.0 minimum and AVEL 200 2.0 minimum Restriction: Avionics Majors

Co-requisite Course: AVEL 231

A study of navigation, microwave pulse equipment and other systems found in modern aircraft, focusing on component level repair and testing to manufacturers' specifications. Students will have the opportunity to obtain factory certification of the repair of various systems. (Sp)

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AVEL 231 Avionics Systems II Lab

Prerequisite: AVEL 201 2.0 minimum Restriction: Avionics Majors

Co-requisite Course: AVEL 230

A hands-on study of navigation, microwave pulse equipment and other systems found in modern aircraft, focusing on component level repair and testing to manufacturers' specifications. (Sp)

AVEL 297 Avionics Internship

Prerequisite: AVEL 151 2.0 minimum

Restriction: Avionics and Avionics Installation Majors

Minimum 128 hours per semester as an aviation electronics intern. Part-time occupational internship in avionics technology. The internships will be at certified repair stations as established by the intern coordinator. (Su)

AVEL 299 Advanced Avionics Laboratory

Prerequisite: AVEL 151 2.0 minimum

Restriction: Avionics and Avionics Installation Majors

Students will further develop troubleshooting and installation skills acquired in other courses. Students will work in an environment close to actual working conditions in most avionics repair stations. (Su)

AVET - AVIATION FLIGHT TRAINING AVFT 201 Flight Training I 7.5 Prerequisite: Department Approval Provides in-flight and ground training in a single-engine, non-complex aircraft culminating in aeronautical knowledge, experience and skill in accordance with the Federal Aviation Administration Private Pilot Practical Test standards. (F, Sp) AVFT 202 Flight Training II 5 Prerequisite: Department Approval Provides in-flight and ground training in a single-engine, non-complex airplane, developing the student's instrument, night and cross-country flying skills. (F, Sp, Su) AVFT 203 Flight Training III 5.5 Prerequisite: Department Approval Provides instruction in a complex, single-engine airplane; developing the student's skill at IFR navigation and ATC procedures in en route and terminal environments. (F. Sp. Su) AVFT 204 Flight Training IV 5 Prerequisite: Department Approval Provides in-flight and ground instruction in a complex airplane; developing student skills in IFR navigation and ATC procedures in en route and terminal environments. Students will develop skills at performing commercial proficiency flight maneuvers. Upon completion of this course, the student will take the practical test for commercial/instrument pilot airplane. (F, Sp, Su) AVFT 205 CFI Flight Training 3.5 Prerequisite: Department Approval Provides in-flight and ground training in common primary training and complex airplanes. The student will develop instructional skills necessary to train pliots for

planes. The student will develop instructional skills necessary to train pilots for certification in accordance with Federal Aviation Regulations. The student will take his/her practical test for Certified Flight Instructor Airplane upon completion. (F, Sp, Su)

AVFT 206 Flight Inst Instrument Flight

Prereguisite: Department Approval

Provides in-flight and ground training in a non-complex aircraft. The student will develop instructional skills necessary to train pilots for the instrument rating. The student will take the practical test for the instrument flight instructor rating airplane upon completion of this course. (F, Sp, Su)

AVFT 207 Multi-Engine Flight Training 1.5

Prerequisite: Department Approval Provides in-flight and ground instruction in a multi-engine airplane. The student will take the multi-engine practical test upon completion of this course. (F, Sp, Su)

AVFT 208 Multi-Engine Instructor Flight

Prerequisite: Department Approval

Provides in-flight and ground instruction in a multi-engine airplane. The student will develop instructional skills necessary to train students for the multi-engine practical test. The student will take the multi-engine instructor practical test upon completion of this course. (F, Sp, Su)

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AVGM - AVIATION GENERAL MAINTENANCE

AVGM 111 Aviation General I

Prerequisite: Department Approval

This course is designed to develop the skills and knowledge required to weigh an aircraft and record the appropriate data. It involves mathematical and basic physics principles related to aviation, including aerodynamics, theory of flight, aircraft structural design and simple machines. (F, Sp)

AVGM 112 Aviation General II

Prerequisite: Department Approval

Introduces the Federal Aviation Regulations involving the mechanic's privileges, limitations and related aviation operations. Includes the selection and use of aviation publications, maintenance forms, records, reports, aircraft drawings, graphs and charts, symbols, blueprints and system schematics. Also focuses on aircraft ground operations and servicing of related aircraft systems. (F, Sp)

AVGM 113 Aviation General III

Prerequisite: Department Approval

This initial aviation electrical course offers instruction in basic electrical theory and its aviation application. It includes the calculation and measurement of voltage, current resistance, continuity and power; and the theory, inspection and servicing of aircraft lead-acid and ni-cad batteries; and the construction of a volt-ohm meter. (F, Sp)

AVGM 114 Material and Processes

Prereguisite: Department Approval

This course covers identification and selection of the appropriate aviation hardware, hand tools, cleaning materials, fluid lines and non-destructive testing methods. Performance of non-destructive testing, precision measurements, aircraft cleaning and corrosion control, fabrication, installation and testing of fluid lines is included. (F, Sp)

AVGS - AVIATION GROUND SCHOOL

AVGS 101 Private Pilot Ground School

Prerequisite: None

Recommended: SDEV 124

This course prepares the student for successful completion of the Federal Aviation Administration private pilot written examination. The student will learn basic aerodynamic theory, principles of aircraft/powerplant operation and performance, Federal Aviation Regulations, air traffic control procedures, meteorology, navigation and flight physiology. (F, Sp, Su)

AVGS 121 Aviation Meteorology

Prerequisite: None

Recommended: SDEV 124

This course focuses on the application of meteorological theory to the practical aspects of flight planning. The student will understand basic concepts of weather theory, obtain weather briefings by using a personal computer, interpret domestic and international weather charts, forecasts and reports,(ICAO) and make appropriate "go/no go" decisions. (Sp)

AVGS 211 Instrument Pilot Ground School

Prerequisite: None

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Recommended: AVGS 121 and SDEV 124

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 en route, approach, SID and STAR charts for navigation; air traffic control procedures and meteorology as it applies to the instrument pilot. (F, Sp, Su)

AVGS 221 Commercial Pilot Ground School

Prerequisite: None

Recommended: AVGS 121 and SDEV 124 This course prepares the student for the successful completion of the FAA commercial pilot written examination. The student will develop knowledge of aerodynamics, high performance aircraft systems, aircraft performance, Federal Aviation Regulations, navigation and flight planning, and meteorology as it applies to commercial pilots. (F)

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AVGS 222 Flight Instruct Ground School Prerequisite: None

Recommended: AVGS 121

This course will prepare the student for the successful completion of the FAA Fundamentals of Instructing and the Flight Instructor-Airplane and Advanced Ground Instructor written exams. The student will develop a flight training syllabus with lesson plans for use in training pilots. (Sp)

AVIR - AVIATION INSTRUMENT REPAIR

AVIR 140 Avionics Instruments I

Prereguisite: None

Familiarization with common aircraft instruments to include principles of operation, interpretation of indications, testing, proper handling, repair and calibration. Students will learn the proper use of test equipment and instrument repair procedures. (F)

AVPP - AVIATION POWERPLANT MAINTENANCE

AVPP 185 Preventive Maintenance

Prerequisite: Department Approval

This course covers items described in the Federal Aviation Regulation Part 43, Appendix A, titled Preventive Maintenance. These items include the removal and installation of tires, servicing of wheel bearings and cleaning fuel and oil strainers or filter elements. Safety, responsibility and operations of various aircraft systems will be discussed. (F, Sp, Su)

AVPP 241 Reciprocating Engine

Prerequisite: Department Approval

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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)

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

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

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)

ÀVPP 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 I

Prerequisite: None

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, Simulator used is GAT-I (or other approved simulator). (F, Sp, Su)

AVST 212 Flight Simulator It

Prerequisite: None

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. Simulator used is GAT-I (or other approved simulator). (F, Sp, Su)

AVST 213 Flight Simulator III

Prerequisite: None

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. Simulator used is GAT-I (or other approved simulator). (F, Sp, Su)

AVST 214 Flight Simulator IV

Prerequisite: None

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. Simulator used is GAT-I (or other approved simulator). (F, Sp, Su)

AVST 215 Multi-Engine Flight Simulator

Prerequisite: None

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)

BOCS - 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)

BDCS 202 Pitfls to Avd: Open/Operate 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 ior!* 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)

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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)

BDCS 210 Customer Relations

Prerequisite: None

Anyone who sells, greets, or provides services to customers can discover new 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

Prerequisite: 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 .5

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)

BDCS 230 Small Business Taxes

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)

BIOLEBIOLOGY

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 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: Chemistry

Topics include organic molecules, biological molecules, enzymes, metabolism, cell structure and function, passage of materials across membranes, harvesting energy, mitosis, meiosis, introductory genetics, and the relationship between DNA, RNA, and protein synthesis. Recommended prerequisite for PHGY 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; blochemistry of respiration and photosynthesis; and genetics and the regulation of gene expression. Laboratory stresses techniques of cell and molecular biology as well as genetics. (F, Sp, Su)

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BIOL 128 Organismal Biology

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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 enalyze a local river. (F, Sp, Su)

BIOL 210 Natural Resource Conservation

Prerequisite: Reading Level 5 and Writing Level 6

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 260 Botany

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: One Semester of 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: Biology

Begins with an introduction to heredity, population genetics, the theory of evolution, and ecology. Deals principally with the taxonomy and comparative anatomy of members found within the major animal phyla. A phylogenetic approach is used to study the various animal phyla from Protozoa through Chordata. (Sp)

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 5 Recommended: BIOL 121 or Equivalent

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 technol-

BIOL 275 Molecular Biology I

Prerequisite: BIOL 127 2.0 minimum and CHEM 151 2.0 minimum and CHEM 161 2.0 minimum and Reading Level 5 and Writing

introduces basic 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 both bacterial and plasmid DNA, restriction enzyme digests of DNA, and agarose get electrophoresis analysis of DNA. Field trip to research laboratories. (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. (Sp)

BIOL 285 Biology in the Tropics

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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 campus will culminate with a ten day visit to various ecosystems in Costa Rica. Individual projects emphasizing evolutionary and ecological concepts will be conducted in the field. (Sp)

BLDR BUILDING RELATED

BLDR 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, Su)

Level 6 and Math Level 4

ogy, and genetic screening and counseling. (Sp) .75

BIOL 270 Human Genetics

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BLDR 110 Wood Projects

Prerequisite: None

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 132 General Home Maintenance

Prerequisite: None

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 blocklaying. (F, Sp, Su)

BLDR 144 Build Your Own Home

Prerequisite: None

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

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 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 between 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 covering projects. (Sp)

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 cabinats. (F)

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 International Code

Prerequisite: None

Students will be introduced to the International Building Code. This course will emphasize the interpretation and application of the International 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. (E. Sp)

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)

BLDT 298 Builder's License Review

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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 interest. Minimum of 16 hours work per credit required, plus completion of written project report. (F, Sp, Su)

BUSN 201	International Business	3

Prereguisite: 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 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)

BUSN 250 Personal Finance

Prereguisite: 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 Merket Essentials

Prerequisite: None

Study of securities market to give framework with which to set investment 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)

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BUSN 254 Introduction to Investments 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 255 Advanced Investments

Prerequisite: None

Recommended: BUSN 254

Students will use their knowledge of investment options to develop and implement a personal investment strategy. Investment objectives and influencing factors will be examined. (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 Seminar: Special Subjects

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

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)

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 104 Skillbuilding for Computers

Prerequisite: None

Recommended: Previous Keyboarding

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)

CABS 110 Microsoft Office

Prerequisite: None

Recommended: Windows 95 and Keyboard Experience

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 113 Microsoft Word Office/Int Key

Prerequisite: None

Recommended: Typing Minimum 35 wpm

In addition to building speed and accuracy on the computer, this course is designed to develop a basic word processing skill on the microcomputer using Microsoft Word software for the rapid production, revision, and retrieval of routine business documents such as letters, envelopes, memorandums, tables, reports, short manuscripts, and repetitive correspondence. (F, Sp, Su)

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CABS 118 Adv Microsoft Word for Office

Prerequisite: None

Recommended: CABS 113 2.0 minimum or Equivalent In addition to building speed and accuracy on the computer, this course is

designed to develop advanced word processing skill using Microsoft Word software for the rapid production, revision, and retrieval of medical and legal documents, manuscripts and reports, and business publications. (F, Sp)

CABS 119 Word for Windows

Prerequisite: None

Recommended: Windows 95 and Keyboard Experience

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 performing mail merge and creating tables, (F, Sp)

CABS 121 WordPerfect for Windows 2

Prerequisite: None

Recommended: Windows 95 and Keyboard Experience

Provides instruction in the use of WordPerfect for Windows. Topics include creating, editing, formatting, and storing word processing documents. Also taught are the use of the block technique, spell-checker, thesaurus, merge feature for form letters, and other related skills. (F, Sp, Su)

CABS 126 Excel

Prerequisite: None

Recommended: Windows 95 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. (F, Sp, Su)

CABS 128 Lotus 1-2-3 for Windows

Prerequisite: None

Recommended: Windows 95 and Keyboard Experience Provides an introduction to the spreadsheet program Lotus 1-2-3 for Windows. Students develop a working knowledge of the program and the ability to apply Lotus to routine business problems through hands-on activities. Topics include creating, modifying and enhancing a worksheet; graphing information; using data-

CABS 129 Excel - Advanced

Prereguisite: None

Recommended: CABS 126

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. (F, Sp, Su)

CABS 133 Microsoft Access Database

Prerequisite: None

Recommended: Windows 95 and Keyboard Experience

bases; creating macros; and using multiple worksheets. (F, Sp)

This course is designed for the person who uses an existing Microsoft Access database or who needs to develop a simple database application with Access. Students learn how to create database structures, enter and edit data, find data, and prepare printed reports. (F)

CABS 180 Desktop Publishing PageMaker

Prerequisite: None

Recommended: Windows 95 and Keyboard Experience

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/Windows

Prerequisite: None

Recommended: Windows 95 and Keyboard Experience

MS PowerPoint for Windows is designed to give your computer the capabilities for desktop presentations. The user will learn to plan, compose, and create complete presentations. MS PowerPoint makes it easy for the individual to present professional, high quality presentations. (F, Sp, Su)

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CABS 195 Microsoft Windows

Prerequisite: None

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 98). (F. Sp. Su)

CABS 210 Advanced Microsoft Office

Prerequisite: None

Recommended: CABS 110

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, Su)

CABS 219 Advanced Microsoft Word

Prerequisite: None

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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. (F, Sp, Su)

CABS 232 Advanced Microsoft Access

Prerequisite: CABS 133 2.0 minimum

Advanced-level training in the creation of database management using the Microsoft Access Program. The instruction includes the manipulation and generation of reports and tables. (F, Sp)

CABS 234 Programming Microsoft Access

Prerequisite: None

Recommended: CABS 133 and CABS 232 and CISB 119

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, queries, forms and reports, but now wants to learn how to program with Visual Basic for Applications to endow application with a professional and intellicent interface. (F. Sp. S)

CABS 282 Advanced Microsoft PowerPoint

Prerequisite: CABS 182 2.0 minimum

A sequel to CABS 182, this course provides advanced level training using Microsoft PowerPoint. Students will design and present professional high quality presentations. Emphasis will be placed on planning and making color changes, importing, applying group/ungroup, and integrating sound and movie clips into Microsoft PowerPoint, (F, Sp, Su)

CHCE - CONTINUING HEALTH CAREERS

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 1.75-2.5

Prerecuisite: 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 185 Lab Tests for Nurses

Prereguisite: 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 205 Intravenous Therapy

Prerequisite: None

This workshop will provide the most recent information on a variety of topics relating to intravenous therapy. Content can range from basic principles to advanced high-tech therapy. This seminar is designed for professional members of the health care team who routinely deal with IV therapy. (F, Sp)

CHCE 206 Hith Care Pro Indpndnt Study .25-4

Prerequisite: None

This course is for health care professionals who need to acquire credits in continuing professional education. The individual student will provide specific course content and description. This information is often provided by the specific profession. A instructor will be identified to assist with the learning experience. (F, Sp, Su)

CHCE 210 PALS Training

Prerequisite: None

This seminar is designed for members of the health care team who work with pediatric patients. A combination of lecture and practica 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. (F, Sp)

CHCE 211 PALS Refresher

Prerequisite: None

This seminar is designed to recertify, according to the American Heart Association (AHA) standards, those professionals currently possessing valid Pediatric Advanced Life Support (PALS) certification cards. Upon successful recertification, the AHA will issue each student a new PALS certification card. Prior assigned readings are mandatory. (F, Sp)

CHCE 227	Health Related Seminars	-	.25-4

Seminar content is dependent upon course requirement. (F, Sp, Su)

CHCE 230 ACLS Training Seminar

Prerequisite: None

Prerequisite: None

This seminar is designed for members of the health care team to davelop 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. Pre-preparation mandatory. (F, Sp, Su)

CHCE 235 ACLS Refresher

Prerequisite: None

This seminar is designed to recertify, according to the American Heart Association standards, those individuals currently possessing valid Advanced Cardiac Life Support (ACLS) 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 266 Focal Problems: Geriatric Nsg .25-1.5

Prerequisite: None

This specialty course is designed for nurses working with the elderly client in any setting. Common, serious conditions are studied using physical assessment data to identify and document the problem. An overview of normal physical and physiologic changes in the aging client is the framework used to assess abnormal developments. (F, Sp)

CHCE 273 Reg Nurse Crit Cr Core Curr

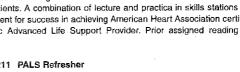
Prerequisite: None

A course for registered nurses practicing in critical care, preparing to work in critical care and/or considering taking the certification exam. Emphasis placed on the CCRN core course content which includes anatomy and physiology, pathophysiology of selected common conditions, related nursing interventions, and medical management. (F, Sp)

CHCE 287 Health Care Risk Managment

Prerequisite: None

This course covers the healthcare system and management functions necessary to control risk and promote quality, the skills necessary to develop and maintain an effective loss prevention and risk financing program in a healthcare setting. healthcare law, the medical malpractice arena, and claims management principles. (Sp)



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CHCE 288 Rsk & Qual Mgmt/Hith Care Set .25-2.5 Prerequisite: None

This course covers the integration of risk and quality management in an evolving healthcare delivery system; the role of accreditation ((JCAHO) and thirdparty payor (MPRO) bodies in the review of physician practice and patient care, quality and peer review processes, medical staff governance, credentialing, privileging, quality/risk issues in high risk clinical areas, future of risk and quality management, adapting to new technology, delivery models, and customer expectations. (F)

CHCE 295	Hith Cr Ask Mt & Qity Rv/Sp is	.5

Prerequisite: None

This seminar will highlight a specially selected issue and examine how that issue impacts health care risk management and quality review. (Su)

Prerequisite: None

This seminar will be held yearly for graduates of the Health Care Risk Management and Ouality Review program to update their risk management skills and review new issues in loss prevention and quality review. (F)

CHCE 299 ACLS Instructor Seminar 2

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 their ACLS skills at the time of the course, Prior assigned readings are mandatory. (F, Sp, Su)

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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

Prerequisite: 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, Su)

CHDV 113 Health/Safety Issue:Child Care

Prerequisite: None

This course examines health and safety issues in child care homes and centers. Topics include understanding and preventing communicable illnesses, bloodborne pathogens, safe 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

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)

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CHDV 121 Curriculum: Cognitive/Lang

Prerequisite: None

This course examines curriculum and activities which enhance cognitive and language development of children in early childhood programs. It focuses on designing developmentally appropriate activities which foster curiosity and exploration, Topics include math, science, language arts, and emergent literacy. CDA functional areas: cognitive and communication. Uses seminar format. (Sp)

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 developmantally appropriate and open-ended activities in the areas of art, music, creative, and dramatic play with a variety of meterials are shared. CDA functional area; creative, Uses seminar format. (Su)

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. (F, Sp, Su)

CHDV 131 Family Child Care Management

Prerequisite: 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 Problem Solving with Adults

Prerequisite: None

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Recommended: Experience in Child Care

This course examines the child care provider's use of decision-making and problem-solving skills in challenging situations. Communication skills, values; priorities and conflict resolution will be introduced and practiced. 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 end 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

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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-esteem. CDA functional area: self, guidance. Seminar format is used. (F, Su)

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)

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CHDV 189 Help Children Value Diversity

Prerequisite: None

This course explores the various cultural groups and family structures that children encounter. It presents activities that caregivers can use to aid children in recognizing, valuing, and respecting diversity. Development of multi-cultural and antibias curriculum is emphasized. Seminar format is used. (F)

CHDV 190 Child Care Seminars .25--1

Prerequisite: None

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This course provides a variety of topics of special interest to child care providers. (F, Sp)

CHDV 220 Preschool Curric/Learning Env

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 appropriate learning environments, materials and equipment, and children's learning objectives. CDA functional areas: learning environment; creative, physical, cognitive, and communication. (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)

CHDV 230 Child Care Center Admin

Prereguisite: CHDV 220 2.5 minimum

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, program management, professionalism. (Sp)

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

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. (Sp)

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. (F, 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. (F, Sp)

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 stoichiometry, 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 4 Recommended: Chemistry Inventory

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: 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, acid-base balance, hormones, and nutrition. (Sp, Su)

CHEM 135 Chemistry in Society

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Prerequisite: Reading Level 5 and Writing Level 4 and Math Level 4 A general education course which presents chemistry 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)

CHEM 151 General Chemistry Lecture I

Prerequisite: Reading Level 5 and Writing Level 4 and Math Level 5 Recommended: CHEM 125 2.0 minimum or High School Chemistry

The first of two semester courses designed to provide an in-depth introduction to general chemistry for students who plan careers in the health pagessions, 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: Math Level 6

Recommended: CHEM 151 and MATH 121 2.0 minimum 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)

CHEM 161 General Chemistry Lab I

Prerequisite: CHEM 151 2.0 minimum or Concurrently and Reading Level 5 and Writing Level 4 and Math Level 5

Recommended: Students with CHEM 125, consult Department 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 Leb II

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Prerequisite: None

Recommended: CHEM 161 2.0 minimum and CHEM 152 Concurrently 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: None

Recommended: CHEM 125 3.0 minimum or 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)

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CHEM 192 Intro Organic Chemistry Lab

Prerequisite: None

Recommended: CHEM 182 2.0 minimum or Concurrently

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 251 Organic Chemistry Lecture I

Prerequisite: None

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: None

Recommended: 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

Prerequisite: CHEM 152 2.0 minimum end CHEM 162 2.0 minimum 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. (F)

CHEM 272 Organic Chemistry Laboratory

Prerequisite: CHEM 251 2.0 minimum

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 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 acute care delivery setting. The course will provide the knowledge and skills needed in order to provide safe basic patient care. (F, Sp, Su)

CHSE 108 Long-term Care Nurse Aide

Prerequisite: None

This course will prepare an individual to be a nurse aide in a long-term care facilily 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 109 Advanced Acute Care Nr Assist

Prerequisite: CHSE 101 2.0 minimum or CHSE 108 2.0 minimum

This course will prepare an individual for employment as an advanced acute care nursing assistant in an acute care hospital, long-term care facility, or home health care. The course will provide the knowledge and skills needed to perform patient care safely as a skilled nursing assistant. (F, Sp, Su)

CHSE 121 Medical Term Allied Health I 2.5

Prerequisite: Reading Level 5 and Writing Level 4

Medical Terminology I will provide a basic knowledge of word building, use, pronunciation, and spelling of medical terms. The use of medical terms in periodicals, textbooks, and medical care areas will be stressed. It provides a sound basis for those students interested in health careers. (F, Sp, Su)

CHSE 122 Medical Term Allied Health II

Prerequisite: CHSE 121 2.5 minimum

Medical Terminology II will teach the student to utilize medical terminology in context by applying terms to the function and structure of body systems and specific disease conditions. Students will build on knowledge learned in Medical Terminology I. (F, Sp)

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CHSE 123 Medical Insurance Billing I

Prerequisite: CHSE 121.2.5 minimum or OADM 197.2.5 minimum First course in a two-semester sequence which introduces the student to insurance billing, diagnostic and procedure coding for physician billing, and comprehensive billing directions for Medicare. The student must have a grade of 2.5, or better, to continue with Medical Insurence Billing II. (F)

CHSE 124 Medical Insurance Billing II

Prerequisite: CHSE 123 2.5 minimum (previously CHSE 111)

Second course in a two-semester sequence. Comprehensive billing directions for Medicare, Medicaid, PHP, and other commercial insurance carriers for billing in the physician's office are covered. (Sp)

CHSE 125 Computers in Medical Office

Prerequisite: (CHSE 123 2.5 minimum (previously CHSE 111) or

CHSE 124 2.5 minimum (previously CHSE 112)) 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 126 Med Term for Insure Examiners

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Prerequisite: None

Medical terminology is a technically exact vocabulary used by professionals to speak and write precisely. This medical terminology course is designed for insurance examiners and insurance medical technicians. The use of medical terms in records and specific medical areas will be stressed. (F, Sp, Su)

CHSE 132 Health Unit Coordinator

Prereguisite: 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 fecture, campus, and clinical laboratory. (F, Sp)

CHSE 145 Central Service Technician 1

Prerequisite: None

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 which will prepare students for a career as a dietary manager. The course will include both classroom and field experience. Topics such as the role of the supervisor, quality assurance, and nutritional principles will be included. (F)

CHSE 202 Dietary Manager II

Prereguisite: CHSE 201 2.5 minimum

The second course in a three-semester sequence which will prepare students for a career as a dietary manager. This course will include both classroom and field experience. Content includes the purchasing process, sanitation principles, governmental laws as they apply to food service, and other required content to become a dietary manager. (Sp)

CHSE 205 Advanced Dietary Therapy

Prerequisite: CHSE 202 2.5 minimum

The third course in a three-semester sequence which is designed to provide advanced knowledge of diet therapy and nutritional care for dietary managers. The course will include knowledge of disease states, as well as laboratory data and nutritional assessment techniques as they relate to providing adequate nutritional care to patients. (Su)

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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: None

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This course provides an introduction to computers, their role in managing business information systems, their influence on society, and their use in personal productivity. A hands-on introduction to major microcomputer tools, including Windows word processing, spreadsheet, and database management applications. (F, Sp, Su)

CISB 102 Internet Literacy

Prerequisite: None

Recommended: Windows Familiarity

Designed to explore the potential uses of the Internet for business, students will develop hands-on assignments. This includes the use of e-mail, search engines, and others including the Internet applications and development of a web page. The course also discusses the rapidly changing world of the Internet including current software, trends and societal issues. (F, Sp, Su)

CISB 104 Introduction to DOS

Prerequisite: None

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: None

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: None

An introduction to programming logic which includes an introduction to structured design; programming control structures; arrays; object-oriented programming concepts; file update; and control break processing. Flowcharts and the Warnier-Orr diagram are used for logic diagramming. Coding examples and problems are covered are studied using OBASIC and Visual BASIC. (F, Sp, Su)

CISB 119 Intro Window Prog Visual BASIC

Prerequisite: None

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)

CISB 122 Adv Windows Prog Visual BASIC

Prerequisite: None

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. (F, Sp)

CISB 130 Data Communications

Prerequisite: None

Recommended: CISB 100 and (CISB 114 or CISB 119 or CISB 120) The course provides a comprehensive introduction to data communications systems: the major components, how they are integrated, and the differences between the various networks and network carriers. Students learn the terminology and major protocols to a level adequate to design application programs and discuss data communication topics with other professionals. (F, Sp, Su)

CISB 133 Operating Systems

Prerequisite: None

Recommended: CISB 100 and (CISB 114 or CISB 119 or CISB 120) 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 136 SQL: Structured Query Language

Prereguisite: None

Recommended: Windows Familiarity

This course covers the relational database language SQL. Topics include table definition, queries, special operators, the join operation, views, security, administration, and reports. A commercial SQL product is used to provide students with hands-on experience. (F, Sp, Su)

CISB 141 Powerbuilder 3

Prerequisite: None

Recommended: CISB 119 and CISB 136

This course teaches the student how to program with PowerBuilder. Upon completion of this course, the student should be able to create a client-server application using PowerBuilder. Topics will include accessing a database, modifying and inserting data, and constructing an attractive graphical user interface including windows, menus, command buttons, etc. (F, Sp)

CISB 143 ORACLE Database for Business

Prerequisite: None

Recommended: Windows Familiarity and CISB 136 or CABS 136 or Equivalent This course introduces the student to the features and utilities of the Oracle relational database system as used in business. Among the topics included are datatypes, tables, indexes, views, snapshots, cursors, data integrity, triggers, stored procedures, and database security. Tuning Oracle applications are also covered. (F. Sp. Su)

CISB 145 Operations Internship 1

Prerequisite: Department Approval

This internship provides the student with on-the-job experience as a computer operator. The student may take the second internship concurrently with the first at a different site. This internship requires 150 hours of experience. (F. Sp. Su)

CISB 146 Operations Internship 2

Prerequisite: CISB 145 2.0 minimum

This internship provides the student with on-the-job experience as a computer operator. The student may take the first internship concurrently with the second at a different site. This internship requires 150 hours of experience. (F, Sp, Su)

CISB 151 Using Lotus Notes

Prerequisite: None

Recommended: Windows Familiarity

This course introduces the student to groupware using Lotus Notes. Included are the use of e-mail, name and address books, shared databases, tables, calendar and scheduling, mobile computing, and World Wide Web Interface. Students use Lotus Notes as the learning tool both in the classroom and to complete course assignments. (F, Sp, Su)

CISB 152 Developing Lotus Notes Appl

Prerequisite: None

Recommended: CISB 151 or Equivalent

A sequel to CISB 151, this course covers the creation of Lotus Notes applications. It includes the use of the development tools provided by Lotus Notes and strategies for developing application databases. Topics include the Lotus Notes editors, macros, user access, installing and maintaining a Lotus Notes database, and use of Lotus Notes on the World Wide Web. (F, Sp. Su)

CISB 170 COBOL I

Prerequisite: None

Recommended: CISB 100 and (CISB 114 or CISB 120)

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)

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CISB 180-CISB 280

Prerequisite: None

allocation. (F, Sp)

Prerequisite: None

CISB 180 Intro to C/C++ Program for Bus

CISB 200 Info Sys Tech/Problem Solving

CISB 204 Commercial Internet Site Mgmt

Prerequisite: Reading Level 5

Recommended: CISB 100 and (CISB 114 or CISB 120)

Students will use professional development tools to become familiar with the C

programming language by designing, implementing, and testing programming pro-

jects. Topics include pointers, linked lists, data structures, and dynamic memory

Fundamental changes have occurred in organizations with the application of com-

puter technology. This course chronicles the source of that technology in science,

explores the limitations of computer technology, examines the impact of the tech-

nology in business organizations and society, and develops problem-solving tech-

niques for use in conjunction with computers. Students will work in teams, make

group presentations and apply continuous improvement methods. (F, Sp, Su)

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CISB 236 Microcomputer Software Support Prereguisite: None

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 frequently encounter in using software. The course covers installing operating systems, installing and upgrading applications, memory optimization, printer fonts, printer emulation, remote site support, telephone support, and software training, (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: None

Recommended: CISB 100 and (CISB 114 or CISB 119 or CISB 120) 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 253 WWW Interactive Programming

Prerequisite: None

Recommended: (CISB 119 or Equivalent) and CISB 258

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. (F, Sp)

CISB 258 Developing Pages for the Web

Prerequisite: None

Recommended: CISB 102 or Equivalent

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 260 Systems Analysis and Design

Prerequisite: None

Recommended: CISB 100 and (CISB 114 or CISB 119 or CISB 120) This course presents concepts and techniques used in 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)

CISB 270	COBOL 11			
Prerequisit	e: None		•	
Recommen	ided: CISB 170			
An advance	d COBOL course (covering indexed f	ile creation and	updating, sub-

Aπ program concepts, and writing interactive programs. Copy libraries are used, and a system of related programs is completed as a class project. (F, Sp)

CISB 280 Adv C/C++ Program with OOP

Prerequisite: None

Recommended: CISB 180

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)

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 3

Prerequisite: None

Recommended: CISB 130 and CISB 133

The student in this course learns how to install and maintain a Local Area Network (LAN). Topics start with basic network concepts and terms, then advances students to a point where they can install and maintain a particular network system such as Novell, (F. Sp)

CISB 231 Advanced Local Area Networks

Prerequisite: None

Recommended: CISB 230 or Equivalent

The student in this course learns advanced administration techniques for a typical Local Area Network such as Novell NetWare. Topics start with an in-depth review of networking technology, then advance students to a point where they can tune a network to achieve maximum performance. (F. Sp)

setup of the hardware and software for server and client workstations. Students will set up and manage user accounts. Also covered are security management, access rights, permissions, and network devices. (F, Sp, Su)

CISB 234 Linux/UNIX Operating System

Prerequisite: None

This course provides hands-on training in the Linux/UNIX operating system. Students will learn to install, use, and administer a Linux/UNIX operating system including shell programming and user account management. Application software for Linux/UNIX operating systems will also be discussed. (F, Sp)

CISB 235 Microcomputer Hardware Support

Prerequisite: None

Recommended: CISB 100 and CISB 130 and CISB 133

This course provides the student with practical, hands-on experience in installing, maintaining, and trouble-shooting microcomputer hardware and software. Topics include CPU, storage devices, add-on boards, video displays, printers, communication devices, software installation, and configuration. (F, Sp)

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CISB 233 Microsoft Windows NT Server Prerequisite: None Recommended: CISB 230 or Equivalent

This course provides hands-on training in Microsoft Windows NT Server including

Recommended: CISB 130 and CISB 133

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Recommended: CISB 102 and/or CISB 258

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

CISB 281 - CJUS 130

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CISB 281 Visual C++ Programming

Prerequisite: None

Recommended: CISB 122

An introduction to the fundamentals of the modern usage of C++ as a control/linking program in the Windows environment. Emphasis will be placed on using existing classes and visual tools to rapidly create applications and linkages between applications. Students will learn to use object oriented techniques with a wide collection of existing C++ tools. (F, Sp)

CISB 283 Intro to JAVA Programming

Prerequisite: None

Recommended: CISB 102 and (CISB 119 or CISB 122)

This course introduces students to the essential elements of the Java Programming language. This course introduces students to object-oriented programming methodology and the features provided by the Java language. Students will create and modify simple Java applets. (F, Sp, Su)

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CIVL 101 Civil Drafting

Prerequisite: DTDS 100 2.5 minimum or Basic Drafting Test 70%

This course emphasizes traverse and topographical drawing problems. The course will equip the student with skills and line techniques, and the ability to prepare a clear, readable, graphical presentation from rough notes furnished by the survey

party (Sp)		-	
CIVL 115	Survey Fieldwork		

Prereguisite: None

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This course consists of fieldwork using surveying equipment and techniques related to construction projects such as cloth tape, drag chain, chaining pins, levels, level rods and transits. (F, Su)

CIVL 120 Surveying

Prerequisite: MATH 114 3.0 minimum or Math Level 4

Introduces basic surveying practices and procedures. The course consists of fieldwork involving the use of surveying equipment and procedures (cloth tape, drag chain, Dumpy level, automatic level, level rods, optical transit, laser level, electronic transit and Total Station) and basic computational techniques (chaining corrections, azimuths, bearings, coordinates and traverses), (F, Sp)

CIVL 124 Route Survey

Prereguisite: 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 lasers, total stations and data collectors. (F, Sp)

CIVL 131 Traffic Technology

Prerequisite: 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)

CIVL 132 Construction Materials

Prerequisite: MATH 114 3.0 minimum or Math Level 4

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. Comparison of building codes and construction specifications are covered. (Sp)

CIVL 135 Soils Technology

Prerequisite: MATH 114 3.0 minimum or Math Level 4

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. (Sp)

CIVL 136 Hydrology and Highway Tech

Prerequisite: CIVL 131 3.0 minimum and (MATH 114 3.0 minimum or Math Level 4) 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 4

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)

CIVI. 225 Independent Study/Civil

Prerequisite: None

Restriction: Civil Technology Majors Students are allowed to undertake special research projects to apply to their professional 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)

CJUS - CRIMINAL JUSTICE

CJUS 101 Intro to Criminal Justice

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 juvanile 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: CJUS 106 1.0 minimum or Concurrently

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 jalls. Differences in jail and prisons regarding operations and differing clienteles are also covered. (F, Sp)

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CJUS 131-CJUS 262

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Prerequisite: None

Hands-on techniques to prepare students to properly and effectively handle law enforcement related physical confrontations. Includes use of force decision-making skills, pressure points, control holds, and handcuffing. (F, Sp, Su)

CJUS 245 Report Writing in CJ

CJUS 242 Unarmed Defense

Prerequisite: (CJUS 101 1.0 minimum or CJUS 131 1.0 minimum) or Concurrently Designed to meet the needs of criminal justice writing. Components include grammar, punctuation, santences, paragraphs, styles of writing, and proper documentation of work effort. Frequent writing practice. (F, Sp, Su)

CJUS 246 Jail Safety and I.D. Issues

Prerequisite: (CJUS 130 1.0 minimum and CJUS 242 1.0 minimum) or Concurrently and Department Approval

This course introduces students to safety and identification issues in a jail setting. The course includes hands-on training in fire safety, fingerprinting, first aid and CPR, and legal defense techniques against spontaneous knife attacks. (F, Sp)

CJUS 250 Correctional Institutions

Prerequisite: CJUS 131 1.0 minimum or Concurrently

Examines the historical development of corrections institutions in the United 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)

CJUS 251 Correctional Clients

Prerequisite: (CJUS 130 1.0 minimum or CJUS 131 1.0 minimum) or Concurrently Emphasis is placed on the needs, identities and development of the recipient of 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 255 Human Relations/Criminal Just

Prerequisite: (CJUS 101 1.0 minimum or CJUS 130 1.0 minimum or

CJUS 131 1.0 minimum) or Concurrently and Reading Level 5 This course focuses on understanding those aspects of interpersonal relations 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 256 Interpersonal Comm in Jails

Prerequisite: CJUS 130 1.0 minimum and CJUS 255 1.0 minimum and Department Approval

This course introduces students to the IPC model developed specifically to work with prisoners. Three basic components of the model will be taught, including the primary components of sizing up a situation, observing an encounter, and using application skills to control behavior of prisoners. (F, Sp)

CJUS 260 Criminal Invest & Procedures

Prerequisite: None

Co-requisite Courses: CJUS 261 and CJUS 262 and CJUS 263 and CJUS 264 and CJUS 265 and CJUS 266 and CJUS 267 and CJUS 268 and PFFT 114

Designed for hands-on, practical instruction in the following areas: crime scene processing, on-scene preliminary investigation, witness interviewing, suspect identification, latent prints, photography, child abuse, sexual assault, narcotics, and preparation for court. (F, Sp, Su)

CJUS 261 Michigan Crim Law & Procedure

Prerequisite: None

Co-requisite Courses: CJUS 260 and CJUS 262 and CJUS 263 and CJUS 264 and CJUS 265 and CJUS 266 and CJUS 267 and CJUS 268 and PFFT 114

Designed for hands-on, practical instruction in criminal law and procedure as it pertains to law enforcement in the state of Michigan. Topics include crimes against persons and property, regulatory crimes, public order crimes, juvenile law, admissions/confessions, laws of arrest, search and seizure, and suspect identification. (F, Sp, Su)

CJUS 262 Patrol Procedures and Tactics

Prerequisite: None

Co-requisite Courses: CJUS 260 and CJUS 261 and CJUS 263 and CJUS 264 and CJUS 265 and CJUS 266 and CJUS 267 and CJUS 268 and PFFT 114

The course is designed to identify and utilize proper patrol techniques and procedures necessary for a police officer to function safely and effectively. Topics include preparation for patrol, types of patrol, responding to crimes in progress, roadblocks, civil process, handling abnormal persons, and officer survival. (F, Sp, Su)

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. (F, Sp, Su)

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, court decisions, and inmate rights. This course is required for the correctional officer vocational certificate. (F, Sp, Su)

CJUS 170 Emergency Dispatching I

Prerequisite: Reading Level 5 and Writing Level 4

This course has been designed to introduce the student to the history and role of the telecommunicator, equipment systems utilized in dispatching, the correct spelling of police/fire/medical terminology, stress management, legal issues, reference sources, emergency plans, history of police/fire/EMS services, and hazardous materials. (F, Sp)

CJUS 171 Emergency Dispatching II

Prerequisite: CJUS 170 1.0 minimum or Concurrently

This course has been designed to introduce the student to effective communication skills, dispatch techniques, first aid and CPR techniques, telephone techniques, call-intake processing, and emergency medical dispatching, Simulation exercises are included. (F, Sp)

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)

CJUS 205 Policing into the 21st Century

Prerequisite: CJUS 101 1.0 minimum

This course is designed to provide the student with an understanding of the philosophy of community policing. As such, the components and processes involved in the implementation of non-traditional policing methods, as well as the development of a partnership between the community and the police, will be examined. (E, Sp)

CJUS 206 Interview and Interrrogation

Prerequisite: Reading Level 5 and Writing Level 4 Provides students with the techniques and procedures utilized in conducting lawful, admissible, and successful investigative interviews and interrogations. (F, Sp, Su)

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CJUS 263-CNCP 210

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CJUS 263 Standard First Aid

Prerequisite: None

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Co-requisite Courses: CJUS 260 and CJUS 261 and CJUS 262 and CJUS 264 and CJUS 265 and CJUS 266 and CJUS 267 and CJUS 268 and **PEET 114**

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 and CPR training. (F, Sp, Su)

CJUS 264 Rprt Writing in Law Enforce

Prerequisite: None

Co-requisite Courses: CJUS 260 and CJUS 261 and CJUS 262 and CJUS 263 and CJUS 265 and CJUS 266 and CJUS 267 and CJUS 268 and **PEET 114**

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 terminology, and proper formatting. (F, Sp, Su)

CJUS 265 Highway Traffic Operations

Prerequisite: None

Co-requisite Courses: CJUS 260 and CJUS 261 and CJUS 262 and CJUS 263 and CJUS 264 and CJUS 266 and CJUS 267 and CJUS 268 and **PFFT** 114

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. (F, Sp, Su)

Э CJUS 266 Basic Police Science Prereguisite: None

Co-requisite Courses: CJUS 260 and CJUS 261 and CJUS 262 and CJUS 263 and CJUS 264 and CJUS 265 and CJUS 267 and 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 experiences. (F, Sp)

CJUS 267 Law Enforcement Phys Traing

Prerequisite: None

Co-requisite Courses: CJUS 260 and CJUS 261 and CJUS 262 and CJUS 263 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 stretching. (F, Sp, Su)

CJUS 268 Precision Driving

Prerequisite: None

Co-requisite Courses: CJUS 260 and CJUS 261 and CJUS 262 and CJUS 263 and CJUS 264 and CJUS 265 and CJUS 266 and CJUS 267 and **PEET 114**

The course is designed to identify and utilize proper driving techniques and procedures using the principles of precision driving. Course involves both classroom and hands-on driving. (F, Sp)

CJUS 281 Directed Independent Study

Prerequisite: Department Approval

Sixteen hours of study and research are assigned per credit. Students are given criminal justice related research assignments which will introduce them to research procedures and resources. (F, Sp, Su)

CJUS 285 Law Enforcement Internship

Prerequisite: Department Approval

Sixteen eight-hour shifts are scheduled with an approved police department. Written reports are required, (F. Sp. Su)

CJUS 286 Juvenile Internship I

Prerequisite: CJUS 106 1.0 minimum or Concurrently and Department Approval The student will be placed in a local program dealing with young people from at risk populations. A classroom component includes preparation for job interviews and other skill-building exercises for working in the juvenile justice field. Written reports are required. (F. Su)

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

Prereguisite: 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, Su)

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

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 DTDS 180 2.0 minimum 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

Mastercarn 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)

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CNCP 215 Generative Machining

Prerequisite: CNCP 110 2.0 minimum

Generative Machining (Gen-Mach) is an advanced CNC programming module that is part of the IDEAS engineering design software. Gen-Mach uses IDEAS CAD drawings to graphically create CNC cutter path programs that are parametrically linked to the CAD model. Students will learn a variety of profile contouring and complex surface machining methods for CNC lathes and mills. (F, Sp)

COOP COOPERATIVE EDUCATION

COOP 210 Cooperative Education (Tech)

Prerequisite: Department Approval

Recommended: 2.5 GPA or Greater

Provides technical students with professional and practical work experience in their career field. The student works for a co-op employer as a paid, temporary, part-time employee trainee in a planned, structured and supervised work experience. Students apply knowledge and skills learned in academic courses to real-world situations. (F, Sp, Su)

CPSC - COMPUTER SCIENCE

CPSC 120 Introduction to Computers

Prerequisite: Reading Level 3 and Writing Level 4 and Math 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 150 Fortran

Prerequisite: Reading Level 5 and Writing Level 4 and (Math Level 9 or MATH 122 2.0 minimum or MATH 126 2.0 minimum)

Structured programming techniques are applied in the design of algorithms and their implementation in FORTRAN 77. Topics included are stepwise refinement outlines, control structures, functions and subroutines, input and output procedures with text files, data types, arrays, and string processing. (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 is designed to establish an understanding of fundamental computational procedures required for continuing study in computer science. Techniques of structured design are applied in the implementation of algorithms in C++. Topics included are program development, control structures, functions, procedures, recursion, file operations, data types, arrays, string processing, pointer variables, and 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, Su)

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)

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 Independ Study in Computer Sci

Prerequisite: Department Approval

An independent study in some area of computer science not covered by an existing course. The student works independently under the supervision of a faculty member. Student devotes three or more hours per week to this study in addition to their work with the assigned instructor. (F, Sp, Su)

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CTRT: COURT REPORTING

CTRT 100 Machine Shorthand Theory I

Prerequisite: Admission to Court Reporting Program and Reading Level 5 and Writing Level 4

This course is specifically designed for conflict-free theory taught on a steno machine to develop note writing accuracy from 95 to 100 percent, (F, Sp)

CTRT 110 Machine Shorthand Theory II

Prerequisite: None

Restriction: Court Reporting Majors

Recommended: Minimum 3.0 in CTRT 100 or CTRT 120 or CACH 101 This course is specifically designed for conflict-free theory taught on a steno machine to develop note writing accuracy from 96 to 100 percent. (F, Sp)

CTRT 120 Summer Skill Building I

Prerequisite: None

Restriction: Court Reporting Majors

Recommended: Minimum 3.0 in CTRT 100 or CTRT 110 or CACR-111 This course is specifically designed for machine shorthand skill building in the areas of Theory or Q & A and Literary dictation. It will assist students in develop-

ing the required levels and/or accuracy. (Su)

CTAT 200 Court Reporting I

Prerequisite: None

Restriction: Court Reporting Majors

Recommended: Minimum 3.0 in CTRT 120 or CACR 121

This course is specifically designed for machine shorthand skill building in the areas of Q & A, multi-voice dictation, Jury Charge, and Literary dictation at speeds ranging from 100 to 140 wpm. (F, Sp)

CTAT 210 Court Reporting II

Prerequisite: None

Restriction: Court Reporting Majors Recommended: Minimum 3.0 in CTRT 200 or CACR 205

This course is specifically designed for machine shorthand skill building in the areas of Q & A, multi-voice dictation, Jury Charge, and Literary dictation at speeds ranging from 150 to 190 wpm. (F, Sp)

CTRT 220 Summer Skill Building II

Prerequisite: None

Restriction: Court Reporting Majors

Recommended: Minimum 3.0 in CTRT 200 or CTRT 210 or CACR 206 This course is specifically designed for machine shorthand skill building in the areas of Q & A, multi-voice and Literary dictation. It will assist students in developing the required levels and/or accuracy. (Su)

CTRT 230 Advanced Skill Building

Prerequisite: None

Restriction: Court Reporting Majors

Recommended: Minimum 3.0 in CTRT 220 or CACR 206

This capstone course is specifically designed for machine shorthand skill building in the areas of Q & A, multi-voice, Literary, and Jury Charge dictation to assist the students to reach graduation speeds. To graduate, students must meet the NCRA CASE minimum requirements. (F, Sp)

CTRT 235 English for Court Reporters 1

Prerequisite: None

Restriction: Court Reporting Majors

Recommended: CTRT 120 3.0 minimum

This course is specifically designed to reinforce proper grammar and punctuation usage, how to punctuate the spoken word and proofreading skills for court reporting students. (F)

CTRT 240 CAT-Comp-Aided Transcription

Prerequisite: None

Restriction: Court Reporting Majors

Recommended: Minimum 3.0 in CTRT 200 or CACR 205 or CACR 206 or CACR 215

This Computer Aided Transcription (CAT) course is specifically designed to assist court reporting students in developing their skill and knowledge of court reporting software. (F)

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CTRT 245 Re	altime Reporting	
Prerequisite: N	one	
	urt Reporting Majors	
	I: Minimum 3.0 in CTRT 200 or CACR 110	
	nsists of instruction in realtime reporting through le tapes, assigned readings, and hand-on applications	
CTRT 250 Me	dical Vocab/Court Report I	
Prerequisite: N		
	urt Reporting Majors	
	: Minimum 3.0 in CTRT 120 or CACR 121	
	t of two courses specifically designed to assist th lge of medical terminology, body systems and funct	
	sical diseases, drugs, methods of research, and sk	
transcription. (F		
CTRT 255 Me	dical Vocab/Court Report II	
Prerequisite: N	•	
Restriction: Co	urt Reporting Majors	
	: Minimum 3.0 in CTRT 250 or CACR 121	
	and of two courses specifically designed to assist t lge of medical terminology, body systems and funct	
	sical diseases, drugs, methods of research, and sk	
transcription. (F,		
CTRT 260 Leg	al Vocab/Court Reporters	
Prerequisite: N	one	
	urt Reporting Majors	
	: Minimum 3.0 in CTRT 100 or CACR 101	
legal terminolog	pecifically designed to assist the student in gaining y and how it applies to the court reporting profession	knowledge n. (F, Sp)
CTRT 265 Ca	otioning	
Prerequisite: N	one	
	urt Reporting Majors	
	: Minimum 3.0 in CTRT 200 or CACR 205 or CACR r CACR 215	206
This course pro	vides instruction, field trip experience, and hands-on try-level on-line captioning knowledge and skill. (Sp)	
		ł
	urt Reporting Procedures	
Prerequisite: N Restriction: Co	one urt Reporting Majors	
	: Minimum 3.0 in CTRT 200 or CACR 205 or CACR	206
0	r CACR 215	
	sists of lecture and field trips to assist the court repo	
to léarn reportir trative hearings.	g techniques and procedures in trials, depositions, (F)	and admini
CTRT 275 Inte	rnship	
	epartment Approval	
•	urt Reporting Majors	
	: Minimum speed level of 180 wpm	
	in internship will spend a minimum of 100 hours with	
	and realtime reporters and/or captioners. They will w	
	proper form, producing 100 pages of transcript,and/ ary in order to learn specific techniques and procedure	
CUALCORED	T UNION ACCOUNTING AND INSURANCE	
Prerequisite: N	dit Union Accounting	
A COULDING N	Une	
	phasizes those areas of financial accounting releval	nt to extern

CUMA - CREDIT UNION MANAGEMENT

CUMA 100 Intro Credit Union Operations

Prerequisite: None

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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)

CUMA 200 Credit and Collections

Prerequisite: None

This course covers the basic fundamentals of the credit/collection industry. Emphasis on learning the basics of the credit decision 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. (Sp)

CUMA 201 Credit U. Financial Counseling

Prerequisite: None

This course is an overview of financial counselino techniques and skills for credit union employees. Emphasis is placed on skill-building exercises to enable students to develop a basic understanding of financial alternatives available to their customers. (Sp)

CUMA 215 Business Law for Credit Unions

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Prerequisite: None

Covers fundamental principles of law applicable to credit union personnel. This course 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)

DADH. DENTAL ASSISTANT/DENTAL HYGIENE

DADH 128 Dental Radiography

Prerequisite: (DAST 111 2.0 minimum and DAST 112 2.0 minimum and DAST 114 2.0 minimum) or (DHYN 110 2.0 minimum and DHYN 112 2.0 minimum and DHYN 114 2.0 minimum)

Co-requisite Courses: Second Semester Dental Hygicale and Dental Assistant Lectures discuss production and emission of dental X-radiation, indications for exposure, technics of exposure, processing, evaluation, and interpretation of dental radiographs. Individualized laboratory sessions provide students practice in exposing, processing, mounting, and evaluating radiographs, (Sp)

DANC - DANCE

DANC 100 Introduction to Dance

Prerequisite: None

This course is designed for the student with no dance experience. Students will explore the basic techniques of the core dance forms including ballet, modern, tap. and jazz. Different aspects of dance are covered, including dance as art, the choreographer, the dancer, the viewer, dance production, dance in education, and dance careers. (F)

DANC 101 Ballet I

Prerequisite: None

This course is designed for the student with no dance experience. Included are basic alignment principles, ballet vocabulary and steps, and elementary combinations of ballet technique for the beginning dance student. Basic barre and center floor combinations will be included. (F, Sp, Su)

DANC 102 Modern Dance I

Prerequisite: None

This course is designed for the students with no dance experience. Included are basic alignment training techniques, spatial relationships, and elementary combinations. Some improvisation will be used throughout the course to assist in developing kinesthetic, spatial, cognitive, and physical awareness. (F, Sp. Su)

DANC 103 Jazz I

Prerequisite: None

This course is designed for the student with no dance experience. Included are basic alignment, warm-up, and isolations in jazz dance technique for beginning dance students. Spatial relationships and rhythm are emphasized. (F. Sp)

DANC 104 Tap I

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Prerequisite: None

This course is designed for the student with no dance experience. Included are basic tap origins, vocabulary, steps, combinations, and rhythms. Basic alignment training techniques, spatial relationships, and elementary combinations are explored. (F, Sp)

DANC 105-DANC 165

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DANC 105 Jazz I - Summer 1	
Prerequisite: None This course includes basic alignment, warm-up, and isolation in jazz dance tech- nique for beginning dance students. Spatial relationships and rhythm are empha- sized. (Su)	
DANC 106 Tap I - Summer 1	
Prerequisite: None This course includes basic tap origins, vocabulary, steps, combinations, and rhythms for the beginning dance students. Basic alignment training techniques,	
spatial relationship, and elementary combinations are explored. (Su)	
DANC 107 Ballet I - Summer 1	
Prerequisite: None This course is designed for the student with no dance experience. Included are: basic alignment principles, ballet vocabulary and steps, and elementary combina- tions of ballet technique for the beginning dance student. Basic barre and center floor combinations will be included. (Su)	
DANC 108 Modern Dance I - Summer 1	
Prerequisite: None This course is designed for the student with no dance experience. Included are: basic alignment training techniques, spatial relationships, and elementary combi- nations. Some improvisation will be used throughout the course to assist in devel- oping kinesthetic, spatial, cognitive, and physical awareness. (Su)	-
DANC 110 High School Dance Workshop 3	
Prerequisite: Dance Audition This course is designed for the talented high school student. It is an intensive course of study in basic tap, ballet, modern, and jazz. This includes basic align- nent training techniques, spatial relationships, and elementary combinations. Some improvisation used to develop kinesthetic, spatial, cognitive, and physical awareness. Basic performance skills are developed using all dance disciplines. (Su)	
DANC 111 Ballet II 2	
Prerequisite: None Recommended: DANC 101 or Previous Ballet Experience Designed for the student who has successfully completed Beginning Ballet I, this course includes a continuation of movement theory, alignment, increased training practices, vocabulary, and longer combinations. The student will begin to explore the aspects of building a personal movement style. (Sp. Su)	
DANC 112 Modern Dance II 2	ĺ
- Prerequisite: None Recommended: DANC 102 or Previous Modern Experience This course includes a continuation of movement theory, alignment, increased	

training practices, spatial relationships, vocabulary, and longer combinations. Improvisation will be used to develop kinesthetic, spatial, cognitive, and physical awareness. The student will begin to explore the aspects of building a personal movement style. (Sp, Su)

DANC 113 Jazz II

Prerequisite: None

Recommended: DANC 103 or Previous Jazz Experience

This course includes a continuation of alignment, vocabulary, jazz movement theory, increased training practices, and longer combinations. A more comprehensive use of body isolations and movement rhythms will be explored. The student will begin to explore the aspects of building a personal movement style. (Sp)

DANC 114 Tap II

Prerequisite: None

Recommended: DANC 104 or Previous Tap Experience

Designed for the student who has successfully completed Beginning Tap I, this course includes a continuation of tap vocabulary, steps, combinations, and rhythms. Emphasis is placed on increased complexity in rhythms and combinations. The students will begin to explore the aspects of building a personal movement style, (Sp)

DANC 115 Jazz II - Summer

Prerequisite: None

Recommended: DANC 103 or Previous Jazz Experience Emphasis is placed on beginning to develop a personal style of movement in preparation for performance. Course includes a continuation of alignment, warmup, and isolations in addition to various rhythms and combinations. (Su)

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DANC 116 Tap II - Summer

Prerequisite: None

Recommended: DANC 104 or Previous Tap Experience

Emphasis is placed on increased complexity in rhythms and combinations. Course ncludes a continuation of tap vocabulary, steps, combinations, and rhythms. (Su)

DANC 125 Dance Improvisation

Prerequisite: DANC 101 2.0 minimum or DANC 102 2.0 minimum or DANC 103 2.0 minimum

This course is designed for the major and nonmajor. It provides students with opportunities to discover the skills of critical and creative thinking, as well as conergent and divergent thinking through problem-solving exercises. Spatial, kineshetic, and emotional awareness are uncovered, as well as the discovery of novement qualities, (F)

DANC 126 Choreography

Prerequisite: DANC 125 2.0 minimum (previously DANC 124)

his course is designed to acquaint the student with basic choreographic techiques. Improvisation is utilized to explore ideas. Dance elements of time, space, ind energy will be explored in addition to the mechanical and gestural aspects of novement. The concept of language and symbol system is studied. (Sp)

DANC 132 Spanish Dance

rerequisite: None

his course is designed for the beginning level student. It is an introduction to the rigins and techniques of Spanish dance as performed in Spain. Included are traitional music, footwork, body work, costumes, customs, and use of castanets. Sp)

ANC 134 African Dance

rerequisite; None

his course is designed for the Beginning II level student. It is an introduction to ne origins and techniques of African dance as performed in various African counies. Included are traditional music, footwork, body work, costumes, and customs. f, Sp)

ANC 161 Ballet Repertory

rerequisite: Dance Audition for Ballet Repertory

his course is designed for the student who has reached a minimum of the eginning Ballet II level. The student participates in the process of auditions, ehearsals, and public performances in the ballet genre and concentrates on emorization, projection, and musicality. (Sp)

ANC 162 Modern Dance Repertory

rerequisite: Dance Audition for Modern Dance Repertory

This course is designed for the student who has reached a minimum of Modern Beginning II to gain performance experience in a controlled setting. The student participates in the process of auditions, rehearsals, and public performances in the modern dance genre and concentrates on memorization, projection, and musicality. (Sp)

DANC 163 Jazz Repertory

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Prerequisite: Dance Audition for Jazz Repertory

This course is designed for the student who has reached a minimum of Beginning Jazz II to gain performance experience in a controlled setting. The student participates in the process of auditions, rehearsals, and public performances in the jazz genre and concentrates on memorization, projection, and musicality. (F)

DANC 164 Tap Repertory

Prerequisite: Dance Audition for Tap Repertory

This course is designed for the student who has reached a minimum of Beginning Tap II to gain performance experience in a controlled setting. The student particlpates in the process of auditions, rehearsals, and public performances in the tap genre and concentrates on memorization, projection, and musicality. (F)

DANC 165 Video Dance Repertory

Prerequisite: Department Approval

This course is designed for the student who has reached the intermediate level or above. Students learn choreography, staging and performance, specifically designed for video production. A short-term rehearsal process culminates in a finished video performance. A maximum of one credit in video dance can be used for degree requirements. (F, Sp, Su)

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DANC 191 Dance History

Prereguisite: None

This course is a dance history overview commencing with the origins of ballet to the present. Important developments and contributors in the field of American dance education will be interwoven with the important developments and contributors of Western dance forms. (F)

DANC 193 Dance Anatomy

Prerequisite: DANC 101 2.0 minimum or DANC 102 2.0 minimum or

DANC 103 2.0 minimum This course is an introduction to basic anatomy as it applies to dance. Terminology, practical application, theory of movement, nutrition, and injury prevention and care will be incorporated. Emphasis will be placed on major muscles, muscle groups, and skeletal structure. (Sp)

DANC 201 Ballet III

Prerequisite: Dance Audition for Ballet III

This course 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 a personal movement style in preparation for performance. Pointe shoes are optional. (F, Sp, Su)

DANC 202 Modern Dance III

Prerequisite: Dance Audition for Modern Dance III This course includes a continuation of alignment training, spatial relationships, improvisation techniques, movement theory, increased training practices, movement symbols, 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 Jazz III

Prerequisite: Dance Audition for Jazz III 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. (F, Sp)

DANC 204 Tap III

Prereguisite: Dance Audition for Tap III 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. (F, Sp)

DANC 205	Jazz III - Summer	1.5

Prerequisite: Dance Audition for Jazz III Emphasis is placed on developing a personal style of movement. Course includes a continuation of alignments, warm-up, and isolations in addition to more complex rhythms and combinations. (Su)

DANC 206 Tap III - Summer

Prerequisite: Dance Audition for Tap III Emphasis is placed on increased complexity of rhythms and combinations in order to develop a personal style in preparation for performance. (Su)

DANC 207 Ballet III - Summer

Prerequisite: Dance Audition for Ballet III This course 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 a personal movement style in preparation for performance. Pointe shoes are optional. (Su)

DANC 208 Modern Dance III - Summer

Prerequisite: Dance Audition for Modern Dance III This course includes a continuation of alignment training, spatial relationships, improvisation techniques, movement theory, increased training practices, movement symbols, 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. (Su)

DANC 211 Ballet IV

Prerequisite: Dance Audition for Ballet IV This course includes a continuation of movement theory, alignment, increased training practices, vocabulary, and longer combinations. Emphasis is placed on dance dynamics and continued development of a personal movement style. Performance skills are sharpened and include: projection, musicality, flow, articulation, clarity of intent, motivation, phrasing, and gesture. Pointe shoes are optional. (F, Sp, Su)

DANC 212 Modern Dance IV

Prerequisite: Dance Audition for Modern Dance IV

This course includes a continuation of Intermediate Modern I. Emphasis is placed on center floor transitional techniques, dance dynamics, examination and practice of movement qualities, and continued development of personal movement style. Performance skills are sharpened and include projection, musicality, flow, articulation, clarity of intent, motivation, phrasing, and gesture. (F, Sp, Su)

DANC 217 Ballet IV - Summer

Prerequisite: Department Approval

This course includes a continuation of movement theory, alignment, increased training practices, vocabulary, and longer combinations. Emphasis is placed on dance dynamics and continued development of a personal movement style. Performance skills are sharpened and include: projection, musicality, flow, articulation, clarity of intent, motivation, phrasing, and gesture. (Su)

DANC 218 Modern Dance IV - Summer

Prerequisite: Department Approval

This course includes a continuation of Intermediate Modern I. Emphasis is placed on center floor transitional techniques, dance dynamics, examination and practice of movement qualities, and continued development of personal movement style. Performance skills are sharpened and include projection, musicality, flow, articulation, clarity of intent, motivation, phrasing, and gesture. (Su)

DANC 225 Jazz IV - Summer

Prerequisite: Dance Audition for Jazz IV Emphasis is placed on learning different styles of jazz dance appropriate to differ-

ent performance needs. Course includes continuation of alignment, warm-up, and isolations in addition to more complex rhythms and combinations. (Su)

DANC 244 Pointe Technique I

Prerequisite: Dance Audition for Pointe Technique I

This course is designed for the intermediate level and above ballet student. Pointe technique continues the development of strength, flexibility, coordination, and balance. Emphasis is placed on elementary pointe technique exercises to strengthen

Working under the guidance of an approved instructor, the student will pursue

Lecture and practical experience will introduce the student to dental instruments and equipment for tray setups and the use and maintenance of these items for

Co-requisite Courses: DAST 110 and DAST 112 and DAST 114 and

Through lecture and simulated clinical experience the student will be introduced to these dental procedures: four-handed chairside assisting, charting, management

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DANC 191-DAST 111

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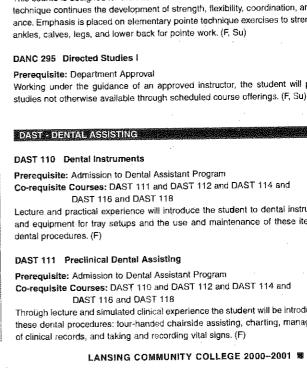
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DAST 112-DHYN 126

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DAST 112 Dental Anatomy

Prerequisite: Admission to Dental Assistant Program Co-requisite Courses: DAST 110 and DAST 111 and DAST 114 and

DAST 116 and DAST 118

Study of normenclature, morphologic characteristics, and physiologic relationships of human primary and permanent teeth. Head and neck anatomy and the histologic and embryologic development is included with a review of basic oral pathology for the dental assistant. Laboratory activities develop observation and dexterity skills while studying this information. (F)

DAST 114 Preventive Dentistry & Prc

Prerequisite: Admission to Dental Assistant Program

Co-requisite Courses: DAST 110 and DAST 111 and DAST 112 and

DAST 116 and DAST 118

An introduction to the dental operatory, aseptic technics, and oral hygiene procedures for preventing dental diseases. Dental emergency prevention, protocol, care, and OSHA regulations are reviewed. (F)

DAST 116 Dental Materials

Prerequisite: Admission to Dental Assistant Program

Co-requisite Courses: DAST 110 and DAST 111 and DAST 112 and DAST 114 and DAST 118

Lecture and laboratory sessions address the properties, selection, manipulation, and evaluation of materials used in dentistry. Practice is provided in the preparation, manipulation, and delivery of the materials most often handled by the dental assistant. (F)

DAST 118 Dental Assisting Principles

Prerequisite: Admission to Dental Assistant Program

Co-requisite Courses: DAST 110 and DAST 111 and DAST 112 and DAST 114 and DAST 116

Various aspects of the dental profession are discussed to prepare the student dental assistant for entry to the health team. Subjects include dental law, ethics, liability, health profession organizations, employment, and current health care issues. (F)

DAST 120 Clinical Dental Assisting I

Prerequisite: DAST 111 2.0 minimum and DAST 112 2.0 minimum and DAST 116

2.0 minimum and DAST 118 2.0 minimum and EMSB 102 Co-requisite Courses: DADH 128 and DAST 126 and DAST 130

A study of the clinical practice of four-handed chairside dental assisting with emphasis on general restorative and dental specialty procedures. Sessions correlate clinical procedures and practice with private practice and field experience participation. (Sp)

DAST 126 RDA Procedures - DA

Prerequisite: DAST 110 2.0 minimum and DAST 111 2.0 minimum and DAST 112 2.0 minimum and DAST 114 2.0 minimum and

DAST 116 2.0 minimum

Co-requisite Courses: DADH 128 and DAST 120 and DAST 130 A study of the intra-oral functions delegated to the licensed registered dental assistant in the State of Michigan. Laboratory time is provided for the student to learn the technics and gain proficiency in those procedures that will be performed during clinic rotations. (Sp)

DAST 130 Clinical Dental Assisting II

Prerequisite: (DADH 128 2.0 minimum and DAST 120 2.0 minimum and DAST 126 2.0 minimum) or Concurrently

Co-requisite Courses: DADH 128 and DAST 120 and DAST 126

Lecture sessions teach basic communication, psychology, and effective dental office management skills for dental assistants. Students practice these skills during laboratory simulations. Field experience assignments provide on-site practice and integration of dental assisting chairside, specialty, RDA, and team skills. (Sp)

DAST 140 Clinical Dental Assisting III

Prerequisite: DAST 130 2.0 minimum Basic communication, writing, and psychology skills needed for effective patient management, dental office management, chairside assisting, and the employment process are emphasized. Computer application and field experience assignments provide preparation, practice, and integration of these skills to the dental office setting. (Su)

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DHYN - DENTAL HYGIENE

DHYN 110 Preclinical Dental Hygiene

Prerequisite: Admission to Dental Hygienist Program

Co-requisite Courses: DHYN 112 and DHYN 114 and DHYN 116

Through lecture and simulated clinical experience the student is introduced to the clinical practice of dental hygiene: operatory preparation, oral examinations and assessment, oral prophylaxis procedures, oral health practices and patient education, and an orientation to the profession. Students will also learn success maintenance of their own oral health. (F)

DHYN 112 Oral Anatomy

Prerequisite: Admission to Dental Hygienist Program

Co-requisite Courses: DHYN 110 and DHYN 114 and DHYN 116 Study of nomenclature, morphologic characteristics, and physiologic relationships of human primary and permanent teeth. Head and neck anatomy and the histologic and embryologic development is also studied and related to the clinical practice of dental hygiene. Laboratory activities develop observation and dexterity skills while studying this information. (F)

DHYN 114 Oral Pathology

Prerequisite: Admission to Dental Hygienist Program

Co-requisite Courses: DHYN 110 and DHYN 112 and DHYN 116

Study of the diseases effecting oral tissues, including the principles of inflammetion and repair, developmental disturbances, stains and accretions, diseases of the teeth and supporting structures, oral infection, injuries, and neoplasms. (F)

DHYN 116 Dental Pharmacology

Prerequisite: Admission to Dental Hygienist Program Co-requisite Courses: DHYN 110 and DHYN 112 and DHYN 114 A study of the administration, use, action, and effects of drugs most commonly used by patients and their relationship to dental treatment and dental hygiene procedures. (F)

DHYN 120 Clinical Dental Hygiene I

Prerequisite: DHYN 110 2.0 minimum and DHYN 112 2.0 minimum and DHYN 114 2.0 minimum and DHYN 116 2.0 minimum and EMSB 102

Co-requisite Courses: DADH 128 and DHYN 122 and DHYN 124 and DHYN 126 Initial clinical practice of basic dental hygiene services: recognition and recording or oral conditions, medical history, oral health education, prophylaxis fluoride treatment, sterilization, radiography, and desk procedures. Skills are developed further in treatment planning, periodontal examination, caries detection, instrument sharpening, emergency recognition/prevention/care, and clinical photography. (Sp)

DHYN 122 Principles of Periodontics

Prerequisite: DHYN 110 2.0 minimum and DHYN 112 2.0 minimum and

DHYN 114 2.0 minimum and DHYN 116 2.0 minimum Co-requisite Courses: DADH 128 and DHYN 120 and DHYN 124 and DHYN 126 Study of anatomy, physiology, and histology of the periodontal tissues as they relate to the identification, etiology, prevention and treatment of periodontal disease, and occlusal disorders. Evaluation of disease status: diagnosis, patient management, and disease prevention is presented relative to the hygienist's role as a co-therapist in private practice. (Sp)

DHYN 124 Nutrition and Oral Health

Prerequisite: DHYN 110 2.0 minimum and DHYN 112 2.0 minimum and DHYN 114 2.0 minimum and DHYN 116 2.0 minimum and EMSB 102

Co-requisite Courses: DADH 128 and DHYN 120 and DHYN 122 and DHYN 126 Discussion of 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 courseling and dide information to special needs patients, and the relationship of nutrition to oral health are emphasized. (Sp)

DHYN 126 Dental Materials and Methods

Prerequisite: DHYN 110 2.0 minimum and DHYN 112 2.0 minimum and

DHYN 114 2.0 minimum and DHYN 116 2.0 minimum

Co-requisite Courses: DADH 128 and DHYN 120 and DHYN 122 and DHYN 124 Study of terminology, selection, manipulation, and evaluation of materials used in dentistry. Activities emphasize dental materials and procedures utilized by the dental hygienist. Students are prepared in the knowledge needed to educate patients regarding the benefit of certain restorative procedures for good oral health. (Sp)

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DHYN 210 Clinical Dental Hygiene II

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Prerequisite: DADH 128 2.0 minimum and DHYN 120 2.0 minimum and DHYN 122 2.0 minimum and DHYN 124 2.0 minimum and DHYN 126 2,0 minimum

Co-requisite Courses: DHYN 212 and DHYN 214 and DHYN 216

A continuation of clinic, perfecting comprehensive treatment planning and advanced prophylaxis technics: deep scaling, root planing, nutritional counseling, ultrasonic scaling, and the use of chemotherapeutic agents. This course coordinates the periodontal case study, advanced patient care and management, and a review of ethical case studies. (F)

DHYN 212 Advanced Dental Hygiene Proced

Prereguisite: DADH 128 2.0 minimum and DHYN 120 2.0 minimum and DHYN 122 2.0 minimum and DHYN 124 2.0 minimum and DHYN 126 2.0 minimum

Co-requisite Courses: DHYN 210 and DHYN 214 and DHYN 216 The study of advanced clinical dental hygiene procedures with emphasis on the hygienist's role as co-therapist in performing root planing, ultrasonic instrumentation, nutritional counseling, and applying chemotherapeutic agents. Students complete a periodontal case study to demonstrate appropriate implementation of their periodontal knowledge and therapy skills. (F)

DHYN 214 Clinical Oral Pathology

Prerequisite: DADH 128 2.0 minimum and DHYN 120 2.0 minimum and DHYN 122 2.0 minimum

Co-requisite Courses: DHYN 210 and DHYN 212 and DHYN 216 Case histories are presented in which the student's objective is to formulate a differential diagnosis of an unknown oral lesion and propose a rational approach for evaluation and treatment of the patient. (F)

DHYN 216 Dental Public Health & Educ

Prerequisite: DADH 128 2.0 minimum and DHYN 120 2.0 minimum and DHYN 122 2.0 minimum and DHYN 124 2.0 minimum and DHYN 126 2.0 minimum

Co-requisite Courses: DHYN 210 and DHYN 212 and DHYN 214 Students review scientific literature, dental epidemiology, principles of public health, and health care delivery systems. Further study includes human behavior, growth and development, attitudes, learning skills, teaching methodologies, interpersonal relations, group dynamics, and communication skills relating to patient

DHYN 220 Clinical Dental Hygiene III

Prerequisite: DHYN 210 2.0 minimum and DHYN 212 2.0 minimum and DHYN 214 2.0 minimum and DHYN 216 2.0 minimum

education, motivation, and acceptance of health care. (F)

Co-requisite Course: DHYN 222

Performing comprehensive dental hygiene care in a timely manner is emphasized. The management and care of elderly patients and persons challenged with physical, mental, social/emotional, and selected medical conditions is presented and coordinated with clinical practice. Employment preparation and legal and professional ethic issues are reviewed. (Sp)

DHYN 222 Community Oral Health

Prerequisite: DHYN 210 2.0 minimum and DHYN 212 2.0 minimum and DHYN 214 2.0 minimum and DHYN 216 2.0 minimum

Co-requisite Course: DHYN 220

Students implement a program plan for a community project utilizing assessment, planning, implementation, and evaluation processes. 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)

DHYN 224 Testing Styles and Inventory

Prerequisite: DHYN 210 2.0 minimum and DHYN 212 2.0 minimum and DHYN 214 2.0 minimum and DHYN 216 2.0 minimum

An introduction to dental hygiene licensure exam testing techniques, test construction, and item analysis. Students inventory their current knowledge of dental hygiene and through self-evaluation and planning, establish study skills while recognizing their personal study needs for national boards and licensing exams. (Sp)

DHYN 230 RDA Procedures - DH

Prerequisite: DADH 128 2.0 minimum and DHYN 120 2.0 minimum and DHYN 126 2.0 minimum

A specially designed course for dental hygiene students wishing to learn auxiliary dental assistant procedures and those intraoral functions delegated only to the licensed registered dental assistant in the State of Michigan. Instruction is emphasized in the laboratory setting to prepare the student for practical application of these procedures. (Sp)

DTDS DRAFTING AND DESIGN

DTDS 100 CAD/Drafting Concepts

Prerequisite: None

This course teaches the fundamental concepts of drafting and design both manually and using computer-aided drafting (CAD). The student will learn the basics of orthographic projection, lettering, sketching, dimensioning techniques, computer hardware setup, Windows NT, file management, printing and much more. (F. Sp. Su)

DTDS 101 Drafting I

Prerequisite: (DTDS 100 2.0 minimum or Drafting Placement Test 80%)

and Reading Level 3 and Writing Level 2 and Math Level 4 This is an introductory course in drafting concepts. Instruction includes orthographic projection, auxiliary views, sections, dimensioning techniques, and secondary auxiliary view projections. Students will complete a series of drawings to demonstrate understanding of the concepts presented. (F, Sp, Su)

DTDS 102 Drafting II

Prerequisite: DTDS 101 2.0 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 aerospace industries. (F, Sp, Su)

DTDS 103 Geometric Tolerancing

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Prerequisite: DTDS 100 2.0 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, Su)

DTDS 104 Descriptive Geometry

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)

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, Su)

DTDS 121 CATIA I

Prereguisite: DTDS 101 2.0 minimum

An intermediate level computer aided design (CAD) class for students who have basic board drafting and CAD skills. Instruction covers basic concepts of the CATIA system of CAD. Students will learn 3D wireframe modeling as well as basic solid modeling concepts. Students will construct models of aircraft parts; automotive components and consumer goods. (F, Sp, Su)

DTDS 131 AutoCAD Basic 2-D

Prerequisite: DTDS 100 2.0 minimum or DTDS 101 2.0 minimum or

Drafting Placement Test 80%

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)

DTDS 132 AutoCAD Advanced 3-D

Prerequisite: DTDS 131 2.0 minimum

This course builds on the material covered in DTDS 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, Su)

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Prerequisite: DTDS 100 2.0 minimum or Drafting Placement Test 80%

DTDS 110 Industrial Blueprint Reading

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Prereguisite: DTDS 101 2.0 minimum

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DTDS 155-ELCT 101

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DTDS 155 I-DEAS Parts Modeling

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Prerequisite: DTDS 100 2.5 minimum or DTDS 101 2.5 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)

DTDS 156 I-DEAS Assemblies Modeling

Prerequisite: 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)

DTDS 180 Unigraphics I

Prerequisite: DTDS 100 2.0 minimum or DTDS 101 2.0 minimum or Drafting Placement Test 80%

This is the first of a three-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. (F, Sp, Su)

DTDS 181 Unigraphics II

Prerequisite: DTDS 180 2.0 minimum and (DTDS 102 2.0 minimum or Concurrentiv)

This is the second course of a three-semester course sequence. The course covers the construction of solid parts with assemblies and components constructed using primitives, extrusions, and bodies of revolution as well as surfaces. The solid models constructed will be dimensioned and plotted as drawings in class. (F, Sp, Su)

DTDS 182 Unigraphics III

Prerequisite: DTDS 103 2.0 minimum and DTDS 181 2.0 minimum This is the third of a three-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, Su)

DTDS 202 Die Design and Construction

Prerequisite: DTDS 101 2.0 minimum and ((DTDS 131 2.5 minimum or DTDS 181 2.5 minimum) or Concurrently)

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)

DTDS 204 Jigs and Fixture Design

Prerequisite: DTDS 101 2.0 minimum and ((DTDS 131 2.5 minimum or DTDS 181 2.5 minimum) or Concurrently)

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)

DTDS 209 Industrial Drafting Lab Prerequisite: Department Approval

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Gives additional lab time to industrial drafting students to fulfill extra requirements. This lab must be taken in conjunction with a drafting class. (F, Sp, Su)

DTDS 233 AutoCAD Mechanical Desktop

Prerequisite: DTDS 132 2.0 minimum

This course feaches 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, Su)

DTDS 280 Drafting Project Lab

Prerequisite: Department Approval

This course is intended to give the advanced drafting and design student an opportunity for more experience through mutual agreement between student and instructor. Students will complete advanced projects and research in a variety of design application situations. (F, Sp, Su)

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DTDS 285 CADD Project Lab

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 pro-

ject(s) on one of several available CAD systems. (F, Sp, Su)

ECON - ECONOMICS

ECON 120 Power, Authority and Exchange

Prerequisite: Reading Level 5 and Writing Level 4

A comparative study of primitive social economies and modern political systems. An emphasis will be placed on the evolution of economic organization in human society. (F, Sp)

ECON 140 Current Economic Issues

Prerequisite: Reading Level 5 and Writing Level 4

An introductory course focusing on economic problems and issues within the American economy. It provides an overview of economic analysis. Topic areas relate to an overall look at the economic system, government policy, prices and their application, money, income, and national income accounts of the United States. (F)

ECON 201 Principles of Economics-Micro

Prerequisite: Reading Level 5 and Writing Level 4 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)

ECON 202 Principles of Economics-Macro

Prerequisite: ECON 201 1.0 minimum or Concurrently and Reading Level 5 and Writing Level 4 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 and Writing Level 4

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)

EDUC - EDUCATION

EDUC 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. (F, Sp)

EDUC 220 Introduction to Education

Prerequisite: Reading Level 5 and Writing Level 6

An introduction to education as a teaching profession including an overview of the foundations, philosophy, history, current issues and trends, and organization of education as a human endeavor. (F, Sp, Su)

ELCT - ELECTRONICS TECHNOLOGY

ELCT 100 Schematic Drawing

Prerequisite: None

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)

ELCT 101 Analog Problems

Prerequisite: Reading Level 5 and Writing Level 2 and Math Level 4 Recommended: High School Algebra

This course provides circuit analysis problem practice for both DC and AC circuits. Topics include algebraic manipulation and solution of electronic formulas and basic trigonometric solutions of AC circuits using complex notation. A scientific calculator is required for polar to rectangular conversion and binary, octal and hexadecimal calculations. (F, Sp)

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ELCT 109 DC Circuits

Prerequisite: ELCT 101 1.0 minimum or Concurrently

A half-semester beginning DC circuit analysis course covering resistors, power supplies and digital multimeters. Lecture and laboratory topics include resistor color code, series, parallel, series-parallel circuits, Kirchoff network laws, superposition and Thevenin theorems. (F, Sp, Su)

ELCT 110 AC Circuits

Prerequisite: (ELCT 101 1.0 minimum and ELCT 109 1.0 minimum)

or Concurrently Recommended: ELCT 109 be taken first half of semester

A half-semester AC circuit analysis course covering complex numbers and trigonometry to analyze series and parallel RCL circuits, RC filter networks and series and parallel resonant circuits are also discussed. AC generators, oscilloscopes and frequency counters are used in laboratory experiments. (F, Sp, Su)

ELCT 112 Transistors

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Prerequisite: ELCT 110 1.0 minimum

A lecture and laboratory course dealing with diodes in power supply and regulator circuits, bipolar and field effect transistor biasing and single and multistage amplifier circuits. Circuits are discussed from the analysis, design and troubleshooting standpoints. (F. Sp)

ELCT 120 Programming Preparation

Prerequisite: None

The student will learn software that provides preparation for machine or high-level language programming. Software used is DOS, Windows, a text editor and a flowcharting program. Emphasis is placed on developing flowcharts for electronics related problems that can be programmed on a computer. (F. Sp, Su)

ELCT 131 Digital Basics

Prerequisite: None

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 151 Computer Troubleshooting

Prerequisite: ELCT 171 1.0 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 preventiva maintenance. (Sp)

ELCT 160 Logic Problems Analysis

Prerequisite: None

Recommended: High School Algebra 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 num-

ELCT_161 Soldering/Desoldering

Prerequisite: None

ber systems. (F, Su)

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: None

Recommended: ELCT 160 or Algebra

A basic electronics course intended for students in the Computer Repair Certificate Program and the Computer Technician Associate Degree Program. This course begins with basic electricity concepts and continues with topics through transistor circuits and basic digital electronics. (F)

ELCT 171 Computer Repair Electronics II

Prerequisite: ELCT 170 1.0 minimum A digital electronics and computer systems course intended for students in the Computer Repair Certificate Program and the Computer Technician Associate Degree Program. Course topics include semiconductor, magnetic and optical memory, computer system operation, microprocessors, peripheral adapters and microcomputer systems. (Sp)

ELCT 180 Computer Test Equipment I

Prerequisite: None 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 1.0 minimum or Concurrently) or (ELCT 131

1.0 minimum and ELCT 110 1.0 minimum) An advanced test-equipment course intended for students in the Computer Repair Certificate Program and the Computer Technician Associate Degree Program. Course topics include software diagnostic routines, signature and data analysis and computer troubleshooting equipment. (Sp)

ELCT 206 Project Lab

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Prerequisite: ELCT 112 1.0 minimum and Department Approval A guided independent study of a topic of interest within the area of electronics. The student will write a research paper or construct an electronic devico. Instructor approval must be obtained prior to enrolling in this course. (F, Sp, Su)

FLCT 211 Linear Circuits I

Prerequisite: ELCT 112 1.0 minimum Solid state devices such as the JFET, MOSFET and op-amps are studied. Applications of op-amps and comparators are examined using active filters, summing and differential amplifiers, window comparators and DC motor control circuits. (F)

ELCT 212 Linear Circuits II

Prerequisite: ELCT 112 1.0 minimum Linear devices such as PLL, VCO, waveform generators and voltage regulator circuits are studied. A unit on printed circuit board design is included. The student will design a printed circuit layout and construct a bipolar power supply. (Sp)

ELCT 231 Advanced Digital Electronics

Prerequisite: ELCT 112 1.0 minimum and ELCT 131 1.0 minimum Deals with advanced topics in digital electronics: adders, comparators, code converters, ALUs, non-sequential and shift register counters, display systems and solid-state memories. It also covers SIPO, PISO, SIGNATURE and D/A and A/D circuits. Laboratory work includes the analysis, design, construction and troubleshooting of digital circuits using SSI, MSI and LSI Ics. (F)

ELCT 232 Digital Commun and Networking

Prerequisite: ELCT 131 1.0 minimum

Introduces serial (Asynchronous & Synchronous) and parallel data transfer standards and cabling: RS-232, RS-485, IEEE-488, SCSI, Centronics, moderns, 10Base (2,5,T,F) and USB. Networking standards, protocols, medium construction and testing, monitoring and troubleshooting. Laboratory work includes constructing cables, installing, monitoring and troubleshooting a fault tolerant LAN around popular client server NOS-WNNT4.0 (Sp)

ELCT 242 Comp Intrfcng and Peripherals

Prerequisite: ELCT 231 1.0 minimum

Covers 80X86MPU pins, address decoding, interfacing of static and dynamic memories and IO adapters. Serial and parallel data transfer, interfacing of keyboard, display, floppy disk, modem, LAN network cards and motor control hardware will also be covered. Laboratory work involves construction of hardware and writing programs in Assembly and C languages. (Sp)

ELCT 251 Electronic Troubleshooting

Prerequisite: (ELCT 112 1.0 minimum or Concurrently) and ELCT 131 1.0 minimum

Introduces the principles of troubleshooting analog and digital circuits: analog circuits consisting of diodes, BJTs, FETs and digital circuits consisting of combination logic, decoders, multiplexers, counters, shift registers and display units. Laboratory work is based on computer-simulated troubleshooting exercises and troubleshooting digital circuits built on PC boards. (F).

ELCT 261 Consumer Product Systems

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Prerequisite: ELCT 112 1.0 minimum or Concurrently Common electronic consumer product operation is explained through block diagrams and schematic diagrams. Systems include AM and FM stereo radio, blackand-white and color television and videotape recorders. Lab work will involve measurements and alignments of normally operating systems. (Sp)

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ELCT 271-ELTE 240

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Prerequisite: ELCT 112 1.0 minimum

This course includes a review of resonant circuits, LC filter networks, radio frequency amplifiers, oscillators, amplitude modulation transmitting and receiving circuits and systems. (F)

ELCT 272 Communications II

ELCT 271 Communications I

Prerequisite: ELCT 271 1.0 minimum The student will learn frequency modulation transmitting and receiving circuits and systems, transmission lines, antennas and microwave devices. (Sp)

ELCT 290 Biomedical Internship

Prerequisite: Department Approval

This course will allow students to be placed in hospital biomed repair shops and earn credit for satisfactory work performance. The students' occupational interests are considered along with their background or related courses to determine placement. (F, Sp, Su)

ELCT 291 Communications Internship

Prerequisite: Department Approval

This internship will allow the student to gain practical work experience in the communication/electronics field of study. (Sp)

ELCT 292 Digital Electronics Internship

Prerequisite: Department Approval

This internship will allow the student to gain practical work experience in the digital electronics field of study. (F)

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)

ELTE 110 Practical Electricity

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. (F, Sp, Su)

Basic Wiring Installation	2
	Basic Wiring Installation

Prerequisite: None

Recommended: ELTE 110 2.0 minimum

This course covers installation of a variety of wiring systems in wood frame and masonry construction. Students will practice installing nonmetallic sheathed cable, flexible metal conduit, electrical metallic tubing and rigid conduit. (F, Sp)

ELTE 121 Analyzing Electric Circuits

Prerequisite: None

Recommended: 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 solve 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: None

Recommended: ELTE 121 2.0 minimum and INAU 100 2.0 minimum

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: None

Recommended: 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)

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ELTE 131 Intro to Machine Control

Prerequisite: None Recommended: 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: None

Recommended: ELTE 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: None

Recommended: 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: None

Recommended: ELTE 141 2.0 minimum or 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: None

Recommended: ELTE 110 2.0 minimum or ELTE 141 2.0 minimum 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 147 National Electric Code Changes

Prerequisite: None

Covers the changes to the National Electric Code and state codes in the most recent code cycle. (F, Sp, Su)

ELTE 150 Electric Motor Maintenance Prerequisite: None

Recommended: ELTE 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

ELTE 232 Industrial Control Design

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. (F)

Prerequisite: None

Recommended: ELTE 112 2.0 minimum and (ELTE 141 2.0 minimum or ELTE 142 2.0 minimum or ELTE 143 2.0 minimum or

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)

Prerequisite: None

Recommended: ELTE 131 2.0 minimum

included. (Sp)

ELTE 240 Electrical Estimating

ELTE 260-EMTA 108

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ELTE 260 Intro/Programmable Controllers 4 Prerequisite: None Recommended: ELTE 131 2.0 minimum This course covers programmable logic controllers with focus on common operat- ing principles. Topics include the capabilities, similarities and differences among controllers, programming (examine on/off, timers and counters) and connecting	EMSB 106 Infant/Child CPR
external devices to Allen-Bradley, Modicon and Omron. (F, Sp)	Prerequisite: None
ELTE 261 Allen-Bradley PLC-5 Advanced 6 Prerequisite: None 6 Recommended: ELTE 260 2.0 minimum 7 This course covers programming and connections for Allen-Bradley PLC-5 con-	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. (Sp)
trollers. Focus on math, subroutine, file, block transfer, sequencers, logic and bit manipulation instructions. Students will learn logic for machine control, pro- gramming and utilizing intelligent cards, ASCII, analog input/output and system documentation. (Sp)	EMSB 110 First Aid and CPR Seminar .5 Prerequisite: None This seminar offers adult CPR including airway obstruction and four hours of basic first aid. Red Cross certification is given to those successfully completing both
ELTE 291 Project Lab 1-4	components. (F, Sp, Su)
Prerequisite: ELTE 110 2.0 minimum and 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)	EMTA - EMERGENCY MEDICAL TECHNOLOGY EMTA 100 Medical First Responder 4
EMSA - EMERGENCY MEDICAL SERVICES	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
EMSA 100 First Aid and CPR 2	ambulance personnel. Successful completion enables the student to apply for state licensure as a medical first responder. (F, Sp, Su)

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)

EMSA 150 Basic EMT for Health Prof		8.25
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Prerequisite: None

This course will prepare the student as an EMT. Lecture material to be covered includes airway management, patient assessment, CPR, soft tissue injuries, head, chest, and abdominal injuries, recognition and management of environmental and medical emergencies; verbal, written and radio communications, triage, emergency childbirth and pediatric emergencies and OSHA standards. Practical skills will present the proper use of equipment in the delivery of basic emergency care. Clinicals will be included. (F, Sp, Su)

EMSEAE	MERGENCY MEDICAL SERVICES SEMINARS	
EMS8 101	CPR for Bystanders/Heartsaver	

Prerequisite: None

This seminar is designed for CPR instruction of the general public and adheres to American Heart Association guidelines. Content includes adult one-person CPR and foreign body airway obstruction. Also includes information about heart disease, risk factors, prudent heart living, and heart and lungs physiology. (F, Sp, Su)

EMSE 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 lunas. (F. Sp. Su)

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Prerequisite: None

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)

.75 EMSB 104 CPR Instructor

Prerequisite: None

The CPR Instructor's seminar is to provide the opportunity and forum to acquire knowledge and skills to accurately instruct and test the Basic Life Support Provider's courses according to American Heart Association guidelines. (F, Sp, Su) EMTA 101 Basic EMT 1

Prerequisite: Reading Level 5 and Writing Level 6

Co-requisite Course: 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 tissue 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: 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

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Prerequisite: EMTA 101 3.0 minimum and EMTA 102 3.0 minimum Co-requisite Courses: EMTA 104 and EMTA 112

The third in a sequence of five courses to prapare 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. (Sp. Su)

EMTA 104 Basic EMT IV

Prerequisite: EMTA 101 3.0 minimum and EMTA 102 3.0 minimum

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 the course and the clinical component enables the student to apply for licensing as a basic EMT. (Sp, Su)

EMTA 105 Ambulance Driving

Prerequisite: Department Approval

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 108 Legal Issues in Emergency Med

Prerequisite: Department Approval

A course to assist the EMT in understanding the legal system and legal principles as they apply to emergency pre-hospital care. Emphasis is placed on the evaluation of legally sound report writing skills, deposition delivery, and legal testimony. (Sp)

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Co-requisite Courses: EMTA 103 and EMTA 112

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EMTA 112 Basic EMT Clinical

Prerequisite: EMTA 101 3.0 minimum and EMTA 102 3.0 minimum

Co-requisite Courses: 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 community service component: teaching accident/sudden illness prevention and immediate first aid treatment to community. (F, Sp, Su)

EMTA 114 Rescue/Extrication/Danger Situ

Prerequisite: Department Approval

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

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Prerequisite: Department Approval

A Michigan Department of Public Health approved course for EMS personnel interested in becoming an instructor coordinator. Includes teaching and testing methods, lesson plan development, writing performance objectives, course administration, MDPH application for course approval, and meeting state requirements. Student teaching required. (Su)

EMTA 223 Advanced EMS I: Critical Care

Prerequisite: Department Approval

Prepares the student to become a critical care transport specialist and perform new expanded score of practice skills. Topics include ventilators, 12-lead ECGs, IV pumps, pharmacology, invasive lines, and complications of transport. Successful completion requires passing written and practical exams plus the supervised clinical component. (F)

EMTA 224 Advanced EMS II: Para

Prerequisite: Department Approval

This course will prepare the paramedic to work in a hospital or walk-in clinic environment. Hospital procedures, pharmacology, documentation, and assessment will be covered. Successful completion requires passing written and practical exams plus the supervised clinical component. (Su)

EMTA 225 Medical Hazardous Material

Prerequisite: Department Approval

An advanced course in EMS designed to provide the skills and understanding necessary for paramedics to safely manage Haz-Mat exposed patients. Key topics include safety, scene operations, hazard identification, patient assessment, treatment such as specialized pharmacology, and transport. (Sp)

EMTA 226 Emergency Medical Service Mgmt

Prerequisite: Department Approval

This course is designed to provide the student with knowledge and understanding of current EMS management issues. The course will explore the EMS specific aspects of human resources, administration, operations, finance, clinical management, medical control authority, system design, and public relations. (F)

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)

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ENGL 201 Introduction to Poetry

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

Recommended; 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. (Su)

ENGL 202 Introduction to Drama

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or

(Reading Level 5 and Writing Level 6) Recommended: 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: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

Recommended: 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. (Sp)

ENGL 211 World Literature I

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

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: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or

(Reading Level 5 and Writing Level 6)

A survey of the literatures of major world 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: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

Recommended: 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: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

Recommended: 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 filmmaker's visual and aural techniques as well as conventions more commonly associated with literature. (F, Sp, Su)

ENGL 245 Popular Culture and Mass Media

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or

(Reading Level 5 and Writing Level 6)

Recommended: 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)

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ENGL 255 American Literature I

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

Recommended: 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, Sp)

ENGL 256 American Literature II

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or

(Reading Level 5 and Writing Level 6)

Recommended: 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, liction, 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. (F, Sp)

ENGL 250 African-American Literature

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or

(Reading Level 5 and Writing Level 6)

Recommended: 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. (Sp)

ENGL 265 Japanese Literature

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

Recommended: 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: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or

(Reading Level 5 and Writing Level 6) Recommended: 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: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

Recommended: 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 ere 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: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

Recommended: 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. (Su)

ENGL 290 Shakespeare

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or

(Reading Level 5 and Writing Level 6)

Recommended: ENGL 122 Introductory course in the dramatic works of William Shakespeare. Students will read 9 to 12 plays representative of the author's cornedies, histories, and tradedies. (F)

ENGL 295 Independent Study

Prerequisite: Department Approval Special research projects and/or individual readings in English. Students will invest no less than 32 hours for each credit earned. Enrollment is usually restricted to honors students who have grade-point averages of at least 3.0 in courses offered by this department. (F, Sp, Su)

ENRI- ENRICHMENT

ENRI 098 Success Workshop

Prerequisite: None Mini-workshop intended to introduce and/or review reading-related techniques essential for academic survival and success. Sessions cover time management, establishing frame of reference, scientific skimming, main idea identification, organized study procedures, enhancing comprehension, note-taking through "mapping," and keys to improving objective test scores. Includes much practical, hands-on activity. (Sp)

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-learning outcomes-that correspond to LCC courses. (Sp)

ENRI 152 Workshop: READ Success Skills

Prereguisite: None

Designed for beginning college students, whether recent high school graduates or returning adults. Develops college reading survival skills. Concentrates on reading speed and flexibility, study techniques, concentration and memory, note-taking, test-taking, and vocabulary expansion. (Su)

ENRI 162 Workshop: WRIT Success Skills

Prerequisite: None

This course is designed for new and returning students, as well as others from the community. It helps students to develop their writing skills, enhances their understanding of writing as a tool for learning, and includes the study of writing for various disciplines. (Su)

ENVR ENVIRONMENTAL SCIENCE

ENVR 121 Environmental Rules and Regs

Prerequisite: Reading Level 5 and Writing Level 4 An overview of federal and some state environmental regulations (i.e., Clean Air Act, Clean Water Act, OSHA) and agency rules that control pollution by regulating discharges to air, water, and land. The emphasis is on those regulations that apply to the handling, treatment, storage, and disposal of hazardous materials. (Sp)

ENVR 122 Enviro Sampl & Instrumentation

Prerequisite: CHEM 151 2.0 minimum and CHEM 161 2.0 minimum and Reading Level 5 and Writing Level 4 and Math Level 5

An introduction to a variety of sampling and monitoring procedures and the instrumentation to accomplish the task. Students will learn how to take samples of ground water, surface water, air, soil, sludges, drums, and tanks. Appropriate sampling protocol, records, quality assurance, safety and decontamination are stressed. (F)

ENVR 131 Indust Process & Pollut Preven

Prerequisite: Reading Level 5 and Writing Level 4

A nontechnical introduction to general manufacturing processes with emphasis on waste reduction and pollution prevention strategies, functions within facilities, and selected unit operations widely used in industry. Examples and case studies of specific industries will be examined with respect to their basic processes, materials flow, worker health and safety, waste reduction, and pollution prevention. (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)

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ESLP 015 ESL Writing Skills I

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

Prerequisite: Placement Test

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 2.0 minimum or ESLP 014 2.0 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 2.0 minimum or ESLP 015 2.0 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 2.0 minimum or ESLP 024 2.0 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)

ESLP 035 ESL Writing Skills III

Prerequisite: ESLP 022 2.0 minimum or ESLP 025 2.0 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. Grammar instruction is integrated into the themes for each unit. (F, Sp)

ESLP 101 Vocational Preparation

Prerequisite: ESLP 022 2.0 minimum or ESLP 025 2.0 minimum or

Placement Test

This course is designed for advanced level non-native speakers of English who wish to pursue a certificate program of improve their English for work-related goals. Work-related topics will be used to foster the development of language skills. Emphasis will be on improving listening comprehension, oral communication, and reading comprehension. (F, Sp)

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ESLP 102 Comp for Bus and Tech Purposes

Prerequisite: ESLP 032 2.0 minimum or ESLP 035 2.0 minimum or Placement Test

This course is designed for advanced level non-native speakers of English who will use English for business or technical purposes using a variety of complex sentences and grammatical structure. Students will use a process approach to produce business letters of various types, short reports, and memos. (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 2.0 minimum or ESLP 034 2.0 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

Prereguisite: ESLP 110 2.0 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 strategies 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 2.0 minimum or ESLP 035 2.0 minimum or

Writing Level 2

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).

ESLW - ENGLISH AS A SECOND LANGUAGE WORKSHOP

ESLW 020 ESL Summer Workshop

Prerequisite: Placement Test

This integrated skills course is designed for low to high intermediate non-native speakers of English who wish to improve their oral-communication, writing, and reading skills through in-class activities, guest lecturers, and field trips. Students in this class will form cooperative learning groups to work on a variety of projects. (F, Sp, Su)

ESLW 021 ESL Fall Workshop

Prerequisite: Placement Test

Designed for low to high intermediate non-native speakers of English who wish to improve listening, speaking, reading and writing skills using themes presented in video episodes or readings. Language learning is encouraged through cooperative group activities, interviews, role plays, oral presentations, and projects. May be repeated once for credit. (F, Sp, Su)

ESLW 022 ESL Spring Workshop

Prerequisite: Placement Test

Continuation of ESLW 021. Designed for low to high intermediate non-native speakers of English who wish to improve listening, speaking, reading and writing skills using themes presented in video episodes or readings. Language learning is encouraged through cooperative group activities, interviews, role plays, oral presentations, and projects. (Sp)

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FILM. FILM PRODUCTION AND DIRECTION

FILM 118 Film Production I

Prerequisite: None

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Introduces storytelling practices using sound and pictures. Students will learn to plan and produce short programs, developing basic skills in plot structure, staging scenes, photography, sound recording, editing, and audience evaluation. (F, Sp, Su)

FILM 203 Topics in Film/Animation

Prereguisite: 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 226 Film Production II

Prerequisite: FILM 118 2.0 minimum or IMAG 118 2.0 minimum

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 on Avid non-linear editing techniques. (F, Sp)

FILM 227 Film Production III

Prerequisite: FILM 118 2.0 minimum or IMAG 118 2.0 minimum Hands-on production exercises help the student develop skills in script writing, directing, working with dialogue shooting, and editing sync sound. Students work individually and as group members and apply critical thinking and problem-solving processes to produce creative, dramatic, and effective communications programs. (F. So)

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 Introduction to Fire Fighting

Prerequisite: None

An introduction to fire fighting with an overview of fire chemistry, fire fighting equipment and safety, types of department, apparatus, special techniques of rescue, future of fire service, customer service, fire prevention, and public education. (F, Sp)

FIRE 101 MI F.F.T.C. Basic Fire Lev I

Prerequisite: Admission to Fire Academy

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, Su)

FIRE 102 MI F.F.T.C. Basic Fire Lev II

Prerequisite: FIRE 101 2.0 minimum or Concurrently

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, Su)

FIRE 110 Fire Prevention and Law

Prerequisite: None

This course identifies applicable statutes of Michigan Law as they relate to the Fire Service. Covers selected portions of NFPA 101, the Life Safety Code, appropriate portions of BOCA, and other building codes. Focuses on the importance of an aggressive fire prevention plan in communities. (F)

FIRE 115 Building Construction/Fire Ser 4

Prerequisite: None

This course involves the essentials of building design and construction for the fire service with emphasis on life safety, evacuation, fire extension, and collapse. (F)

FIRE 120 Chemistry/Hazardous Materials

Prereguisite: None

A college-level chemistry course focusing on hazardous materials encountered by fire fighters. Contains specific elements of NFPA 741, 742 and OSHA CFR 1041.120. Topics include atomic and molecular theory, bonding property of elements, oxidation and reduction reactions, kinetic-molecular theory, solutions, and electrochemistry, includes Michigan Haz-Mat First Responder Certification. (F)

FIRE 125 Fire Protection Sys/Equipment

Prerequisite: None

Identifies fixed systems typically encountered by fire fighters responding to industrial complexes or specialized environments. Emphasizes selected portions of detection and alarm (NFPA 72-85), sprinklers and standpipes (NFPA 13 and 1964), and special systems and design. (F)

FIRE 130 Fire Hydraulics/Pump Operation

Prerequisite: MATH 050 2.0 minimum or Math Level 4

Describes the fundamentals of hydraulics, including water supply problems, standards and pump requirements, and practical application of knowledge to fire fighting problems. Includes selected portions of NFPA 1901 and 1002. (Sp)

FIRE 150 Fire Command and Operations

Prereguisite: None

Recommended: FIRE 102 or Firefighter This course centers on the initial fireground attack from a company officer's perspective. Deals separately with Engine and Truck Company Operations including initial assignments, use of resources, rescue, streams, and salvage. Covers selected portions of NFPA 1002, 1410, 1904, and 1961. Covers the National Fire Academy Incident Command System. (Sp)

FIRE 210 Fire Investigation

Prerequisite: None Recommended: FIRE 101 or Firefighter

This course investigates fire behavior, importance of determining cause and origin, accidental, incendiary, or arson type fires. Describes methods of recognizing and identifying motivation for arson and covers applicable laws and court procedures. (Sp)

FIRE 220	Hazardous Materials/Fire Ser	4
Prerequisit	e: None	

Recommended: FIRE 120 or Firefighter

Explores the concepts and methods of detection, control, and mitigation of hazardous materials incidents. Contains specific elements of NFPA 741, 742, and OSHA CFR 1041,120, Includes Michigan Haz-Mat Operations Level Certification. (Sp)

FIRE 250 Fire Administration

Prerequisite: None

Recommended: FIRE 150 or Firefighter This course provides the student with a better understanding of motivation and the

proper reaction from management. Covers labor relations and collective bargaining, fiscal management, and political interaction. Presents modern approaches to the challenges which face today's fire executives. (Sp)

FLNG - FOREIGN LANGUAGE

FLNG 295 Ind Study in Foreign Language

Prerequisite: Department Approval

Special research projects and/or individual readings in Chinese, French. German, Japanese or Spanish. Students will invest no less than 32 hours for each credit earned. Enrollment is usually restricted to Honors students who have grade-point averages of at least 3.0 in courses ofered by this department. (F. Sp. Su)

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Prerequisite: Reading Level 5

GEOG 203 Economic Geography

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

Independent project involving reading and research in geography. The project, chosen by the student, must be approved in advance by the department chair and be supervised by a faculty member. It must also meet specific academic goals. (F. Sp. Su)

GEOL: GEOLOGY

GEOL 210 Geology Field Studies

Prerequisite: None

Opportunities to gain geology field experience through application of skills learned in the classroom. One-day and extended overnight excursions are offered. (Destination examples: Michigan gypsum mines, Michigan Upper Peninsula iron and copper country, Cincinnati fossil beds, Grand Ledge quarries, Western U.S. regional geology, etc.) (Su)

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

environment. (Sp)

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, recon-

struction of past ecosystems, geologic maps, and plate tectonics' influence on the

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: GEBO 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. (Sp)

GERO 119 Age Process: Facts/Myths/Chrigs

Prerequisite: None

This course includes an overview of facts and myths associated with older adults. including normal physical changes and their implications; social/emotional aspects of aging, including communication issues; and federal, state, and local resources for the older adult, (F, Sp)

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FREN 115 Conversational French I

Prerequisite: None

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

Prerequisite: 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)

FREN 121 Elementary French I Prerequisite: Reading Level 5

Introductory course open to students with little or no knowledge of French. Students are introduced to basic patterns and structures of French, enabling them to develop listening, speaking, reading, and writing skills. Emphasis is placed on contemporary vocabulary, essentials of grammar, and pronunciation. (F, Sp, Su)

FREN 122 Elementary French II

Prerequisite: FREN 121 1.5 minimum and Reading Level 5 Second course of a two-semester sequence, introduction to more complex structures and patterns, and more active use of spoken and written French, (Sp)

FREN 201 Intermediate French I

Prerequisite: FREN 122 1.5 minimum and Reading Level 5

First course of a two-semester sequence. Course provides grammar review, vocabulary building, listening comprehension, composition writing, group discussions, and readings of literary and cultural texts, short stories, and news articles for a better understanding of the francophone world. (F)

FREN 202 Intermediate French II

Prerequisite: FREN 201 1.5 minimum and Reading Level 5

Second course of a two-semester sequence. Course includes a review of more complex grammar topics, readings of cultural and literary texts, short stories, and newspaper articles for a better understanding of the francophone world. Students will improve fluency through listening-comprehension, writing, and discussions in the target language. (Sp)

GEOG GEOGRAPHY

GEOG 120 Introduction to Geography

Prerequisite: Reading Level 5 Recommended: WRIT 121

An introductory course designed to provide contemporary geographic ideas and techniques to study the interaction between people and their physical environment. (F)

GEOG 121 Physical Geography

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: Word Software Experience

Emphasizes landforms, natural vegetation, weather and climatic elements, and soils. Offers an extensive study of these forces, noting their ecological principles and their effects on human life. Includes computer mapping techniques, land site analysis, and air-photo interpretation. (F, Sp, Su)

GEOG 200 World Regional Geography

Prerequisite: Reading Level 5

This course describes and analyzes human relationships with the natural and cultural environment and examines the physical and cultural aspects of the major regions of the world. International interdependency is examined to promote global awareness. (F, Sp. Su)

GEOG 202 Geography of North America

Prerequisite: Reading Level 5

A study of the human and physical aspects of North America. This course will identify some of the factors that influence the quality of life and give character to each of the various subregions. (Sp)

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GERO 131 PI	n for	Older	Adlts	w/Dev	Dis
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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)

.25 GERO 161 Issues of Aging: Sexuality

Prerequisite: None

This course presents an overview of issues relating to sexuality and older persons. Topics are societal attitudes, sexual behavior patterns, physiological changes, psychological responses, and special situations, such as institutional settings. (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 resulting in 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)

GERO 171	Tech: Care for Persons w/Demen	.75
GERU 173	lech: Care for Persons w/Demen	

Prerequisite: None

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

Prerequisite: 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)

.25-.5 GERO 191 Seminar: Special Subjects

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. (F)

GERO 282 Gerontology Practicum I

Prerequisite: SOWK 203 2.5 minimum and Reading Level 5 and Writing Level 6 and Department Approval

Recommended: GERO 100 and GERO 101 and GERO 203 and HUSE 101 and Human Services Experience

This course combines classroom training with field placement (10 hours per week) at a community agency or institution serving older persons. Students apply learning about structure, funding, and organization of aging services; explore community resources; demonstrate appropriate work habits; assess their attitudes and career skills in gerontology, and relate current aging research to practice. (F)

GERO 284 Gerontology Practicum II

Prerequisite: GERO 282 2.5 minimum

This course provides advanced field placement experience at a community agency or institution serving older persons (10 hours per week), combined with classroom training in practice concepts related to service delivery to older persons. Students learn resources and systems, develop networking skills, mobilize resources on behalf of older individuals or groups, and demonstrate their suitability for a career in gerontology. (Sp)

GRET GEOGRAPHIC INFORMATION SYSTEMS

GRET 203 Beginning MicroStation

Prerequisite: None

Recommended: 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. (F, 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 208 Advanced Techniques in GIS

Prerequisite: GRET 204 1.0 minimum

This course expands upon the techniques, methods, and processes involved in developing a full GIS program. Different GIS software packages will be explored, as well as related databases and completed projects. (F, Sp)

GRET 209 Applications in GIS

Prerequisite: GRET 205 1.0 minimum and GRET 208 1.0 minimum

This course specifically deals with all of the possible application areas for GIS, both present and future. Applications such as toxic materials, traffic flow, mining, forestry, natural resource, energy, and communication will be highlighted. A semester-long application project of your choice will be developed on the computer. (Sp)

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. (F. Sp) #

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GRET 213-HIST 150

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Prerequisite: GRET 203 2.0 minimum

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 for success in this class. (F, Sp)

GRET 220 Hydrological Systems 3

Prereguisite: 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 development will be highlighted. (F)

GRET 221 Landforms/Soil Systems in GIS

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 planning, site design, and landscape form arenas will be emphasized. (Sp)

GRET 223 Environmental Resource Mgmt

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 processes, both public and private. (Sp)

GRET 240	Cartography in GIS	3

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 along with how to read, print, and design maps will also be covered. (F)

GRET 241 Remote Sens/AirPhoto Interpret

Prerequisite: None

This 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 243 ORACLE/Geographic Info Sys		Э
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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 coverage layers. (F, Sp)

GRET 248 GIS/GPS Field Systems

Prerequisite: None

MicroStation Analyst (MGA) is an advanced software package dealing with GIS 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 questions posed to topological files. (F, Sp)

GRET 253 Basics of ARC/View

Prerequisite: None

This course is an overview and introduction to the ARC/View software. Also covered 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/Info

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 Systems. Basic product use and modeling will be demonstrated. There will be hands-on experience in the lab. (F, Sp, Su)

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GRET 256 Advanced ARC/Info

Prerequisite: GRET 255 2.0 minimum This course advances the techniques acquired in the beginning ARC/INFO class. The student will learn additional modules and advanced application of modules such as GRID and TIN. The student will also develop projects using data sets. Students will develop a complete GIS project utilizing the full ARC/INFO module. (F, Sp)

GRET 295 GRET Project Lab

Prerequisite: Department Approval

This project lab is designed for students who wish to pursue a specialty area in GIS beyond that which is offered in our curriculum. Inquiry through research and design is required. (F, Sp, Su)

GRMN - GERMAN

GRMN 115 Conversational German I

Prerequisite: None

The first course in a two-semester sequence for persons with little or no knowledge of German. Emphasizes listening and speaking skills. Students learn correct pronunciation, essential language structures, and a practical vocabulary applied in conversational exchanges. Aspects of German culture are introduced through multimedia presentations. (F, Sp, Su)

GRMN 116 Conversational German II

Prerequisite: None

Recommended: GRMN 115 or Equivalent

The second course in a two-semester sequence for persons with little or no knowledge of German, Emphasizes listening and speaking skills. Students learn correct pronunciation, essential language structures, and a practical vocabulary applied in conversational exchanges. Aspects of German culture are introduced through muitimedia presentations. (F, Sp, Su)

GRMN 121 Elementary German I

Prerequisite: Reading Level 5

First course of a two-semester sequence in elementary German. This course offers systematic practice in the four basic language skills: listening comprehension, speaking, reading, and writing. Communicative approach is combined with a solid grammar foundation, as well as familiarization with contemporary life and culture in Germany, Austria, and Switzerland, (F)

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 course offers more advanced practice in the four basic language skills: listening comprehension, speaking, reading, and writing. Communicative approach is combined with more complex structure as well as familiarization with contemporary life and 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. Students receive intensive practice in the basic skills: speaking, listening comprehension, reading, and writing. Course includes a thorough review of German grammar, 20th century short story readings, composition writing, and German culture. Class is taught mainly in German. (F)

GRMN 202 Intermediate German II

Prerequisite: GRMN 201 1.5 minimum and Reading Level 5

Second course of a two-semester sequence in intermediate German. Students receive advanced practice in the basic skills: speaking, listening comprehension, reading, and writing. Course includes a thorough review of advanced structures, short story readings, a short novel, composition writing, and German culture. Class is taught mainly in German. (Sp)

HIST HISTORY

HIST 150 African-American History

Prerequisite: Reading Level 5

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)

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HIST 210 Studies in American History

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. (Sp)

HIST 211 U.S. History to 1877

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Prerequisite: Reading Level 5 and Writing Level 6

A history of the United States from colonial beginnings through reconstruction. (F, Sp, Su) $% \left(F,Sp,Su\right) =0$

HIST 212 U.S. History: 1877 To Present

Prerequisite: Reading Level 5 and Writing Level 6

A history of the United States from the end of reconstruction to the present. (F, Sp, Su)

HIST 214 African History

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or

(Reading Level 5 and Writing Level 6)

Surveys African history with emphasis on precolonial and colonial Africa, nationalism and the struggle for independence, colonialism and economic development/underdevelopment, and cultures and traditions as factors in development. Covers some of these topics in three other countries of the Third World (e.g., Brazil, Pakistan, and Indonesia). (F)

HIST 220 Michigan History

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or

(Reading Level 5 and Writing Level 6) A survey of the political, economic, and social development of Michigan from pre-

colonial times to the present. (F)

HIST 230 British History

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

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)

HIST 240 Latin American History

Prerequisite: Reading Level 5

Recommended: WRIT 121 or WRIT 131 2.0 minimum

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 4

Prerequisite: Reading Level 5

Recommended: WRIT 121 or WRIT 131 2.0 minimum

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: Russia and the CIS

Prerequisite: None

A survey of Russia and its people from the Russian Revolution of 1917 to the present. Also examined will be the multinational character of the former USSR and the forces that shaped Soviet history, society, and politics, including U.S.-Soviet relations. (Su)

HIST 265 Sem: American Legal Tradition

Prerequisite: None

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

Prerequisite: Department Approval Special research projects and/or individual readings in history. Students will invest no less than 32 hours for each credit earned. Enrollment is usually restricted to honors students who have grade point averages of at least 3.0 in courses offered by this department. (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

Prerequisite: None

Safe food handling, prevention of food spoilage 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)

HMFS 131 Food and Beverage Management

Prerequisite: HMFS 101 2.0 minimum or Concurrently

Recommended: HMFS 110 2.0 minimum

Overview of food preparation with focus on management issues and quality. Includes laboratory activities to practice safe operation of equipment, to plan, prepare, serve and manage complete meals for public consumption. Cost controls, purchasing, and beverage management discussed. (F, Sp)

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

Advanced food preparation procedures with guidelines on organization of food and beverage production. Food purchasing and proper storage prior to production is examined. Includes terminology, theory, planning, organization, productivity techniques, costing, purchasing, sales, service and management of meals (or 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, Sp)

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. (F, Sp)

HMFS 190 Internship and Seminar

Prerequisite: HMFS 101 2.0 minimum

Recommended: Minimum 2.0 in HMFS 131 and HMFS 204

Hands-on experience in an operating foodservice facility, lodging property or travel operation that supplements and illustrates classroom discussions of principles, techniques and procedures commonly practiced in the industry. Development of professional portfolio included plus a minimum of 200 hours of approved paid work experience. (F, Sp)

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HMFS 203-HMFS 273

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HMFS 203 Hospitality Law

Prerequisite: HMFS 101 2.0 minimum 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. (F, 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 and HMFS 204 2.0 minimum) or

Concurrently

Recommended: HMFS 131 and HMFS 203

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)

HMFS 206 Rooms Division Management

Prerequisite: HMFS 101 2.0 minimum or Concurrently

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. (F, 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. (F)

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) 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 131 2.0 minimum and HMFS 203 2.0 minimum and HMFS 205 2.0 minimum

Recommended: Minimum 2.0 in HMFS 206 and HMFS 215

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)

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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 $\rm irom$ California, New York, Michigan and Ohio. Comparative taste evaluations and $\rm discussion$ of food compatibility. (F, Sp)

HMFS 253 Wines of France

Prerequisite: Must be 21 Years of Age and (HMFS 251 or HMFS 252)

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, Burgondy, 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 sanitation 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, Su)

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 Gourmet American Cookery

Prerequisite: None Recommended: HMFS 110

Explore why the U.S. is considered "the Melting 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

HMFS 264 Gourmet Barbecue Cookery

Prerequisite: None

safety practices, (F)

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 pionics! 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 sweei 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. (F, 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, Sp, Su)

HMFS 273 Gourmet Cajun Cookery

Prerequisite: None

Recommended: HMFS 110

Louisiana 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)

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HMFS 274 Gourmet Lean Cookery 2	HORT 102 Intro Ornamental Horticulture 2
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 composi- tion and making healthier food choices through improved purchasing decisions. Preparation and evaluation of meals included; opening and closing kitchen proce- dures practiced. (F, Sp, Su)	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 Foliage and Flowering Plants 2
HMFS 275 Bakery Products 2	Prerequisite: None
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,	This hands-on oourse 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)
pastries and cookies made in a commercial bakery. Scratch and convenience lines examined and tested. (F, Sp)	HORT 105 Pest/Problem Ornamental Plants 2
HMFS 276 Ice Carving Seminar .5 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)	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)
HMFS 260 Food Decorating Garnishes 3	HORT 107 Beginning Floral Design 2
Prerequisite: None Recommended: HMFS 110 and HMFS 132 Garnishing and presentation of various cold foods such as canapes, hors d'oeu- vres 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)	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 2
HMFS 281 Soups and Sauces 3 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)	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 transfer- ring techniques to stylized arrangements. This is a hands-on course with partici- pants working with floral materials each week. (F, Sp)
	HORT 110 Wedding Floral Design 2
HONR - HONORS	Prerequisite: None
HONR 151 Honors Colloquy I 1 Prerequisite: Honors Program Approval Interdisciplinary forum for Honors Program members and other interested stu- dents. Includes presentations by experts in such fields as the arts, business, com- winding, education, humanifus, generating, the homotion, price of the	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 colo nial, cascade, crescent, and arm bouquets. This is a hands-on class with students working with floral materials each week. (F, Sp, Su)
munication, education, humanities, government, mathematics, science, and the social sciences, followed by discussion. Topics concerning international issues, discussion and technology are discussed. Students with evening the social production of the feature of the student with evening the sector of technology are discussed.	HORT 143 Cut Flower, Foliage, Pot Plant 4
diversity, and technology are often featured. Students write essays reacting to each presentation. (F)	Prerequisite: None The functional aspects of plant material commonly found in the floriculture indus- try will be covered. The identification of cut flowers, cut foliage, and potted and

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HONR 152 Honors Colleguy II

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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 Service Learning Practicum

Prerequisite: Honors Program Approval

A practicum course 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)

HORT - HORTICULTURE

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, floral shop operators, retail garden centers, and garden suppliers wholesalers. (F, Sp)

HORT 230 Plant Propagation/Nursery Op

greenhouse grower, or landscape designer. (F, Sp, Su)

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)

foliage plants will be required. A course that would benefit the floral designer,

HORT 235 Greenhouse Structures/Environ

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Prerequisite: None

This course is en 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 a 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)

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HOAT 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

Prerequisite: 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

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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 research is required. (F, Sp, Su)

HUMS - HUMANITIES

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 160 Mythology

Prerequisite: Reading Level 5

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: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

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: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or

(Reading Level 5 and Writing Level 6)

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

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Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

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: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or

(Reading Level 5 and Writing Level 6) 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. (F. Sp, Su)

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HUMS 215 American Civilization

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

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. (F, Sp, Su)

HUMS 225 Grt Lake Native Amer:Hist&Trad

Prereguisite: 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 languege. (F, Sp, Su)

HUMS 260 Seminar: Ancient Egypt

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or

(Reading Level 5 and Writing Level 6) 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 Independent Study

Prerequisite: Department Approval

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Special research projects and/or individual readings in humanities. Students will invest no less than 32 hours for each credit earned. Enrollment is usually restricted to honors students who have grade point averages of at least 3.0 in courses offered by this department. (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 orientation to and overview of methods and problem-solving skills used by human service workers in a variety of settings. (F, Sp, Su)

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 Introduction/Substance Abuse

Prerequisite: None

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This course reviews substance abuse and use from a historical, sociological, and psychological perspective. It includes drug classifications, street terminology, causes of abuse, and also examines present and past legislation regarding substance abuse and use. (F, Sp, Su)

HUSE 120 Introduction/Family Violence

Prerequisite: None

This course provides an overview of the historical, socioeconomic, cultural, 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)

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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 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 241 Substance Abuse Prevention

Prerequisite: HUSE 112 2.5 minimum

This course provides a developmental framework for a better understanding of the factors contributing to substance abuse prevention. It facilitates students' abilities to critique existing programs, identify current community needs, and address the growing demand for consultation and assistance in the field of substance abuse prevention. (Sp)

HUSE 242 Chemically Dependent Family

Prerequisite: None

Recommended: HUSE 112

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. (F)

HUSE 244 Sub Abuse:Treatment, Intrv

Prerequisite: HUSE 112 2.5 minimum

This course covers the addiction cycle of alcoholics and drug abusers, personality and interactional patterns of addiction, and casework and group work techniques. It provides an analysis of current models of treatment within programs, including review of inpatient, outpatient, halfway houses, and occupational programs. (F)

HUSE 282 Human Services Practicum I

Prerequisite: SOWK 203 2.5 minimum and Reading Level 5 and Writing Level 6 and Department Approval

Recommended: HUSE 101 and (SOCL 254 or SOCL 260) and

Human Services 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)

HUSE 286 Substance Abuse Practicum I

Prerequisite: SOWK 203 2.5 minimum and Reading Level 5 and Writing Level 6 and Department Approval

Recommended: HUSE 101 and HUSE 240 and HUSE 241 and HUSE 244 This course combines classroom training with beginning field placement (10 hours per week) at a community agency specializing in substance abuse. Content focuses on the community power structure, funding bases, and the internal workings of substance abuse agencies. It explores opportunities in the labor force, certification requirements, and networking. (F)

HUSE 288 Substance Abuse Practicum II

Prerequisite: HUSE 286 2.5 minimum

This course combines advanced field placement (10 hours per week) at a community agency specializing in substance abuse, with classroom instruction in concepts related to service delivery. Students identify systems and resources to link the systems with the people receiving services and learn how to mobilize the sys tems and the people. (Sp)

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

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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. (E. 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 humidifiers, 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. Both the Uniform Mechanical Code and the Building Officials and Code Administrators (BOCA) 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)

HVAC 221 Introduction to Hydronics

Prerequisite: HVAC 220 1.5 minimum

Covers hot water and steam residential heating systems, piping and all accessories, safety controls, expansion tanks, zone valves, installation procedures and codes. Students perform testing, troubleshooting, adjusting and servicing of components to insure maximum efficiency. (F, Sp)

HVAC 230 Air Conditioning II

Prerequisite: HVAC 111 1.5 minimum and HVAC 130 1.5 minimum and

HVAC 211 1.5 minimum

Advanced air conditioning, light commercial equipment, water cooled units, cooling 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)

HVAC 231 Heat Pump

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)

HVAC 240-IMAG 113

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HVAC 240 Refrigeration I Prereguisite: 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)

HVAC 241 Refrigeration II

Prerequisite: HVAC 240 1.5 minimum Light commercial refrigeration to include low and medium temperature applications, as applied to ice machines, walk-ins, reach-ins and display cases. (Sp)

HVAC 250 Pneumatic Control

Prerequisite: HVAC 230 1.5 minimum Basic concepts of pneumatic controls for HVAC equipment in commercial structures and the adjustment and calibration of pneumatic equipment. (Sp)

HVAC 251 Fund of Direct Digital Control

Prereguisite: HVAC 250 1.5 minimum

Fundamentals and principles of Direct Digital Controls will be covered. The major emphasis will be placed on computer based energy management systems to increase efficiency of HVAC/R commercial and industrial equipment. (F)

IDMS - DIAGNOSTIC MEDICAL SONOGRAPHY

IDMS 200 Sonographic Introduction

Prerequisite: Admission to Diagnostic Medical Sonography Program

Co-requisite Courses: IDMS 201 and IDMS 202 and IDMS 280

Introduction to sonography including equipment history, criteria, limitations of ultrasound, and sonographer ethics. General information provided regarding patient preparation, history/clinical correlation, and basic nursing care specific to ultrasound. Strong emphasis on terminology and abbreviations most commonly used with ultrasound. (F)

IDMS 201 General Sonography I: Abdomen

Prerequisite: Admission to Diagnostic Medical Sonography Program

Co-requisite Courses: IDMS 200 and IDMS 202 and IDMS 280 Provides the student with cross-sectional anatomy and pathology as it relates to sonographic scanning of the abdomen, vascular system, thyroid, prostate, scrotum, breast, and neurology of the neonate. (F)

IDMS 202 OB/GYN Sonography I

Prerequisite: Admission to Diagnostic Medical Sonography Program

Co-requisite Courses: IDMS 200 and IDMS 201 and IDMS 280

Provides the student with cross-sectional anatomy and pathology as it relates to gynecological and obstetrical sonography. Fetal cardiac anatomy and appearance will be presented. (F)

IDMS 234 Sonographic Physics

Prerequisite: IDMS 200 2.5 minimum and IDMS 201 2.5 minimum and IDMS 202 2.5 minimum

Co-requisite Courses: IDMS 265 and IDMS 266 and IDMS 281

The student will study the fundamental principles of acoustical physics, how sound is produced and manipulated, and how it reacts in various mediums. (Su)

IDMS 245 Sonographic Instrumentation

Prereguisite: IDMS 234 2.5 minimum

Co-requisite Course: IDMS 283

The student will be introduced to the mechanics of A-Mode, M-Mode, Doppler, and Real-time equipment. Accessory equipment such as the camera, transducer, and cathode ray tube will be presented. Methods of quality assurance will also be presented. (F)

IDMS 265 General Sonography II

Prerequisite: IDMS 201 2.5 minimum

Co-requisite Courses: IDMS 234 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, vascular system, and small parts. (Sp)

IDMS 266 OB/GYN Sonography

Prerequisite: IDMS 202 2.5 minimum Co-requisite Courses: IDMS 234 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)

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IDMS 280 Clinical Experience I

Prerequisite: Admission to Diagnostic Medical Sonography Program Co-requisite Courses: IDMS 200 and IDMS 201 and IDMS 202

First course in a four-semester sequence of clinical application in diagnostic medical sonography. Clinical experience is provided 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. (F)

IDMS 281 Clinical Experience II

Prerequisite: IDMS 280 2.5 minimum

Co-requisite Courses: IDMS 234 and IDMS 265 and IDMS 266

Building on material presented in IDMS 280, this is the second course in a foursemester sequence in diagnostic medical sonography. Clinical experience is provided under the direct supervision of an ARDMS Registered Sonographer. Clinical competencies will be given corrasponding to completed didactic work. Performance standards are used to evaluate the student's progress. (Sp)

IDMS 282 Clinical Experience III

Prerequisite: IDMS 234 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 third course in a four-semester sequence of clinical application in diagnostic medical sonography. Clinical experience is provided 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. (Su)

IDMS 283 Clinical Experience IV

Prerequisite: IDMS 282 2.5 minimum

Co-requisite Course: IDMS 245

Building on material presented in IDMS 282, this is the final course in a foursemester sequence of clinical application in diagnostic medical sonography. Clinical experience is provided under the direct supervision of an ARDMS Registered Sonographer. Clinical competencies will be given corresponding to complete didactic work. (F)

IMAG - PHOTOGRAPHY TECHNOLOGY

IMAG 101 Basic Photog for Non-Majors

Prerequisite: None

Students will learn to use carnera controls, exposure controls, photographic composition, and lighting to make better photographs. Color film and commercial processing 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)

IMAG 102 Advanced Photo for Non-Majors

Recommended: IMAG 101

A continuation of IMAG 101. Students will learn to apply advanced design concepts, techniques, and accessories for problem solving and creative image making. Color film and commercial processing will be used. For students who do not plan to major in imaging technology. (F, Sp)

IMAG 111 Intro to Photographic Tech I

Prerequisite: Reading Level 3 and Writing Level 2 and Math Level 3

Introduces students to photographic technology on both a theoretical and practical 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 first of a two-course sequence for imaging technology majors. (F, Sp, Su)

IMAG 112 Design for Imaging Tech

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Prerequisite: (IMAG 101 2.0 minimum or IMAG 111 2.0 minimum) or Concurrently. 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 design elements and principles to their evolving work. (F, Sp, Su)

IMAG 113 Lighting Concepts/Applications

Prerequisite: (IMAG 101 2.0 minimum or 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 profes sional continuous and electronic flash equipment to produce acceptable images. (F, Sp, Su)

IMAG 114-IMAG 228

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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, Su)

IMAG 115 Color Directed Study

Prerequisite: IMAG 114 2.0 minimum or Concurrently

Introduces student to practical applications of contemporary color photographic materials and processes. Student will learn through laboratory experiences, demonstrations, and other direct involvement with color imaging materials and equipment. Designed to increase the student's technical working knowledge and problem solving skills when working with currently available color photographic materials, (F. So, Su)

4 IMAG 117 Intro to Photographic Tech II

Prereguisite: 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, Su)

IMAG 119 Intermediate Lighting

Prerequisite: IMAG 113 2.0 minimum or IMAG 118 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, Su)

IMAG 120 Photographic Technology Lab

Prereduisite: IMAG 117 2.0 minimum

Designed for students whose lack of photographic competencies prevent their continuation in the Imaging Technology Program above the 100 level. Individualized learning objectives are formulated for each student. Successful completion of these objectives will allow the student to continue into the 200 level course sequence. (Sp. Su)

IMAG 121 Imaging Technology

Prerequisite: None

A survey of the imaging technology field, including the role of the imaging professional, materials, processes, and new technology as related to advertising, communications, film/multimedia, illustration, portrait, and self-expression. Includes an overview of projected employment opportunities in imaging technology. (F)

IMAG 122 Imaging Technology Forum

Prereauisite: None

Students will learn through demonstration, laboratory experiences, and other direct involvement in imaging technologies, includes presentations, demonstrations, and workshops that expose students to the current state of development in the areas of hybrid imaging and emerging technologies. (Sp)

IMAG 201 Topics Commercial Photography

Prerequisite: IMAG 113 2.0 minimum and IMAG 117 2.0 minimum

Exposes students to photography for commercial use. Students will explore various tools, techniques, methodologies, principles, and opinions as applied to commercial photography. Designed to sharpen students' technical and aesthetic knowledge and skills in order to better compete in the commercial photographic market. (F, Sp, Su)

IMAG 202 Topics in Photo Communication

Prerequisite: IMAG 117 2.0 minimum

Designed for intermediate and advanced students to enhance their competencies and explore areas of interest using still photography in combination with words. Emphasis on communicating clear messages to mass media audiences through documentary photography, newspaper and magazine photojournalism, and public relations photography. (F, Sp, Su)

IMAG 204 Topics in Imaging Self-Express

Prerequisite: IMAG 117 2.0 minimum

An exploration of self-expression through various imaging technology-based tools. processes, and thought. Students will create process-based images and will research, discuss, critique, formulate opinions, and establish personal goals in order to better understand and practice personal style and expression. (F, Sp, Su)

IMAG 205 Topics in

Prerequisite: ARTS 171 2.0 minimum Designed for intermediate and advanced students to enhance their competencies and explore the areas of emerging hybrid imaging tools and techniques. (F, Sp, Su)

IMAG 206 End Technologies

Prerequisite: IMAG 117 2.0 minimum

Designed for intermediate and advanced students to enhance their competencies and knowledge in the area of currently available image output technologies. (F, Sp, Su)

IMAG 207 Imaging Issues

Prerequisite: IMAG 117 2.0 minimum or IMAG 118 2.0 minimum An exploration of historical, ethical, and aesthetic issues relating to imaging technology, Intended to help students better understand, appreciate, and make aesthetic judgments about historical, contemporary, and future imaging technology issues. (F, Sp, Su)

IMAG 208 Input Processes

Prerequisite: IMAG 117 2.0 minimum

Designed for intermediate and advanced students to enhance their competencies and knowledge in the areas of currently available image input and creation technologies. (F, Sp, Su)

IMAG 210 Intermediate Color Ap and Tech

Prerequisite: IMAG 114 2.0 minimum and IMAG 117 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. Sp. Su)

IMAG 211 Advanced Color Appl and Tech

Prerequisite: IMAG 210 2.0 minimum (previously IMAG 222) A continuation of IMAG 210 that involves the advanced student with color as a critical communication tool. Students, individually and as team members, will learn to produce highly effective and professionally acceptable photographs with color transparency film. A high level of technical accomplishment and aesthetic devel-

IMAG 220 Intermed Still Imaging Tech

opment will be reached. (F, Sp)

Prerequisite: IMAG 114 2.0 minimum and IMAG 117 2.0 minimum and

(IMAG 210 2.0 minimum (previously IMAG 222) or Concurrently) Introduces the still imaging student to large format and medium format imaging technologies and their diverse applications. Students will work in areas directly linked to the technical and expressive elements of these formats. Camera applications will include commercial illustration, fine art, and portrait techniques. (F, Sp)

IMAG 221 Advanced Still Imaging Tech

Prerequisite: IMAG 220 2.0 minimum and (IMAG 211 2.0 minimum (previously IMAG 223) or Concurrently)

Introduces students to techniques and practices of photojournalism, documentary photography, and public relations photography. Historical and contemporary photographic styles that reflect the program's areas of emphasis will be examined. Students will apply critical thinking processes and imaging technologies to produce a portfolio of work illustrating their areas of special interest. (F, Sp)

IMAG 224 Emerging Image Technologies I

Prerequisite: IMAG 114 2.0 minimum and (IMAG 117 2.0 minimum or IMAG 118 2.0 minimum)

An intermediate-level course designed to expose imaging technology majors to the latest technological innovations affecting the areas of photography, imaging, and related fields. Course format will include lectures, discussion, demonstration. and hand-on experiences. (F, Sp)

IMAG 225 Emerging Image Technologies II

Prerequisite: IMAG 224 2.0 minimum

An advanced-level study that further explores the effects of new technologies and processes on the areas of photography and imaging. (Sp)

IMAG 228 Independent Study

Prerequisite: IMAG 117 2.0 minimum or (IMAG 226 2.0 minimum and IMAG 227 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. (F. Sp. Su)

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MAG 229 Advanced Imaging Applications

Prereguisite: IMAG 117 2.0 minimum or (IMAG 226 2.0 minimum and IMAG 227 2.0 minimum) and Approved Proposal

Allows advanced students to work on improving skills or to enhance skills in an area of strength or interest. Students will work with an instructor in a directed tearning experience. Acceptable written proposal required prior to registration. (F. Sp. Su)

IMAG 230 Imaging Technology Major t

Prerequisite: (IMAG 221 2.0 minimum and IMAG 211 2.0 minimum (previously IMAG 223)) or (IMAG 226.2.0 minimum and IMAG 227 2.0 minimum)

An advanced-level major concentration course, the first of a two-course sequence. Students will create images that are professionally acceptable visual solutions to problems typical of their chosen field. Emphasis is on critical thinking, problem solving, and refining technical, aesthetic, and communication skills. (F)

IMAG 231 Imaging Technology Major II

Prerequisite: IMAG 230 2.0 minimum or (IMAG 226 2.0 minimum and IMAG 227 2.0 minimum)

A continuation of IMAG 230. Continued emphasis on problem solving, critical thinking, and refining technical, aesthetic, and communication skills. Students will create professional quality images that may be included in the portfolio which is required for completion of the Imaging Technology Program. (Sp)

IMAG 232 Internship

Prerequisite: IMAG 117 2.0 minimum or (IMAG 226 2.0 minimum and IMAG 227 2.0 minimum) and Department Approval

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. Acceptable written application and internship egreement required prior to registration. (F, Sp, Su)

IMAG 233 The Business of Photography

Prerequisite: IMAG 114 2.0 minimum and IMAG 117 2.0 minimum Exposes the student to the general business practices and approaches used in the photographic marketplace. The student will learn to undertake market research, develop a marketing plan, understand and apply basic accounting and tax principles, prepare a business plan, and determine where their specialties and interests fit within the industry. (F, Sp)

IMAG 234 Portfolio Assembly/Degree Comp

Prerequisite: (IMAG 211 2.0 minimum (previously IMAG 223) and IMAG 221 2.0 minimum) or Concurrently

Concluding course for photo program associate degree. 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 or (IMAG 226 2.0 minimum and

IMAG 227 2.0 minimum) and Approved Proposal

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. Acceptable written proposal required prior to registration. (F, Sp, Su)

IMAG 240 Internship

Prerequisite: IMAG 117 2.0 minimum or (IMAG 226 2.0 minimum and IMAG 227 2.0 minimum) and Department Approval

Allows advanced students to work as interns developing competencies in the technical, business, creative, and communicative aspects of photography, film making, or electronic imaging. Acceptable written application and internship agreement required prior to registration. (F, Sp, Su)

INAU - INDUSTRIAL AUTOMATION

INAU 100 Intro Industrial Automation

Prerequisite: None

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)

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INAU 200 Applied Automation

Prerequisite: ELTE 122 2.0 minimum Provides experience in the operation, programming and set up of automated industrial equipment, including robots, vision equipment and industrial software. (F)

INSU - INSURANCE

INSU 121 Property Liability Ins Prin

Prerequisite: None

This course will cover the basic principles of insurance, an introduction to insurance contracts, and an overview of the nature and operation of the insurance business. (F)

INSU 122 Personal Insurance

Prerequisite: None

This course will cover the basic personal loss exposures and how they can be met through insurance such as automobile, homeowners, life, health, and others. It will also discuss governmental insurance for personal loss and how personal insurance affects society. (F, Sp)

INSU 123 Commercial Insurance

Prerequisite: None

This course will cover all major forms of commercial liability and property insurance. In addition to covering standard property and casualty forms, the course will also include boiler and machinery, farm, ocean marine, surety and excel, and surplus line coverage. (F, Sp)

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. (F, Sp)

INTR - INTERIOR DESIGN

INTR 100 Interior Design Fundamentals

Prerequisite: Reading Level 3 and Writing Level 2 Practical survey course for residential interior design and decoration. Topics include planning, selecting and arrangement of furnishings; scheduling and bud-

geting; and color schemes and identification of furniture styles as they relate to the

selection and coordination of home furnishings and accessories. (F, Sp) INTR 106 Interior Graphic Standards

Prerequisite: None

Recommended: Math Level 4

Students will learn how to draw floor plans, interior elevations and axonometric drawings using manual drafting techniques. Topics include drafting equipment, media, reproduction methods, lines, symbols, lettering, orthographics and sketching. (F, Sp)

INTR 110 Applied Color Design/Theory

Prerequisite: None

Recommended: Reading Level 3 and Writing Level 2

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 132 Interior Illustration

Prerequisite: None

Recommended: INTR 106 2.0 minimum or Equivalent This course is the study of three-dimensional visual and oral presentation techniques. Students will create perspective drawings and color renderings using a variety of media. (Sp)

INTR 140 Interior Drafting/Detailing

Prerequisite: None

Recommended: INTR 106 2.0 minimum or Equivalent Students will learn drafting techniques for interior design including floor plans, elevations, sections, axonometrics, cabinetry, and furniture detailing. Emphasis on developing residential construction documents for kitchens. (F)

INTR 151-INTR 263

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INTR 151	Computer-Aided Kitchen Design	
Prerequisit	e: None	
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Recommended: INTR 106 or ARCH 100 and Windows or Keyboarding This course is an in-depth study of kitchen planning, design, and remodeling through computer software applications. Lecture/Lab. (F, Sp, Su)

INTR 170 Intro to Interior Design

Prerequisite: Reading Level 5 and Writing Level 4

Recommended: INTR 100 2.0 minimum or Concurrently or Equivalent 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 175 Interior Space Planning

Prerequisite: None

Recommended: INTR 100 2.0 minimum and INTR 106 2.0 minimum

This course is a study of the theory and application of interior design. Emphasis is on developing the creative problem-solving process through programming and space planning methodology using graphic written and verbal presentation. Lecture/Lab. (Sp)

INTR 190 Interior/Materials/Equipment

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. (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. (F)

INTR 222 CADD for Interiors

Prerequisite: None

Recommended: INTR 140 and INTR 151 and CNCP 101

This first course in a series of three introduces students to the basic principles of computer assisted drafting and design. Students use computer software to create and print one and two dimensional interior design drawings with dimensions and notes. Students are expected to have college drafting experience and computer literacy. (F, Sp)

INTR 225	CADD for Space Planning		3
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Prerequisite: None

Recommended: INTR 222 or Equivalent

This second course in a series of three is the study of advanced computer assisted drafting and design applications. Manufacturers furniture symbol libraries will be used to create interior design and space planning drawings with systems furniture. (Sp)

INTR 230 World Decorative Arts

Prerequisite: None

Recommended: Reading Level 5 and Writing Level 4

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)

INTR 231 Period Interiors

Prerequisite: None

Recommended: Reading Level 5 and Writing Level 4

This course is a study of the decorative art periods including furniture, interior architecture, textiles, and accessories from the Italian Renaissance to the nineteenth century western industrial revolution. (Sp)

INTR 232 Twentieth Century Interiors

Prerequisite: None

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Recommended: Reading Level 5 and Writing Level 4

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. (F, Sp)

INTR 240 Fundamentals of Lighting Prerequisite: None

Recommended: INTR 106 2.0 minimum or ARCH 100 2.0 minimum or Equivalent This course introduces color and light as a design element for residential and commercial applications, creating reflected ceiling plans and power plans, and preparing calculations for lighting needs, environmental systems, heating, cooling and solar passive. (F)

INTR 244 3-D Visual Display Studio

Prerequisite: None

Recommended: INTR 110 and INTR 132 and INTR 170 Students will study interior design and lighting in three-dimensional spaces and apply the principles and element of design within an existing building context or create a new space such as kiosks. Students will communicate with their solutions using floor plans, elevations, reflected ceiling plans, color rendered perspectives

and axonometrics. (F) INTR 246 Residential Interiors Studio 3

Prerequisite: None

Recommended: Minimum 2.0 in INTR 132 and INTR 175 and INTR 190 and INTR 240

This course examines the relationship of human needs to interior environmental design with emphasis on alternative housing design. (Sp)

INTR 248 Non-Residentl Interiors Studio

Prerequisite: None

Recommended; Minimum 2.0 in INTR 175 and INTR 240 and ARCH 122 and (INTR 261 Concurrently)

This course is a study of contract and commercial design. It includes designing all types of nonresidential interiors; programming, problem solving, furniture, fixtures and equipment, and lighting, building codes, and barrier-free space planning with the use of systems furniture and computer-aided planning programs. (F)

INTR 252 Codes and Specifications 2

Prerequisite: None

Recommended: INTR 248 2.0 minimum

This course is the study of practices and procedures of working drawings, interior materials, cost estimating, installation methods for furniture, cabinets and shop drawings, floor coverings, wall coverings, and window treatments. Emphasis on furniture, fixture and equipment selection and specifications. (Su)

INTR 254 Certification Review

Prerequisite: None

This course is specifically intended to prepare interior design students with appropriate information plus practicum exercises which will enable them to prepare for the National Council for Interior Design Qualification Examination. (F. Sp. Su)

INTR 256 Interior Professional Practice

Prerequisite: None

Recommended: Second Year Interior Design Students

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. For the final project, students prepare a project control book. (F)

INTR 260 3-D CADD for Interiors з

Prerequisite: None

Recommended: INTR 132 and INTR 222 or Equivalent This is the third course in a series in the study of computer assisted drafting and design applications for interior design. Students will learn how to create 3D models, wire frames, and surfaces. (F)

INTR 261 Interiors Project Laboratory	14
Prerequisite: Department Aproval	
Restriction: Interior Design Majors	
Recommended: INTR 222	
This course is a directed study of special projects not incorporat course offerings. (F, Sp, Su)	
	te da la composición de la composición de la composición de la composición de la composición de la composición
INTR 263 Interior Design Internship	1
Prerequisite: Department Approval	
Restriction: Interior Design Majors	
Recommended: INTR 256 2.0 minimum and GPA 2.5 and 30 credit	ts
completed in INTR	
This course is a field study. Students will gain pre-career experience	by working in
a studio environment under the supervision of a protessional archite	ect or interior

designer. Regular scheduled progress reports will be given and discussed with supervising faculty member. (F, Sp, Su)

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INTR 270-ISCI 121

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INTR 270 Interior Design Portfolio

Prerequisite: None

Restriction: Interior Design Majors

Recommended: INTR 132 and INTR 256 and INTR 263

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)

IRXT RADIOLOGIC TECHNOLOGY

IRXT 100 Introduction to Imaging

Prerequisite: Admission to Radiologic Technology Program

This course surveys the role of the radiographer in the health care industry. Explores the historical development of X-ray, medical, and legal ethics, radiation protection, patient-staff relationships, and other imaging technologies. A clinical component allows the new radiography student to correlate this material in the practical setting. (F)

IBXT 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)

IRXT 113 Additional RAD Procedures

Prerequisite: IRXT 112 2.5 minimum

Special radiologic procedures are studied and some related imaging modalities surveyed. Procedures include neurologic, cardiovascular, arthrographic, mammo-graphic, digital imaging, and tomographic studies. (Su)

IRXT 114 Cross-Sectional Anatomy

Prerequisite: IRXT 113 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. (Sp)

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. Includes a study of manual processing and the theory of image formation. Dark room procedures, quality control, both radiographic and photographic, will also be explored. (Su)

IRXT 131 Radiologic Physics

attenuation are studied. (F)

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

IRXT 132 Radiobiology and Protection

Prerequisite: IRXT 131 2.5 minimum

This course focuses on the rationate for good radiation hygiene and methods to protect the patient and technologist. Current theories regarding the physiological effects of radiation are explored. (Sp)

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IRXT 200 Intro/Radiologic Pathology

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 three 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 three clinical clock hours. The ratio for lecture is consistent with the one-to-one ratio. (Su)

IRXT 210 Radiology Career Management

Prerequisite: None

Designed to acquaint the student with the organization, function, supervision, and financial arrangements relative to departments of radiology, basic X-ray equipment for performing preventive maintenance, and detecting simple functioning difficulties. (F)

IRXT 214 Comprehensive Experience I

Prerequisite: IRXT 204 2.5 minimum (previously IRXT 233) 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

Prereguisite: 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)

IRXT 219 Imaging Update

Prerequisite: IRXT 132 2.5 minimum

This course will provide the advanced imaging student with an update of positioning, exposure, and physics. In addition, the use of a comprehensive test will assess the student's level of knowledge in the imaging technology. (Su)

IRXT 236 Comprehensive Experience III-S 4

Prerequisite: IRXT 215 2.5 minimum

Third in a three-semester sequence of clinical applications 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. (Su)

ISCI 110 Science Discovery: A Process

ISCI - INTEGRATED SCIENCE

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Prerequisite: Reading Level 3 and Writing Level 2 and Math Level 3 Emphasizes reducing anxiety and improving reasoning skills necessary for participation in science courses. Methods to identify and reduce anxiety associated with science topics are presented. Science reasoning skills will be inventoried, including observation, experimental techniques, critical thinking, and communication. (F, Sp)

ISCI 121 Integrated Sci for Education I

Prerequisite: Reading Level 5 and Writing Level 4 and Math Level 4 The first of two general science courses focusing on the fundamental behavior of

The first of two general science courses 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)

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Integrate Sci for Education II ISCI 122

Prerequisite: ISCI 121 2.0 minimum and Reading Level 5

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)

JAPN - JAPANESE

JAPN 115 Conversational Japanese I

Prerequisite: 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 life in Japan will be introduced. (F, Sp, Su)

JAPN 116 Conversational Japanese

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 elementary 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)

JRNL-JOURNALISM

JRNL 151 Newswriting and Reporting

Prereguisite: None

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 254 Editorial Writing

Prerequisite: JRNL 151 2.0 minimum or WRIT 121 2.0 minimum or

WBIT 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. (F)

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, Su)

LABR 201 Labor Negotiation/Contract Adm

Prerequisite: None

Recommended: LABR 200 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

LAND 100 Intro to Landscape Drafting

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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

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 103 Landscape Dsgn Workshop Series

Prerequisite: None

The Landscape Design Workshop Series will feature topics related to the green industries. The workshop format allows for hands-on participation on the particular topics area. Participants can explore topics from wreath making to terrarium construction. (F, Sp)

LAND 120 Basics/Landscape Contracting

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Prereguisite: 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, Sp)

LAND 130 Interior Landscaping

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Prerequisite: None

This course includes the identification, culture, placement, and use of follage and flowering plants in the office, mall, restaurant or home. Basic principles of landscaping 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)

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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 nonurban 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, Sp)

LAND 181 Landscape Restoration/Manage З

Prereguisite: 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)

Prereguisite: None

This course will explore the basic elements of wetland idontification. 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. (F, 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. (F, 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

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	
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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, foliage, 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 Landscape Arch

Prereguisite: None

This course will introduce the student to various asp 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, Su)

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 end informal applications of mechanical and freehand drafting communication are emphasized to include reproduction printing methods, (F, Sp, Su)

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)

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LAND 185 Arboriculture (Ur	ban/Forestry)	3	1
Prereguisite: None			1
The enve of trace and shrubs	in the urban equirement is t	thoroughly discussed	

he care of trees and shrubs in the urban environment is thoroughly discussed. The course emphasizes tree physiology as it relates to plant selection, installation, decay prevention, pruning, and fertilizing. Field demonstrations of arboncultural practices such as pruning, bracing, and fertilizing will be offered. (F, Sp)

3 LAND 195 Irrigation Design and Manage

Prereguisite: None

This course is for the professional or beginner interested in irrigation system design, installation, maintenance, and troubleshooting. Lectures will cover a range of systems including residential, commercial, drip, and golf course. (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, Sp, Su)

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, Sp)

LAND 225	Landscape Cost Estimation	3
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rerequisite: None

This course is an introduction to the study of landscape contracting and the cost estimating process. The class covers the project management process and 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, Su)

LAND 233 Grounds Management

Prereguisite: 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

Prereguisite: 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. (F, Sp)

LAND 250 Landscape Construction Methods

Prereguisite: 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)

LAND 252 Landscape Construction Details

Prerequisite: LAND 250 2.0 minimum

Focuses on graphic techniques for drawing construction details and coordination of details with site plan layout. Studies detailing utilities, irrigation systems, circulation systems, recreational facilities, and various light construction features. Design-build procedures are stressed, including material tabulation and cost estimating. (Sp)

LAND 276 Landscape Documents and Spec

Prerequisite: LAND 164 2.0 minimum This course explores the relationship and principles between specifications and working drawings. The cost of projects as well as bid preparations will be highlighted. The student will prepare bids, write specifications, and participate in a class bid opening. (F)

LAND 281 CAD Basics in Landscape Design

Prerequisite: None

This basic introduction to computer-based landscape design software packages will include basic computer concepts related to landscape drafting and design principles. Hands-on computer exercises will feature landscape modules of site design and selection. (F, Sp, Su)

LAND 282 Computer Draft/Dsgn Land Arch

Prerequisite: None

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 design, maintenance, construction, plant selection, land survey, and cost estimating: AutoCAD will be surveyed and utilized for the computer-aided drafting and design portion of this course. (F, Sp, Su)

LAND 283 Beginning LANDCADD

Prerequisite: LAND 282 2.0 minimum

This course assumes basic AutoCAD experience and covers the Site Design LANDCADD package. Site planning and the related modules in site analysis, coordinate 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, Su)

LAND 284 Advanced LANDCADD

Prezequisite: LAND 283 2.0 minimum

This course continues the use of LANDCADD modules and project development. The student will complete detailed drawings utilizing the site planning package. 3-D customization will also be covered including solid modeling, macro commands, line type creation, and customized symbol library. This is an advanced LAND-CADD class. (Sp)

LAND 285 Computer Landscape Animation

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

Prerequisite: None

Recommended: LAND 282

This computer course will cover how to use photo-imagery end 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. (F, Sp)

LAND 288 Beginning Site Designer CAD

Prerequisite: None

This course provides an introduction to the Site Designer computer design software. The class presents the site planning module as well as topography, plant selection, landscape construction, and rendering. All modules will be presented and several design projects will be completed. No previous computer experience necessary. (F. Sp. Su)

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 grephic animations and presentations. (F, Sp)

LAND 295 Landscape Project Lab

Prerequisite: Department Approval

This project lab is designed for students who wish to pursue a specialty area in landscape architecture beyond that which is offered in our curriculum. Inquiry through research and design of landscapes is required. (F, Sp, Su)

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LEGL 115-LEGL 227

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LEGL - LEGAL ASSISTANT/LAW

LEGL 115 Legal Assistant Career/Ethics

Prerequisite: Reading Level 5 and Writing Level 6 and Department Approval 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 end resources for finding federal end 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 1.0 minimum or Writing Level 9) 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	
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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: LEGI 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 Bush Law I, Basic Principles

Prerequisite: None

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, landlord-tenant law, and bailments. Taught in traditional classroom style, via self-paced Computar 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

Prerequisite: 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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LEGL 218 Litigation Specialties

Prerequisite: LEGL 211 1.0 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, Su)

LEGL 219 Adv Busn Law for Acct Majors 4

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-oreditor 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 1.0 minimum

This class will introduce global issues and organizations from the legal perspective 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 1.0 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

Prerequisite: LEGL 115 2.0 minimum and LEGL 215 1.0 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 1.0 minimum In-depth study of marriage, divorce, separation, annuiment, 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 1.0 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 1.0 minimum and LEGL 121 1.0 minimum Reviews principles of legal research, analysis, and writing. Introduces student to computer-assisted legal research (LEXIS and 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 offcampus libraries. (F, Sp)

LEGL 226 Legal Interview/Investigation

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Prerequisite: LEGL 115 2.0 minimum and LEGL 215 1.0 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 1.0 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)

LEGL 228-MASG 274

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LEGL 228 Computer Tech for Legal Assist

Prerequisite: LEGL 120 1.0 minimum

Recommended: Windows 95 and Keyboarding Experience This course focuses on computer technology as it is applied within the law firm, 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, and checking conflicts of interest among clients. (F, Sp, Su)

LEGL 280 Legal Assistant Internship

Prerequisite: Department Approval

Student will experience the paralegal career by working as a legal assistant in a supervised capecity. 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. (F, Sp)

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 designed 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 I

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

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)

MACH 120 Effect Use Machinery Handbook

Prerequisite: None

Recommended: MATH 114 or TECH 101

Machinery's Handbook has been recognized as the "bible" for all phases of the metal working industry. This course will familiarize each student with the effective utilization of information contained in Machinery's Handbook. (F, Sp, Su)

MACH 130 Die Construction

Prerequisite: None

Recommended: MACH 110 and MACH 111 This course will provide each student with a basic understanding of the essential principles of cutting and forming operations; die components such as punches, punch plates, die blocks and strippers; and an in-depth knowledge of how to repair and maintain the equipment common to the die industry. (Sp)

MACH 135 Metallurgy and Heat Treat

Prerequisite: None

This course is designed to give students a working knowledge of the properties, uses and heat treat processes of commonly used metals and alloys. The basic principles of metallurgy presented apply to the design, selection, processing and testing of metal products. (F, Sp, Su)

MACH 140 Tooling Theory and Practices

Prereguisite: None

Recommended: MACH 110 and MACH 111 This course examines tooling used in mechanical material removal. Tooling mete-rials from high-speed steel to diamond will be discussed and demonstrated. Tooling geometry, resharpening methods, speeds and feeds, failure mechanisms and problem diagnosis will be addressed. Students will analyze tooling performance and write up technical reports. (F, Sp)

MACH 194 Machine Tool Tech Project Lab

Prerequisite: Department Approval

Recommended: MACH 110 2.5 minimum or MACH 111 2.5 minimum 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 compatible with their individual fields of work. (Approval may be given to take this course twice for a

maximum of eight credits.) (F, Sp, Su) 4

MACH 210 Prin Electric Discharge Mach

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

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 270 Massage Therapy-Beginning

Recommended: ANAT 145 2.5 minimum This course introduces the student to Swedish massage. The student will learn the history, theory, terminology, physiology, and techniques of Swedish massage. (F, Sp, Su)

MASG 271 Massage Therapy-Intermediate

Prerequisite: MASG 270 2.5 minimum

This course builds upon the information and techniques learned in MASG 270. Following a review of MASG 270, the student is introduced to specialized massage techniques. The student will learn contraindicated techniques and exploration of Swedish acupressure. (F, Sp, Su)

MASG 273 Human Structural Dynamics

Prerequisite: ANAT 145 2.5 minimum

This course will provide the massage therapy student with an in-depth view of the areas of anatomy which are specific to massage, primarily within the musculoskeletal and nervous systems. (F, Sp)

MASG 274 Massage Laboratory

Prerequisite: MASG 271 2.5 minimum or Concurrently

This course is designed for students who intend to complete the Massage Therapy Certificate of Completion curriculum. It will provide the student with supervised practice of massage techniques in basic massage, polarity therapy, clinical, and sports massage. (F, Sp)

MASG - MASSAGE THERAPY

Prerequisite: MATH 114 2.0 minimum Recommended: MATH 115

Prerequisite: None

Prerequisite: None Recommended: MACH 105 and MACH 111 and CNCP 110

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MASG 275-MATH 122

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Prerequisite: None

MASG 275 Touch for Health

This course introduces the student to the combination of ancient Oriental disciplines with the modern practice of applied kinesiology. The student will learn basic muscle techniques to improve postural balance, which can affect the mental, emotional, and physical state. (F, Sp)

MASG 277 Polarity Therapy I

Preregulaite: None

This course introduces the student to polarity therapy as a form of massage that balances the life energy of the physical body. Hands-on application of balancing techniques, basic theory, and philosophy are taught to enhance relaxation and awareness of energy flow in the body. (F, Sp)

MASG 278 Polarity Therapy II

Prereguisite: MASG 277 2.5 minimum

This course will deepen the student's understanding of polarity therapy. Advanced hands-on techniques and sequences will be taught to balance the various energy patterns of the physical body. Lectures will be on the philosophical, energetic, and spiritual principles that sustain and vitalize the physical form. (F, Sp)

MASG 279 Business Applications/Masg

Prereguisite: MASG 270 2.5 minimum

This course introduces students to aspects of business and marketing in the field of massage and body work. Emphasis is placed on development of a professional and personal business sense using planning and persistence, client-practitioner relationships, ethics, research, marketing strategy, goal-setting, motivation, and professional legalities. (F, Sp)

MASG 280 Clin Approach Therap Massage

Prerequisite: MASG 271 2.5 minimum and MASG 273 2.5 minimum.

The student will learn various therapeutic massage techniques and related therapies that will help relieve tension and pain in the musculature. Course includes contraindications, client-therapist relationship, health evaluations, draping procedures, and anatomy/physiology review pertinent to therapeutic massage. (F, Sp)

MASG 281 Sports Massage Techniques

Prerequisite: MASG 280 2.5 minimum or Concurrently

The student will learn various massage techniques and related therapies that are specifically beneficial to the athlete. Applications for pre-, inter-, and post-athletic events and athletic training massage will be emphasized, (F, Sp)

MATH N	IATHEMATICS	
MATH 001	Math Minus Anxiety Workshop	.5

Prerequisite: None

A workshop for adults who feel insecure about doing mathematics and need help and encouragement to succeed in math. The workshop uses technology and diverse real world applications to improve problem solving techniques and math study skills and reduce math anxiety. Students at any math level may enroll. (F, Sp)

MATH 050 Math-Principles and Practices

Prerequisite: (MATH 030 2.0 minimum or MATH 033 2.0 minimum or 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, 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 103 Introductory Algebra, Part A

Prerequisite: (MATH 050 2.0 minimum or Math Level 4) and Reading

Level 5 and Writing Level 2

Graphing calculator required. This course is the first half of MATH 107. Topics include properties of real numbers and exponents, variable expressions, solving linear equations, polynomial operations, ratio and proportion, graphing, solving systems of equations, and inequalities. Graphing calculator, diverse, real-life applications, and geometry are integrated throughout the course. (F, Sp, Su)

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MATH 104 Introductory Algebra, Part B

Prerequisite: (MATH 103 2.0 minimum or MATH 103 Proficiency Test) and Reading Level 5 and Writing Level 2

Graphing calculator required. This is the second half of MATH 107. Topics include properties of exponents, polynomial operations, solving quadratic equations, tactoring polynomials, rational expressions and equations, and radicals. Graphing calculator, diverse, real-life applications, and geometry 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 and quadratic equations, polynomial operations including factoring, graphing, solving systems of equations, rational expressions and equations, ratio and proportion, radicals, 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 Reading Level 5 and Writing Level 4 Graphing calculator required. This is an extension of beginning algebra, using the graphing calculator, with emphasis on graphing and diverse, real-life applications, including linear, quadratic, rational, and other functions. Also emphasized are polynomials, rational expressions, radicals, rational exponents, equations, inequalities. systems of equations, with an introduction to complex numbers, interpreting data and matrices. (F, Sp, Su)

MATH 114 Technical Math I

Prerequisite: (MATH 050 2.0 minimum 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, angles, triangles, Pythagorean Theorem, and right triangle trigonometry. Emphasis is placed on problem-solving techniques for technical applications. (F, Sp)

MATH 115 Technical Math II

Prerequisite: MATH 114 2.0 minimum and Reading Level 5 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)

MATH 117 Math for Business

Prerequisite: (MATH 104 2.0 minimum or MATH 107 2.0 minimum 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, Su)

MATH 121 College Algebra I

Prerequisite: (MATH 112 2.0 minimum 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 STAT 170, MATH 122, 128, 130, 141 and 201.) 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

Prerequisite: (MATH 121 2.0 minimum 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)

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MATH 126 College Algebra and Trig

Prerequisite: (MATH 112 3.5 minimum or Math Level 7) and Reading Level 5 and Writing Level 4

Intensive course covering the same material as MATH 121-122. Topics include atgebraic 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)

MATH 128 Mathematics: A Practical Survey

Prerequisite: (Math 121 2.0 minimum or Math Level 8) and Reading Level 5 and Writing Level 4

This course is a survey of mathematical topics for students majoring in fields outside the technical sciences. The student is introduced to practical topics and their historical significance. Topics include data gathering, analysis and interpretation; finance; growth and decay models; optimization models; and geometry as art. (F, Sp, Su)

MATH 130 Finite Mathematics

Prerequisite: (MATH 121 2.0 minimum or Math Level 8) and Reading Level 5 and Writing Level 4

This is an alternate course to MATH 122 for students whose programs do not require trigonometry. Topics studied include mathematics of finance, matrices, linear programming, permutations, combinations, probability, random variables, game theory, and Markov chains. In addition, students will solve applied problems by completing required computer assignments. (Sp)

MATH 141 Calculus with Applications

Prerequisite: (MATH 121 2.0 minimum or MATH 126 2.0 minimum or Math Level 8) and Reading Level 5 and Writing Level 4

This course is for students in business, economics, social science, life sciences, and other areas not requiring a rigorous study of calculus. Topics studied include limits, derivatives, and integrals with an emphasis on applications to the abovementioned disciplines. (F, Sp, Su)

MATH 151 Calculus I

Prerequisite: (MATH 122 2.0 minimum or MATH 126 2.0 minimum 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, Sp, Su)

MATH 152 Calculus II

Prerequisite: MATH 151 2.0 minimum 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'Hôpital'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 Liberal Arts 1

Prerequisite: (MATH 121 2.0 minimum or Math Level 8) and Reading Level 5 and Writing Level 6

Topics help students understand what mathematics is. They include analysis/interpretation of data, real numbers, bases other than 10, polygons, golden figures, tiling, and applications of functions. A strong historical theme is present throughout, Students are involved in concept development as well as finding answers. Intended primarily for prospective elementary teachers. (F)

MATH 202 Math for Liberal Arts II

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Prerequisite: MATH 201 2.0 minimum and Reading Level 5 and Writing Level 6 Topics help students understand what mathematics is. They include number theory, logic, calculus, mathematical games, graph theory, trigonometry, and algorithmic reasoning. A strong historical theme is present throughout. Students are involved in concept development as well as in finding answers. Intended primarily for prospective elementary teachers. (Sp)

MATH 253 Calculus III

Prerequisite: MATH 152 2.0 minimum 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

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Prerequisite: MATH 253 2.0 minimum 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 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. (F, Sp, Su)

MATH 281 Honors Math Seminar

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. May be taken up to two semesters for credit. (Sp)

MATH 295 Independ Study in Mathematics

Prerequisite: Department Approval

An independent study in some area of mathematics not covered by an existing course. Student works independently under the supervision of a faculty member. Student devotes three or more hours per week to this study in addition to their work with the assigned instructor. (F, Sp, Su)

MEDA - MEDICAL ASSISTANT

MEDA 100 MA Administrative/Communicat

Prerequisite: Admission to Medical Assistant Program

Co-requisite Courses: MEDA 131 and MEDA 141 Introduction to role of medical assistant administrative/ clerical functions: professionalism, written communication, telephone communication, scheduling, referrals, filing, medical records management, processing incoming and outgoing mail, account posting, and basic banking functions. Also provides students with an understanding of interpersonal skills. (F)

MEDA 131 Clinical Skills I

Prerequisite: Admission to Medical Assistant Program

Co-requisite Courses: MEDA 100 and MEDA 141

Designed to provide knowledge in clinical skills relating to the following topics: universal precautions; vital signs, health history and physical examination, infection control, instrument sanitation, disinfection and sterilization, problem-oriented medical records, and physical therapy. (F)

MEDA 132 Clinical Skills II

Prerequisite: AHCC 112 2.5 minimum and CHSE 123 2.5 minimum (previously CHSE 111) and CHSE 122 2.5 minimum and MEDA 100 2.5 minimum and MEDA 131 2.5 minimum

Co-requisite Course: MEDA 142

Designed to cover both in theory and campus lab the more advanced technical skills necessary to perform in the clinical setting. Skills and procedures covered will include surgical asepsis, minor surgery assisting, electrocardiography, medication administration, radiography, and nutrition. (Sp)

MEDA 141 Basic Medical Laboratory Proc

Prerequisite: Admission to Medical Assistant Program

Co-requisite Courses: MEDA 100 and MEDA 131

This course introduces the student to the clinical laboratory. Laboratory organization and safety will be discussed. Quality assurance issues will be emphasized. Basic principles and procedures for laboratory tests will be presented including collection and preparation of specimens, venipuncture, capillary puncture, urinalysis, and hematological testing. (F)

MEDA 142 Adv Medical Laboratory Proc

Prerequisite: AHCC 112 2.5 minimum and CHSE 123 2.5 minimum

- (previously CHSE 111) and CHSE 122 2.5 minimum and
 - MEDA 100 2.5 minimum and MEDA 131 2.5 minimum and
- MEDA 141 2.5 minimum Co-requisite Course: MEDA 132

This course enables the student to understand and perform some of the more complex laboratory tests performed in medical offices. Basic pathophysiology will be discussed. Tests from the following areas will be covered: clinical chemistry, immunology, microbiology, and hematology. Collection and preparation of specimens, etc. (Sp)

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MEDA 181 Administrative Practicum

Prerequisite: AHCC 110 2.5 minimum and MEDA 132 2.5 minimum and MEDA 142 2.5 minimum and OADM 207 2.5 minimum Co-requisite Course: MEDA 182

Administrative practicum is designed to provide application of administrative theory. This course is programmed with specific performance objectives and activities. (Su)

MEDA 182 Clinical Practicum

Prerequisite: AHCC 110 2.5 minimum and MEDA 132 2.5 minimum and

MEDA 142 2.5 minimum and OADM 207 2.5 minimum

Co-requisite Course: MEDA 181

Clinical practicum is designed to provide application of theory and practice relevant to the clinical skills required of a medical assistant. The course is designed with specific performance objectives and activities. (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)

MFGM - 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, fitters 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. (F, 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)

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MGMT MANAGEMENT

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 is designed to develop thinking skills and break down barriers to creativity. An experiential approach is used to apply both critical and creative thinking

skills to business situations. (F, Sp)

MGMT 223 Supervision

Prerequisite: None

This course presents supervisory principles and practices for first-line supervisors. Managerial functions of planning, organizing, staffing, directing, and controlling are discussed, along with policies, decision-making, and the responsibilities of supervisors for overall work performance and employee development and evaluation. (F, Sp)

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 is designed to reflect the dynamics of our changing world and to provide students with an introduction to some of the issues, topics, and processes that managers fece. Covers such topics as management functions and processes, quality, ethics, global issues, and the challenges and opportunities of diversity. In this course, students will manage themselves and their learning. (F, Sp, Su)

MGMT 227 Training/Development for Busn

Prerequisite: 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

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)

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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 e 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 academic area of interest, linking theory with practice. Students meet with coordinator and work independently towards completion of project repert. (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, empowerment, and "learning organizations." (F. Sp)

MGMT 239 Time and Stress Management

Prerequisite: 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 Ha	appen
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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 componants, 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

Prereguisite: 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 Fundamental Mod Personnel Mgmt

Prerequisite: 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 increase productivity and profits. (F, Sp, Su)

MGMT 247 Be a Successful Project Mgr

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

Prereguisite: 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. Participants will focus on key aspects of team building, ranging from recruitment to empowering team members with authority and responsibility. (F, Sp, Su)

MGMT 249 Dealing with Difficult People

Prerequisite: None

Discover how seasoned managers cope with difficult personalities in the workplace. This course covers effective communication and motivational and conflict resolution approaches used by experienced managers. Students will also learn how to avoid difficult behaviors by instituting positive work strategies, structures, and values before problems develop. (F, Sp, Su)

MGMT 250 Fundament Fin/Acct/Non-Fin Mgr

Prerequisite: None

Provides the manager with an understanding of finance. This course will help students learn to read and interpret financial statements, annual reports, and balance sheets. This course will help students use financial and accounting data more effectively. (F, Sp, Su)

MGMT 251 Communication Skills for Mgrs

Prerequisite: None

All managers have a basic tool they can use to effectively get messages across to staff and colleagues: communication. This course presents practical applications for communicating such as writing effective letters, memos and reports, running meetings, conducting interviews, and listening. (F, Sp, Su)

MGMT 252 Deliver a Winning Presentation

Prerequisite: None

This course will provide the student with a basic awareness of the steps necessary for making an effective oral presentation. It is designed for anyone who wants to reduce the fear of public speaking by learning how to deliver presentations. (F. Sp. Su)

MGMT 253 How to Write Winning Reports

Prerequisite: None

This course helps students develop a more concise, straight forward writing style. It will help the student express ideas more clearly in memos, letters, and reports. (F. Sp. Su)

MGMT 254 How to Write a Business Plan

Prerequisite: None

This course is designed for managers who want to give real meaning and power to their company's business plan. Participants will learn how to develop realistic action programs and responsibility plans for allocating scarce resources, installing workable monitoring and control systems, and creating supportive policies and procedures. (F, Sp, Su)

MGMT 256 Strategic Plan/Entrepren Busn

Prerequisite: None

Owners and managers of new and growing businesses, or of companies that operate within an entrepreneurial environment, will learn how to prepare a strategic plan. Students will learn about organizational charts, goal-setting matrices, diagnostic summary sheets, and checklists-all designed to help them create a plan that works. (F, Sp, Su)

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MGMT 257-MGMT 280

MGMT 257 Using Math as a Business Tool

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Prerequisite: None

This course is designed to increase familiarity with formulas and calculations most frequently used in business. Participants will learn to apply various ratios to test a company's strength, use statistical tools to read results more accurately, forecast more reliably, and assess the viability of a project through break-even analysis. (F, Sp, Su)

MGMT 258 Strategic Résumés

Prerequisite: None

The résumé 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. (F, Sp, Su)

MGMT 261 Psychology of Selling/Winning

Prerequisite: None

This course helps students realize their full potential for total success. It goes beyond positive thinking or other motivational programs to offer the key that unlocks inner power. It teaches participants what to do to become top professional salespeople and what they should do in order to sell successfully. (F, Sp, Su)

MGMT 262 Keep Satisfied Customers

Prerequisite: None

This course is designed to help simplify the task of keeping customers satisfied. The ultimate goal of this course is to help improve students' abilities to communicate effectively with customers. (F, Sp, Su)

MGMT 263 Successful Marketing/Serv Org

Prerequisite: None

Marketing concepts long associated with manufactured goods are now applied to the service sector. Learn how to create services for markets rather than markets for services. This course is designed for service company managers and others who need to sharpen their competitive edge. (F, Sp, Su)

MGMT 264 How to Write a Marketing Plan

Prerequisite: None

This course is designed for future or current small business owners, marketing managers, product managers, and others responsible for creating the marketing plan. Students will learn how to fuse vital elements to create a marketing plan that is right for their product line, service department, company, or organization. (F, Sp. Su)

MGMT 265 WWW Skills: Busn/Personal Dev

Prerequisite: None

This course is designed for individuals who wish to benefit from online knowledge—the information superhighway. Included is a highly visual introduction to the World Wide Web, with Windows overview and basic WWW skills. Students will be introduced to web page creation. The course is designed for interactive WWW learning or reading. (F, Sp, Su)

MGMT 266 Enter International Markets

Prerequisite: None

International trade and marketing is growing rapidly in business. This course will help the student to capitalize on "going global" by providing information on how to research resources, learn terminology, and develop foreign market entry strategy. It is designed for the individual entrepreneur or a manager wishing to improve the bottom line. (F, Sp, Su)

MGMT 268 Organizing Your Workspace

Prerequisite: None

Organization is a skill that is easy to learn. Personal productivity is reduced by as much as 20 percent or more from ineffective organization of the workspace environment. This course is for anyone who experiences "clutter" in their daily activities. The student will get organized and stay organized as technology impacts the way we work. (F, Sp, Su)

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MGMT 270 Time Management

Prerequisite: None

Time management techniques can be applied to both personal and professional situations. Learners will discover basic principles of time management, and will also become aware of positive and negative stress, relaxation and balance techniques, and ways to reduce 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

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)

MGMT 273 Assess Prsnal Interactn Skills

Prerequisite: None

This course is designed to increase awareness of personal styles and preferences for interacting with others. It is also designed to heighten awareness of styles and preferences of people with whom the student interacts daily. (F, Sp, Su) -

MGMT 274 Personal Financial Planning

Prerequisite: None

This course will show students how to start building financial security. It emphasizes spending strategies and capital-building techniques rather than housekeeping methods. The course is designed for anyone. (F, Sp, Su)

MGMT 275 How to Build Memory Skills

Prerequisite: None

This course is designed to help the student apply the skills that increase ability to obtain and utilize information. The result of using improved listening and memory skills will help realize leadership potential. (F, Sp, Su)

MGMT 276 How to Improve Writing Skills

Prerequisite: None

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 277 Speed Learning

Prerequisite: None

This course offers an entirely different way to read that reduces reading time while increasing comprehension. It teaches how to organize thinking systematically so the reader can learn quickly and efficiently in all reading situations. (F, Sp, Su)

MGMT 278 Creative Fund-Raising

Prereguisite: None

As traditional funding sources become scarce, creative fund-raising is critical for an organization's survival. This course will guide the student through the process of defining fund-raising in an organization, identifying grant resources, and developing donors through special events. The student will design a strategic fund-raising plan for the solicitation and creative utilization of resources. (F, Sp, Su)

MGMT 279 Learn APA Write Style for Bus

Prerequisite: None

This course offers a self-paced, hands-on opportunity to learn the rules and style of the Publication Manual of the American Psychological Association. Practice is emphasized, not memorization, allowing the student to use APA as a skill or tool for improving business report writing skills. (F, Sp, Su)

MGMT 280 Management Internship

Prerequisite: Department Approval Recommended: Have Completed a Minimum of 30 Credits

Internships provide students with actual job training and experience by working with business owners and/or managers in organizing and/or operating a business. Minimum of 160 hours of work required. (F, Sp, Su)

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MGMT 300 Managerial Leadership

Prerequisite: None

Recommended: Have Taken Previous MGMT Courses, and/or are Enrolled in the

Northwood 3+1 Program, or Have Management Work Experience Provides an overview of the changing roles of leadership within an organization. A review of historical perspectives in managerial leadership lays a foundation for exploration of the emerging roles and functions of leadership in today's changing environments. Theories and skills are applied to a variety of organizational settings. (F)

MGMT 304 Organizational Development

Prerequisite: None

Recommended: Have Taken Previous MGMT Courses, and/or are Enrolled in the Northwood 3+1 Program, or Have Management Work Experience Based on the assumption that all managers must recognize, plan for, and manage organizational change, this course examines the process of improving organization effectiveness by means of a systematic change program. Students practice identifying problems, selecting appropriate interventions, building action plans, and developing facilitator skills. (F, Sp)

MGMT 329 Adv Mgmt Communication Skills

Prerequisite: None

Recommended: Have Taken Previous MGMT Courses, and/or are Enrolled in the Northwood 3+1 Program, or Have Management Work Experience

This is an advanced course in interpersonal communication skills for business. It includes components of listening, interpersonal communication, oral presentations, interviewing techniques, meeting management, business report writing, and persuasive speaking. This class is both informational and experiential. (F, Sp)

MGMT 332 Managerial Ethics

Prerequisite: None

Recommended: Have Taken Previous MGMT Courses, and/or are Enrolled in the

Northwood 3+1 Program, or Have Management Work Experience Designed to sensitize participants to the impact of ethics on decision-making, both personal and organizational. Participants will examine the basis for the behavior of managers, their own behavior, various means of controlling organizational behavior, and the bases for ethical standards. (F, Sp)

MGMT 335 Managerial Statistics

Prerequisite: None

Recommended: Have Taken Previous MGMT Courses, and/or are Enrolled in the

Northwood 3+1 Program, or Have Management Work Experience Application of statistical tools and techniques to improve decision-making processes and reduce managerial decision difficulty from less-than-perfect data. Includes sampling, description of sample data, methods of averaging, standard deviation, probability theory, estimation, and hypothesis testing. (F, Sp)

MGMT 337 Human Resource Mgmt Skills

Prereguisite: None

Recommended: Have Taken Previous MGMT Courses, and/or are Enrolled in the

Northwood 3+1 Program, or Have Management Work Experience Skill areas involved in the management of human resources are developed. Techniques for setting objectives with employees, conducting performance appraisals, and working with employee problems are practiced. Students plan techniques for managing teams and for leading and motivating employees. (F, Sp)

MGMT 338 Current Topics in Management

Prerequisite: None

Recommended: Have Taken Previous MGMT Courses, and/or are Enrolled in the Northwood 3+1 Program, or Have Management Work Experience

Study of specific topics and issues in today's society that affect managerial decisions. Students explore internal and external constraints on actions. External factors considered are legal, social, educational, and political. Special emphasis is given to international events impacting domestic management practices. Internal factors considered are shareholders, employees, and customers. (F)

MGMT 339 Mgmt Styles/Corp Strategies

Prerequisite: None

Numerous current materials relating to management styles and corporation strategies in Japan will acquaint the student with management as practiced in Japan. Japanese management practices are presented as an alternative managerial style for the United States to explore. (This course is offered only as part of the Japan Adventure Program.) (Sp, Su)

MGMT 346 Managerial Finance Prerequisite: None

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 formutation and implementation for the whole organization. The process involves pursuing organizational mission while managing the relationship of the organization to its environment. (F)

MICR MICROBIOLOGY

MICR 203 Microbiology

Prerequisite: Reading Level 5 and Writing Level 6 and Math Level 4 Recommended: Biology 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; and the epidemiology, treatment, and prevention of selected infectious human diseases. (F, Sp, Su)

MICR 204 Microbiology Laboratory

Prereguisite: MICR 203 2.0 minimum or Concurrently and Reading Level 5 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)

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 an overview and practical exercise in the use of military topographic maps. This course will cover methods of reading and interpreting map symbols; determining elevation and relief; measuring distance; and using the techniques of intersection, resection, modified resection, and polar coordinates to determine location. Lab includes land navigation exercises using a lensatic compass in a field environment. (F, Sp)

MILS 201 Leadership: The Militry Leader

Prerequisite: 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 Navigatn/Tactics

Prereduisite: None

This course provides instruction in emergency first aid techniques including casualty evaluation, lifesaving measures, CPA, and environmental injury prevention. It reviews the Army's Physical Fitness Program, and introduces individual and group fitness programs. Rappelling, individual/squad tactics, and field training exercises are provided. Lab includes leadership training. (F, Sp)

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MKTG 204 Marketing Research Prereguisite: 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)

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Prerequisite: None

Recommended: MKTG 200 and Basic Understanding of Computers and Their 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

Prerequisite: None

Covers the basic perspectives involved in consumer motivation and decisionmaking. 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 231 Independent Study in Marketing 1---3

Prerequisite: Department Approval

Advanced marketing students design, implement, and draw conclusions relevant to e 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

Practical work experience in an approved business setting. Minimum of 160 hours work required. (F, Sp, Su)

MTEC MEDIA TECHNOLOGY

MTEC 110 Intro Broadcast/Elec Media

Prerequisite: Reading Level 5 and Writing Level 6 A survey of the history, technology, regulation, economics, programming, and societal effects of the electronic media. (F, Sp, Su)

MTEC 120 Audio Production I

Prerequisite: Reading Level 5 and Writing Level 6

Recommended: Basic Computer Skills

A beginning course which covers the basics of audio theory and production tech-
niques. Included are topics in tape editing, audio mixing, and basic nonlinear dig-
ital editing. This class provides the foundational theory for the other classes in the
audio series. (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 which covers the basic principles of multitrack recording, both studio and remote. Emphasis is placed on microphone selection and placement, use of mixing consoles for the recording session, and multitrack recorders. (F, Sp)

MTEC 122 Sound Reinforcement

A beginning course in sound reinforcement which covers the theory and practice of sound systems and components used for concert sound and other live reinforcement operations. Includes equipment specifications, system design, troubleshooting, and operation of live 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)

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 undarstanding 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 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 sales and highlights its role in the marketing mix. Students will develop basic skills needed to enter the field. Topics include customer buying habits, the sales process, product demonstration techniques, and the analysis of human relations aspects of sales. (F, Sp, Su)

MKTG 122 Field Sales Internship

Prerequisite: Department Approval

Recommended: Have Completed a Minimum of 30 Credits

Practical field sales experience working in consumer or industrial sales. Opportunity to develop advanced selling techniques and refine selling skills. Minimum of 160 hours of work required. (F, Sp, Su)

MKTG 123 Comput Field Sales Internship

Prerequisite: Department Approval

Recommended: Have Completed a Minimum of 30 Credits

Practical computer field sales experience working in consumer or industrial sales. Opportunity to develop advanced selling techniques and refine selling skills. Minimum of 160 hours of work required. (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

Functions and policies: what, when, where, how much, how to, and from whom to buy, 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

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 1.0 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)

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review, marketing plan, creative strategy, and media selection. (F, Sp)

Prerequisite: MTEC 120 2.0 minimum

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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. The development of pre-production processes related to visual composition, scriptwriting, storyboarding, lighting, and floor plot designs are emphasized. An introduction to studio and field production formats is 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) 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 an introductory experience in linear videotape editing. Class sessions will contain instructional and performance exercises which are practical applications of the course content. (F, Sp)

MTEC 153 Video Post-Production Technos

Prerequisite: MTEC 150 2.0 minimum and (MTEC 152 2.0 minimum or Concurrently) and Reading Level 5 and Writing Level 6

Video Post-Production Techniques is designed to provide the student with an extensive experience in both linear and non-linear post-production technologies. Learning activities within and outside the classroom are designed to provide a solid technical and creative foundation in the procedures used in the creation of video programming. (F, Sp)

MTEC 220 Audio Production II

tion for video. (F, Sp)

Prerequisite: MTEC 120 2.0 minimum

Recommended: Basic Computer Skills A second course in audio production providing advanced audio theory and production practice. Included are topics in tape editing of musical material, use of audio effects in production, additional production mixing, and audio post-produc-

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 the use of SMTE and MIDI. (Sp)

MTEC 223 Sound Reinforcement Practicum

Prerequisite: MTEC 122 2.5 minimum and Department Approval A practical sound reinforcement activity combining specific theories related to the larger project with the opportunity to design, assemble, load, transport, erect, operate, and strike a large outdoor reinforcement system. Students operate the

MTEC 230 Radio Production II

Fourth of July. (Su)

Prerequisite: MTEC 130 2.0 minimum

Recommended: Basic Computer Skills

Presentation of advanced studio and remote-production techniques. Emphasis on writing, producing, and performing for commercials, news, and sports programs. (F, Sp)

MTEC 231 Radio Programming and Promo

Prerequisite: MTEC 130 2.0 minimum

Recommended: Basic Computer Skills

A survey of diverse radio formats. Consideration is given to the role of the program director and the tools used in format decision-making. Techniques used in creating and promoting station image and the effects of ratings are analyzed. (Sp)

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 work in a variety of station staff positions. (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

Basic writing techniques and formats used in preparing program scripts for television, radio, and multimedia productions. Emphasis on practical copyrighting techniques for commercial, promotion, public affairs, documentary, and entertainment programs. (Sp)

MTEC 241 Radio News Reporting

Prerequisite: MTEC 130 2.0 minimum and WRIT 121 2.0 minimum

Recommended: Basic Computer Skills

Survey of the broadcast news industry with special emphasis on radio news. This course includes practical exercises in preparing news stories through writing, production, and presentation. Interviewing and feature production are also covered. (F)

Prerequisite: MTEC 110 2.0 minimum

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An introductory course to the profession of advertising sales as it relates to the broadcast media but with special emphasis on radio---the primary training ground for broadcast media account executives. This course covers the profession from advertising basics to the activities of a winning radio sales superstar. (Sp)

MTEC 243 Ethics/Social Impact of Media

Prerequisite: MTEC 110 2.0 minimum and WRIT 121 2.0 minimum

Recommended: Basic Computer Skills

This course 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)

Prerequisite: MTEC 151 2.0 minimum or (MTEC 152 2.0 minimum and MTEC 153 2.0 minimum) or IMAG 118 2.0 minimum and

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)

IMAG 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 Electronic Presentat Graphics 3

Prerequisite: MTEC 150 2.0 minimum

An introduction to the production of electronically-generated visuals for use with video presentations. Computer and video hardware will be used to create desktop graphics and special effects as elements of television programs. (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 during the semester. 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 242 Radio Sales and Marketing

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MTEC 251 Advanced Field Production

Reading Level 5 and Writing Level 6

MTEC 252 Lighting for Television/Video

Prerequisite: (MTEC 150 2.0 minimum or THEA 111 2.0 minimum or

system to provide reinforcement for the bands that play in Riverfront Park on the

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Recommended: Basic Computer Skills



MTEC 290 - MUSC 143

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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

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: Medie Technology Majors

Recommended: 75% of the way through Media Technology Program

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 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

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 programs. (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

An opportunity for students to work closely with faculty in the design and development of media-based programs and projects to be used by departments or divisions within the College, (F, Sp, Su)

MUSC MUSIC

MUSC 100 Summer Chorus

Prerequisite: None

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 two to four concerts throughout the year. Students are required to attend live performances. May be taken up to six semesters for credit. (Su)

MUSC 101 Lanswingers Vocal Ensemble

Prereguisite: Vocal Audition - Lanswingers

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: None

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)

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MUSC 103 Men's Ensemble

Prerequisite: None Recommended: Music Reading Skills

An ensemble of male vocalists which develops general musicianship and provides training in choral singing. This group performs two to three concerts each semester. Men's Ensemble may be teken up to six semesters 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)

MUSC 108 Concert Choir

Prerequisite: None

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: Instrumental Audition - Percussion

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 123 Jazz Ensemble

Prerequisite: Jazz Ensemble Audition

Recommended: Music Reading Skills

The jazz ensemble will rehearse and perform pieces of various styles and from various periods in jazz and big band development. 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, Su)

MUSC 138 Class Plano 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 plano 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 through 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 piano. 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. (Su)

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MUSC 144-MUSC 194

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MUSC 144 Beginning Plano I

Prerequisite: Reading Level 3 and Writing Level 2

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 Piano II

Prerequisite: MUSC 144 2.0 minimum and Reading Level 3 and Writing Level 2 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)

MUSC 154 Class Voice Commercial I-Summr

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, 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 five 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

Prereguisite: None

This course allows students to develop their aural capacity through exercises in beginning metodic and rhythmic dictation. The ability to sing metodies on sight through the use of solfeggio will also be developed. This is the first of two courses in freshman aural skills. (F)

MUSC 164 Aural Skills II

Prerequisite: MUSC 163 2.0 minimum

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. (Sp)

MUSC 179 Class Voice Major I

Prerequisite: WRIT 121 2.0 minimum or (Reading Level 5 and Writing Level 6) **Restriction: Music Majors**

This course is designed to train singers in the International Phonetic Alphabet, assisting them in the pronunciation of English and foreign languages. This course focuses on English and Italian IPA skills, using the literature of major composers from the United States, Great Britain, and Italy with historical and performance emphasis. Students are required to attend live performances. (F)

MUSC 180 Class Voice Major II

Prerequisite: MUSC 179 2.0 minimum and (WRIT 121 2.0 minimum or Reading Level 5 and Writing Level 6)

Restriction: Music Majors

This course continues to train singers in the use of the International Phonetic Alphabet, Focus is on the German and French languages, with a historical and performance emphasis. These language skills will be utilized in performing the literature of the major composers of German lieder and French chanson. Students are required to attend live performances. (Sp)

MUSC 181 Class Voice I - Summer

Prereguisite: 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. (Su)

MUSC 182 Class Voice I

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

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)

MUSC 187 Class Guitar - Summer

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. (Su)

MUSC 188 Class Guitar

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 oredit. (F, Sp)

MUSC 193 Basic Musicianship I

Prerequisite: MUSC 168 2.0 minimum and Reading Level 5 Co-requisite Course: MUSC 163

This course allows students to gain knowledge and skills necessary to hear and notate pitches, rhythms, scales, modes, and intervals. This course is the first in a sequence of two courses in music theory. It serves as a freshman requirement for a four-year college music degree. (F)

MUSC 194 Basic Musicianship II

Prerequisite: MUSC 193 2.0 minimum and Reading Level 5 Co-requisite Course: 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)

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MUSC 199-MUSC 280

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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

Prerequisite: Reading Level 5 and Writing Level 4

An overview of the history, philosophy, and methodologies and practices of Music Therapy and the use of music in therapeutic aims of restoring, mainteining and improving both mental and physical health. Exploration and assessment of various clinical techniques and the disorders/patient populations they address. Off-campus field experiences required. (F, Sp)

MUSC 230 Directed Independent Study

Prerequisite: Department Approval

Restriction: Music Majors

Advanced study in areas relating to, but not taught in, the curriculum. Student will meet with an assigned faculty member once per week. Students must submit written application detailing their projects for department approval. Students are required to attend live performances. (F, Sp)

MUSC 232 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 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

Prerequisite: Reading Level 5 and Writing Level 6

Basic musical elements and the ways which civilizations/cultures use music will be introduced. This includes composers and musical characteristics of specific style periods starting with ancient civilizations of the world through the year 1600. Eastern and Western music will be compared/contrasted in focus, content, and process. (F)

MUSC 241 World Music History II

Prerequisite: Reading Level 5 and Writing Level 6

Building on historical information gleaned from MUSC 240, this class covers world music history from 1600 to the present. Characteristic music, musicians, and instruments from all areas of the world are discussed, focusing on uses/functions and qualities of music, and emphasizing similarities and differences between world cultures. (So)

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 tearning environment. (F, Sp)

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)

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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. (Sp)

MUSC 253 Business of Music

Prerequisite: None

An introduction to the business aspects of the music industry. Areas covered include copyrights, contracts, trademarks, publishing, recording and record company operations, personal managers, booking agents, concert promotions, and unions. Students are required to attend live performances. (F)

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

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

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 I

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 are required to attend live performances. (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, Su)

MUSC 280 Private Songwriting

Prerequisite: Music Major Audition

Restriction: Music Majors

Private coaching for music majors, 40 minutes per week, in writing and copyrighting music compositions, giving attention and suggestion in harmony, chord substitution, and formal design. Students are required to attend live performances. May be taken up to six semesters for credit. (F, Su)

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MUSC 293 Advanced Musicianship I

Prerequisite: MUSC 194 2.0 minimum and Reading Level 5

Co-requisite Course: 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: 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 297 Synthesizers & Computer Music

Prerequisite: None

Recommended: Music Reading Skills

This course introduces students to the role of computers in the music discipline. Topics include basic IBM and Macintosh personal computer skills, a thorough exploration of MIDI, music sequencing software, music printing software, and orchestration with electronic/digital instruments. (F, Sp)

NURS - NURSING

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 nursing homes, extended care facilities, and hospitals. (F, Sp)

NURS 160 Acute Nursing Care

Prerequisite: NURS 150 2.5 minimum and NURS 200 2.5 minimum and

PHGY 202 2.5 minimum and (PSYC 205 2.5 minimum or Concurrently)

Co-requisite Course: 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 PHGY 202 2.5 minimum and (PSYC 205 2.5 minimum or Concurrently)

Co-requisite Course: NURS 160

The concepts of maternity nursing, well-child care, and therapeutic communication are discussed. Assessment and care of the childbearing family is presented. Basic needs and developmental tasks of childhood are discussed including effects of change in family systems. Clinicals are in maternal-child units of hospitals and community agencies. (F, Sp)

NURS 200 Pharmacology

Prerequisite: PHGY 202 2.0 minimum 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. Students are expected to calculate drug dosages. (F, Sp, Su)

NURS 210 LPN-RN Transition

Prerequisite: Department Approval and Reading Level 5 and Writing Level 6 Recommended: Current Work Experience and Current BCLS and OSHA Introduces the returning licensed practical nurse (LPN) to the nursing process, patient records, role transition, and curriculum concepts. Assessment and evaluation of nursing skills will be done. (F, Sp)

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: 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 and maternal 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: 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: MICR 203 2.5 minimum and NURS 260 2.5 minimum and

NURS 265 2.5 minimum

Co-requisite Courses: NURS 285 and NURS 290

Recommended: MICR 204

The student will use the nursing process in caring for adult clients adapting to chronic health problems. Client adaptation to chronic illness, selected neurological and immune system problems, cancer, AIDS, and care of the dying client is discussed. Clinical experiences in nursing homes, home health care agencies, and selected community facilities. (F, Sp)

NURS 285 Advanced Acute Nursing Care

Preraquisite: MICR 203 2.5 minimum and NURS 260 2.5 minimum and NÜRS 265 2.5 minimum

Co-requisite Courses: NURS 280 and NURS 290

The student will use the nursing process in caring for adult clients adapting to critical health problems. Homeostatic changes in the neurological, cardiovascular, and respiratory systems is discussed, as well as fluid-electrolyte and acid-base imbalance. Clinical experiences are in acute care hospitals. (F, Sp)

NURS 290 Leadership in Nursing Care

Prerequisite: MICR 203 2.5 minimum and NURS 260 2.5 minimum and NURS 265 2.5 minimum

Co-requisite Courses: NURS 280 and NURS 285

The role of the nurse as manager of care and the role of the associate degree nurse within the discipline of nursing are presented. Students are expected to use the nursing process with various management systems within a health care system. Clinicals in acute care hospitals and nursing homes. (F, Sp)

OADM - OFFICE ADMINISTRATION

OADM 102 Editing Business Documents

Recommended: WRIT 114 or Proficiency in English Grammar and Mechanics This course teaches office personnel applied editing skills for business documents and emphasizes locating and correcting errors in typing, word division, format, numbers, word usage, capitalization, and punctuation. Grammar rules will be reviewed as needed. Classroom activities may require completion of some exer-

OADM 110 Machine Transcription

Recommended: (CABS 105 or CABS 113) and WRIT 114

This course is designed for the production of mailable communications by using transcribers, recorded cassettes, and an IBM PC with word processing software. Proficiency in spelling, punctuation, grammar, and business vocabulary is emphasized. (F)

OADM 150 Cert Pro Secretar (CPS) Rvw I

Prerequisite: None

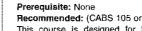
Recommended: Experience as Professional Secretary

Discussion of the secretary's proficiency in office administration and communication. Executive travel, office management, records management and reprographics, written business communications, editing, abstracting, and preparing communications in the final format. (F, Sp, Su)

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Prerequisite: None

cises in one of the computer labs. (F, Sp, Su)



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OADM 155-PARA 231

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OADM 155 Cert Pro Sec (CPS) Rvw II

Prerequisite: None

This course covers the basics of office technology and behavioral science. Topics include automated office systems, telecommunication, and problem solving. (F, Sp, Su)

OADM 195 Human Behavior in Work Place

Prerequisite: None

This course emphasizes the importance of the skill of human relations in the workplace. Through a combination of case studies, self-analysis exercises and discussion, students become more aware of the impact of positive interactions at work. Proficiency in enhancing good human relations and in handling difficult situations is stressed. (F, Sp, Su)

OADM 197 Medical Vocabulary

Prerequisite: Reading Level 3

This course provides a medical language foundation that students need for jobs in the healthcare industry. Emphasis includes spelling, definition structure, and concepts of medical terminology using a body-systems approach. Anatomy, physiology, pathology, and diagnostic terms are presented within a framework of infant-to-seniors health care. (F, Sd)

OADM 198 Nealth Information Management

Prerequisite: None

Recommended: OADM 197 or Equivalent

This course is a study of the diverse settings of health information management. 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 new trends will be introduced. (Sd)

OADM 200 Critical Thinking

Prerequisite: None

Critical thinking is designed to provide basic and higher-order thinking skills including reasoning, creative thinking, decision-making, and problem solving. Emphasis is placed on gaining proficiency in critical awareness to enable students to confidently appraise and discriminate information, problems, issues, etc., whether in a societal, educational, or organizational setting. (F, Sd)

OAOM 203 Professional Office Procedures

Prerequisite: None

The topics of this course include telephone techniques, handling incoming and outgoing mail, writing certain office documents such as minutes and reports, planning meetings and travel arrangements, and interviewing. Computer usage may be emphasized. (F, Sd)

OADM 206 Legal Vocabulary and Form Prep

Prerequisite: None

Recommended: Word Processing Experience

This course utilizes basic legal terminology in general and specialized areas of law. It defines legal terms and their use in legal context and stresses forms preparation. (Sd)

OADM 207 Medical Transcription

Prerequisite: None

Recommended: (OADM 197 or CHSE 121) and (ANAT 145 or ANAT 151) and Typing Experience

This course is designed to develop skill in defining and transcribing medical reports with the use of transcriber and microcomputer. Emphasis is on development of accuracy and knowledge of medical terminology for the transcription of medical reports. (F)

OADM 215 Records and Info Management I

Prerequisite: None

Presents an overview of records management and how control over documents is maintained at each stage of the records cycle from creation to disposition; complete coverage of all records methods and indexing rules for alphabetic, subject, geographic, and numeric; selection of proper equipment; computer applications modules using various database applications; procedures for control of an automated records technology in a systems environment. (F, Sd, Su)

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OADM 216 Records and Info Management II

Prerequisite: None Recommended: OADM 215

This course provides an in-depth study including the essentials of establishing and/or evaluating an existing records management program from preparing an inventory, developing a retention schedule, developing a disaster recovery plan for records to long term archival storage for electronic as well as paper media, managing, analyzing, designing paper and electronic forms; micrographic and optical disk systems in use; emphasis is placed on use of records management software and database management. (Sd)

OADM 220 Administrative Office Mgmt

Prerequisite: Reading Level 3 and Writing Level 4

This course emphasizes the principles of office management for an ever-changing, culturally diverse staff. Topics deal with managing and controlling administrative services in a workplace including office functions, job analysis, ergonomic planning, designing, installing, and evaluating improvements in office systems. (F, Sd)

OADM 222 Advanced Medical Transcription

Prerequisite: OADM 207 2.0 minimum

This course is designed to equip students with entry-level medical transcription skills. This course incorporates advanced medical terminology and actual physician dictation from a wide variety of medical specialties. (Sd)

OADM 240 Office Internship

Prerequisite: None

Recommended: See Internship Coordinator Before Registering

This course is designed to provide on-the-job training relating to an office administration major. Placement is made in an approved training station to earn credits for satisfactory work performance and to earn wages for work performed. Volunteer work may be substituted for earning wages. Minimum of 180 hours work is required. (F, Sd, Su)

OADM 275 Cultural Differences in Busn

Prerequisite: Reading Level 5 and Writing Level 4

This course is designed to help students become familiar with, understand, and appreciate people from 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, Sd)

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 Courses: PARA 231 and PARA 241 and PARA 251 and PARA 261 Builds on previous knowledge acquired as a basic EMT. Provides theoretical background material for management of prehospital emergencies. Course includes roles and responsibilities, anatomy/physiology, airway maintenance, parenteral therapy, assessment and management of respiratory, maternal, neonatal, and pediatric emergencies. (F)

PARA 222 Paramedic Medical Trauma II

Prerequisite: PARA 221 3.0 minimum

Co-requisite Courses: PARA 232 and PARA 242 and PARA 252 and PARA 262 and PARA 263

PARA 222 incorporates previous knowledge of basic EMT and PARA 221. Provides theoretical background 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 Courses: PARA 221 and PARA 241 and PARA 251 and PARA 261 Enables paramedic students to read EKG rhythm strips. It will give them background and understanding of the anatomy, physiology, electrophysiology, and pathophysiology of the heart and cardiovascular system. Much emphasis will be placed on arrhythmia interpretation, treatment modalities, and patient management. (F)

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	PARA 232-PFAQ 116
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PARA 232 Paramedic Cardiology II 2	PFAQ 101 Swimming: Stroke Development 1
Prereguisite: PARA 231 3.0 minimum	Prereguisite: None
Co-requisite Courses: PARA 222 and PARA 242 and PARA 252 and	Recommended: PFAQ 100
PARA 262 and PARA 263	This course stresses development of skills in front crawl and backstroke. Students
Utilizes information learned in PARA 231 as a basis for more advanced arrhythmia	will be introduced to the elementary backstroke and breaststroke. (F, Sp, Su)
interpretation. Management of cardiac arrest including medications, cardioversion,	
and defibrillation will be a major emphasis. Pacemakers, other advanced proce-	PFAQ 104 Swimming/Training
dures, and arrhythmia will be presented. Application of information, judgment, and decision-making are evaluated. (Sp)	Prerequisite: None
	This course is designed for persons interested in skill development in all compet-
PARA 241 Paramedic Pharmacology I 2	itive swimming strokes as well as in a fitness program design. The student should
Prerequisite: Admission to Paramedic Program	be able to swim 500 yards in 10 minutes. (F, Sp, Su)
Co-requisite Courses: PARA 221 and PARA 231 and PARA 251 and PARA 261	PFAQ 105 Advanced Swimming/Training 2
The first course in a two-course sequence. Designed to give the student back-	
ground information necessary for the preparation and administration of drugs used in the field. ACLS drugs will be covered in-depth. (F)	Prerequisite: None Recommended: PFAQ 104
in the acid. Acid druge was be covered in depart (r)	This course is designed for the competitive swimmer seeking a high level of
PARA 242 Paramedic Pharmacology II 2	swimming. Advanced swimming/training incorporates some dry land training and
Prerequisite: PARA 241 3.0 minimum	waterpolo. (F, Sp, Su)
Co-requisite Courses: PARA 222 and PARA 232 and PARA 252 and	· · · · · · · · · · · · · · · · · · ·
PARA 262 and PARA 263	PFAQ 106 Water Walking/Toning
The second course in a two-course sequence. In-depth information on ACLS	Prerequisite: None
drugs will be covered. Common drugs that paramedics administer in the field will also be covered. Drug classification, action, use, and side effects are included.	This course utilizes a variety of walking moves in shallow water to enhance car-
(Sp)	diovascular fitness. Toning exercises for arms, abdominal, and thighs are used extensively. (F, Sp, Su)
	extensively. (r, op, ou)
PARA 251 Paramedic Skills I 2	PFAQ 107 Water Exercise I
Prerequisite: Admission to Paramedic Program	Prereguisite: None
Co-requisite Courses: PARA 221 and PARA 231 and PARA 241 and PARA 261	This course utilizes stationary water exercises and water games to improve car-
Provides introduction of the paramedic skills required for advanced life support and provides the opportunity to apply theory courses information to field practice	diovascular fitness and flexibility. No swimming skills required. (F, Sp, Su)
in a tabletop setting. Skills will be demonstrated, practiced during supervised labs,	
and tested for competency. Must have excellent basic EMT skills upon entry. (F)	PFAQ 110 Hydro-Fit Exercise I 1
· · · · · · · · · · · · · · · · · · ·	Prerequisite: None
PARA 252 Paramedic Skills II 2	This course is designed to give the student an overall water fitness workout with
Prerequisite: PARA 251 3.0 minimum Co-requisite Courses: PARA 222 and PARA 232 and PARA 242 and	little impact to joints or back. The class is held in deep water while exercising with Hydro-Fit weights. Participants must be comfortable in deep water. (F, Sp, Su)
PARA 262 and PARA 263	
A continuation of Skills I with the introduction of new skills and additional applica-	PFAQ 111 Hydro-Fit Exercise II 2
tion of theory. Measurement criteria for Skills I competencies becomes more strin-	Prerequisite: None
gent and students must become competent in all paramedic skills as well as applying theory to practice. (Sp)	Recommended: PFAQ 110
	This course is a water fitness program using water resistance to tone, strengthen,
PARA 261 Paramedic Clinical I 3	develop coordination, and increase flexibility by using Hydro-Fit exercise equip- ment. Emphasis is placed on increasing abdominal, shoulder/arm, and lower body
Prerequisite: Admission to Paramedic Program	strength. (F, Sp, Su)
Co-requisite Courses: PARA 221 and PARA 231 and PARA 241 and PARA 251	
Provides clinical time for parametic students in the first semester. Assignments	PFAQ 112 Scuba 2
include nursing home; hospital units such as ED, CCU, ICU, Burn Unit, QB, and Peds; Psych unit simulations on-campus; and designated EMS agencies under	Prerequisite: None
licensed paramedics. (F)	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
PARA 262 Paramedic Clinical II 4	eligible for scuba certification following open water training. (F, Sp, Su)
Prerequisite: PARA 261 3.0 minimum	PFAQ 114 Parent/Infant Water Adjustment .5
Co-requisite Courses: PARA 222 and PARA 232 and PARA 242 and PARA 262 and PARA 262	-
PARA 252 and PARA 263 Provides clinical time for paramedic students in the second semester.	Prerequisite: None This course places emphasis on paren/infant water adjustment, safety, and tun.
Assignments include hospital units such as ED, CCU, ICU, Burn Unit, OB, and QR;	Emphasis is placed on development of water experience and improvement of
simulations on-campus; designated EMS agencies under licensed paramedics;	motor skills and coordination, (Infant ages between 6 months to 2 years) (F, Sp)
and a community service project. (Sp)	κ.
PABA 263 Paramedic Internship 3	PFAQ 115 Parent/Toddler Water Adjustmnt .5
Preregulsite: PARA 221 3.0 minimum and PARA 231 3.0 minimum and	Prerequisite: None
PARA 221 3.0 minimum and PARA 231 3.0 minimum and PARA 251 3.0 minimum and	Recommended: PFAQ 114
PARA 261 3.0 minimum	This course places emphasis on parent/toddler water adjustment, skill develop-
Co-requisite Courses: PARA 222 and PARA 232 and PARA 242 and	ment, safety, and fun. Emphasis is on development of water experiences, improve- ment of motor development, coordination, and social skills. Toddlers should be 2
PARA 252 and PARA 262	to 5 years old, depending upon skill development and/or instructor approval.
This course provides field internship with paramedic agency and testing for certification in Advanced Cardiac Life Support (So)	(F, Sp)
certification in Advanced Cardiac Life Support. (Sp)	
	PFAQ 116 Parent/Child Swim .5
PFAQ - PHYSICAL FITNESS: AQUATICS	Prerequisite: None
	Recommended: PFAQ 115

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instructor's approval. (F, Sp)

PFAQ 100 Swimming: Primary Skills

Prerequisite: None

This course focuses on the development of basic swimming strokes, rhythmic breathing, survival swimming, and beginning diving skills. (F, Sp, Su)

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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

PFAQ 118-PFFT 102

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DEAD 140 Subbility Securities	DEOWLANA De te Dellate -	
PFAQ 118 Arthritis Aquatics 1	PFCW 111 Body Building:	
Prerequisite: None	Prerequisite: None	
This course will give the student exercises for range of motion in comfortable water	Recommended: PFCW 108	
temperatures and will improve and help maintain flexibility and well-being. Arthritis	This course expands the st	
Foundation approved program. (F, Sp)	increase variations and met	
PFAQ 119 Scuba Certification Class 1	food intake to provide inform (Sp, Su)	
Prerequisite: PFAQ 112 2.0 minimum or PEAF 112 2.0 minimum	(op, ou)	
This course is designed to allow students who have completed scuba PFAQ 112	· ·	
or equivalent to complete their open water scuba certification training. Upon suc-		
cessful completion of the class, the student will receive Scuba Schools		
Internationals' open water cartification. (F, Sp, Su)	PFDA 142 Ballroom Swing	
	PPDA 142 Dailtoom Swin	

PFCW - PHYSICAL FITNESS: COMBATIVE/WEIGHT TRAINING	
PFCW 100 Fencing: Beginning Prerequisite: None This course is designed to introduce the student to basic skills and theories in fencing. Course emphasis is placed on basic skills such as advance, retu lunge, disengage, coupé, one-two doublé, riposte, counter parry and riposte, advance-lunge. Group instruction is used. (F, Sp, Su)	reat,
PFCW 101 Fencing: Intermediate	1
Prerequisite: PFCW 100 2.0 minimum This course builds upon the 12 basic fencing skills and introduces rules complex fencing movements. Students will use acquired skills in fencing bc (F, Sp, Su)	
PFCW 103 Judo: Beginning	1
Prerequisite: None This course is designed to familiarize students with basic Judo techniques falling, throwing, and grappling. (F, Sp, Su)	s of
PFCW 104 Judo: Intermediate	1
Prerequisite: None Recommended: PFCW 103 This course works toward a series of sequential Judo movements with contin emphasis on throwing and grappling. (F, Sp, Su)	ued
PFCW 105 Karate: Beginning	1
Prerequisite: None This course introduces the basic skills of karate: kicking with the feet and kne and punching with the fist and hands, (F, Sp, Su)	ees,
PFCW 106 Karate: Intermediate	1
Prerequisite: None Recommended: PFCW 105 This course further develops karate skills in punching with the fists and har kicking with feet and knees, and essential body movement in combative activi with an emphasis on free sparring, (F, Sp, Su)	
PFCW 107 Karate: Advanced	1
Prerequisite: None Recommended: PFCW 105 or PFCW 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)	
PFCW 108 Weight Training: Beginning	2
Prerequisite: None This course is designed to promote physical fitness through weight traini Instruction will include different principles, methods and techniques for progress resistance training. Students will design their own with emphasis on weight red tion, muscle strengthening, and body building. (F, Sp, Su)	sive
PFCW 109 Body Building: Introduction	1
Prerequisite: None This course is designed to introduce weight training and proper lifting techniqu Introduction to safety rules, proper use of machinery, and concepts of lifting will emphasized. (F, Sp, Su)	
PFCW 110 Body Building: Beginning Prerequisite: None	ୁ2

Prerequisite: None

This course acquaints students with the beginning aspects of body structuring through the application of weights. Emphasis on weight reduction or increase in muscle size through an individualized training program is stressed. (F, Sp, Su)

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Intermediate

or PFCW 110

udent's ability to use machines and free weights to hods of lifting techniques. Students will also monitor ation to assist with proper diet and nutritional needs.

SSEDANCE COURSES

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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)

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. Enroliment 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)

PFDA 158 Line Dancing

Prerequisite: None

Line dancing provides a fun way for students to learn basic steps and patterns to a variety of dances. The class consists of Western dances, Latin dances, and ballroom dance steps. Partner unnecessary. (F, Sp)

PFFT PHYSICAL FITNESS FITNESS COURSES

PFFT 100 Total Fitness A

Prerequisite: None

This course is a comprehensive fitness course with a view toward the whole person. Students will be given a fitness assessment including aerobic capacity and strength. Students will develop an exercise plan tailored to their individual needs, with the guidance and supervision of their instructor. (F. Sp. Su)

PFFT 101 Total Fitness B

Prerequisite: None

This course views the whole person's fitness needs. Students will be given a fitness assessment, including aerobic capacity, body composition, flexibility, and strength. Students will receive a computer-generated exercise plan tailored to individual needs. Nutritional aspects of health will be discussed. (F, Sp, Su)

PFFT 102 Total Fitness C

Prerequisite: None

This course is a comprehensive fitness course with a view of the whole person. Students will be given a fitness assessment, including aerobic capacity, body composition, circuit-training, and strength. Students will receive a computer-generated exercise plan tailored to individual needs. Nutritional aspects of health will be discussed as well as stress reduction techniques. (F, Sp, Su)

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PFFT 103 Total Fitness D	2	PFHW - PHYSICAL FITNESS: HEALTH/FITNESS WELLNESS
Prerequisite: None This course involves students in planning a fitness regimen. Students will be give	en	PFHW 100 Health and Wellness Seminar .5-2
a fitness assessment, including aerobic capacity, body composition, flexibility, at strength. Students will receive a computer-generated exercise plan tailored to inv vidual needs. Nutritional aspects of health and stress reduction techniques will I discussed as part of daily lifestyles. (F, Sp, Su)	di-	Prerequisite: None This course introduces the student to eight hours of various topics related to health awareness, wellness, and/or prevention. (F, Sp, Su)
PFFT 105 Aerobic Walking	2	PFHW 105 Med Alternatives/Hith & Wins 2
Prerequisite: None		Prerequisite: None This course discusses alternatives in maintaining health and correcting illness.
This course centers on improving one's fitness level through outdoor walking at a individually determined speed. Students will also develop a personalized healt lifestyle plan which integrates exercise, diet, and stress management. (F, Sp, St	hy	The students will examine the six major medical systems, as well as many atter- native therapies from around the world. (F, Sp)
PFFT 107 Jogging: Beginning	1	PFHW 109 Emergency Services Fitness I I Prereguisite: None
Prerequisite: None	for	Restriction: Emergency Medical Services, Paramedic or Fire Science student
This course introduces jogging as a fitness modality and covers how to care f feet, proper equipment choices, clothing, and safety. (F, Sp, Su)	.01	This course provides emergency service students with techniques and practice to maintain and improve the high degree of physical fitness necessary to meet the
PFFT 111 Aerobic Boxing	.5	demands of their profession. (F, Sp, Su)
Prerequisite: None		PFHW 110 Emergency Services Fitness II
This course will teach the art of self-defense while improving your aerobic an anaerobic capacity. (F, Sp, Su) $% \left(F,Sp,Su\right) =0$		Prerequisite: None Restriction: Emergency Medical Services, Paramedic or Fire Science student
PFFT 112 Body Flexibility	1	A continuation of PFHW/PEAK 109. This course provides emergency service stu- dents with techniques and practice to maintain and improve the high degree of
Prerequisite: None		physical fitness necessary to meet the demands of their profession. (F, Sp)
This course is designed to increase body flexibility by learning proper stretchin techniques and applying these techniques to increase range of motion and mu		PFHW 111 Emergency Services Fitness III 1
cle flexibility. (F, Sp, Su)		Prerequisite: None
PFFT 113 Tone and Stretch	1	Restriction: Emergency Medical Services, Paramedic or Fire Science student A continuation of PFHW/PEAK 110. This course provides emergency service stu-
Prerequisite: None This course combines calisthenics and stretching. Students will use floor exercise	00	dents with techniques and practice to maintain and improve the high degree of physical fitness necessary to meet the demands of their profession. (F, Sp)
to tone muscles and increase flexibility. Proper stretching techniques will the emphasized. Students will examine which muscle groups are being worked. (F, S	be	
Su)	<i>,</i> ρ,	PFHW 112 Emergency Services Fitness IV 1 Prerequisite: None
PFFT 114 Advanced Circuit Training	2	Restriction: Emergency Medical Services, Paramedic or Fire Science student
Prerequisite: None Co-requisite Courses: CJUS 260 and CJUS 261 and CJUS 262 and CJUS 26 and CJUS 264 and CJUS 265 and CJUS 266 and CJUS 267 and		A continuation of PHFW/PEAK 111. This course provides emergency service stu- dents with techniques and practice to maintain and improve the high degree of physical fitness necessary to meet the demands of their profession. (F, Sp)
CJUS 268 This course is designed to incorporate strength conditioning, muscle endurance	æ,	PFHW 123 Human Nutrition 3
flexibility, and cardiovascular training for a total body workout. This can be accor plished in a relatively short time frame by utilizing the circuit training metho (F, Sp, Su)	n-	Prerequisite: Reading Level 5 Recommended: Biology An introductory course in human nutrition. Topics include the role of nutrients; digestion, absorption, and metabolism of nutrients; role of vitamins and minerals;
PFFT 120 Aerobic Exercise	2	and the introduction of current and controversial topics when relevant. Such topics can include fad diets, obesity, nutrition of athletes, food labels, alcohol, sugar, and
Prerequisite: None This course helps students to improve cardiovascular function and oxyge	ən	food additives. (F, Sp, Su)
efficiency to enhance muscle structure and function through toning exercises, ac obic dancing, and stretching. (F, Sp, Su)		PFHW 161 Self-Awareness: Key to Winess 2
· · · · ·		Prerequisite: None This course introduces the student to aspects of self-awareness that can lead to
PFFT 122 Step Aerobics Prerequisite: None	~	greater vitality in all aspects of life. The student will learn ways in which he or she
This course helps students improve cardiovascular efficiency through the use step platforms. Movement combinations with increasing complexity will be used	of	is influenced by family and cultural beliefs. Tools for changing behavior will be presented. (F, Sp)
increase student's balance and coordination. Toning and stretching exercises w be used to complete muscle balancing and flexibility. Educational material will t	vill	PFHW 163 Healthy Lifestyles 2
distributed to increase student's knowledge of fitness and wellness to improve pe	er-	Prerequisite: None This course introduces the student to lifestyle skills that lead to better health. The
sonal quality of life. (F, Sp)		student will learn healthy nutritional habits, basic fitness concepts, positive stress
PFFT 136 Dance Exercise	1	reduction, and development of a personalized healthy lifestyle plan. Assessment skills and wellness concepts will be put into practice. (F, Sp, Su)
Prerequisite: None This course includes warm-ups and exercises from various dance genres inclu		PFHW 169 Fit for Life Exercise
ing ballet, modern, and jazz designed to develop flexibility, strength and coordin tion. Emphasis is placed on toning and stretching. (F, Sp, Su)	а-	Prerequisite: None This course introduces the older student to the benefits and importance of a reg- ular exercise program to combat the debilitating effects which inactivity has upon
PFHC - PHYSICAL FITNESS: HEALTH/FITNESS CARDIAC		aging. The student will learn the benefits of cardiovascular exercise as well as flexibility, mobility, and range of motion. (F, Sp)
PFHC 151 Cardiac Rehab Exercise	3	PFHW 161 Stress Management 1
Prerequisite: Department Approval This continuing course includes medicelly-monitored exercise and educatio	n,	Prerequisite: None
which emphasizes reducing the risk factors known to contribute to heart diseas Methods and level of exercise are determined by the participant's physician ar the program medical director. Monitored by professional staff. (F, Sp, Su)	ie. nd	This course introduces the student to the nature of stress, how it affects us, and techniques to handle it. The student will learn to develop individualized strategies to deal with his or her stress and increase overall health. (F, Sp, Su)

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PFFT 103-PFHW 181

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PFHW 261 Adult Lifestyles Exercise 2	PFIS 115 Tennis: Intermediate
Prerequisite: Current Fitness Evaluation and Department Approval An opportunity for students to maintain and/or improve their fitness level through supervised aerobic exercise sessions and health education. Emphasis is on regu- ar, safe exercise and healthy lifestyles. (F, Sp, Su)	Prerequisite: None Recommended: PFIS 115 This course will introduce the student to the lot ferent serves. The student should be able to de mentals of tennis: ground strokes, net volley, se the game. (F, Sp, Su)
PFIS = PHYSICAL FITNESS: INDIVIDUAL SPORT/INTEREST	
FIS 100 Bowling: Beginning	PFIS 119 Bicycling Camping/Touring
Prerequisite: None This course is a basic introduction to bowling. Primary emphasis is placed on spot powling, release, and approach. Students become familiar with bowling etiquette and scoring. (F, Sp, Su)	Prerequisite: None This course is a two-day, self-contained bicycle Participants carry on their bicycles all gear an Students will cycle 45–50 miles each day. (F, S
PFIS 102 Bowling: Advanced 1	PFIS 120 Tai Chi I
Prerequisite: None Recommended: PFIS 100 or PFIS 101 This course is an extensive review of skills introduced at the beginning and inter-	Prerequisite: None This course introduces the first 30 forms of develop techniques to focus on relaxation and j
nediate levels. Students develop strategies in lane reading. (F, Sp, Su)	PFIS 121 Tai Chi II
PFIS 103 Golf: Beginning 1	Prerequisite: None
Prerequisite: None This course is an introduction to the basics of golf which include equipment, grip, tance and posture, club swing, and the rules end etiquette of golf. (F, Sp, Su)	Recommended: PFIS 120 This course covers more difficult forms in Tai C health and well-being of the whole person. Yan
PFIS 105 Golf: Intermediate 1	to move in slow, smooth, steady, and continuou
Prerequisite: None	PFIS 122 Aikido
Becommended: PFIS 103 his course will review the basics of golf: equipment, grip, stance and posture, and lub swing. Students will be given drills to foster and improve proper swing nechanics for course play. (F, Sp, Su)	Prerequisite: None This course is an introduction to the philosop Aikido as a martial art are introduced. (F, Sp, S
PFIS 108 Pool: Beginning 1	PFIS 123 Aikido: Continuing
PFIS 108 Pool: Beginning 1 Prerequisite: None	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 posi- tion shots such as stop, follow, draw, and center are covered. (F, Sp)	Recommended: PFIS 122 This course presents the 6th KYU forms throu course examines the philosophical underpinnin
PFIS 109 Pool: Intermediate 1	PFIS 124 Yoga: Beginning
Prerequisite: None	Prerequisite: None
Recommended: PFIS 108 This course reviews the fundamentals of stance, grip, bridge, aim, and stroke. Skill improvement and concentration techniques are stressed. (F, Sp)	This course is an introduction to yogic breathin cises with emphasis in guided relaxation and r is used to reduce stress and tension. (F, Sp, St
PFIS 111 Table Tennis: Beginning 1	PFIS 125 Yoga: Continuing
Prerequisite: None This course is an introduction to table tennis 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)	Prerequisite: None Recommended: PFIS 124 This course promotes psycho-physical integrati breathing, stretching, and relaxation. Guided br to enhance depth and quality of relaxation and
PFIS 112 Table Tennis: Intermediate	PFIS 126 Yoga: Special
Prerequisite: None Recommended: PFIS 111 This course is an extension of the beginning course and provides more training n the basic strokes. More advanced strokes such as the loop and the lob are covered. (F, Sp, Su)	Prerequisite: None This course teaches modified and adaptive yo cises to enhance the body's mobility of the Feldenkeis audio and video instructional tapes ment. Self-massage, guided relaxation, and m
PFIS 113 Competitive Table Tennis 1	and tension, as well as to enhance well-being.
Prerequisite: None	PFIS 131 Seminar: Special Subjects
Recommended: 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

PFIS 115 Tennis: Beginning

practice are strongly encouraged, (F, Sp, Su)

Prerequisite: None

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, Su)

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half volley, and a number of difmonstrate and execute the fundave; and the knowledge of scoring

trip in a scenic area of Michigan. items needed for the entire trip. Su)

the Yang-style Tai Chi. Students nner calmness. (F, Sp, Su)

hi. Yang-style Tai Chi stresses the -style movements allow students movement: (F, Sp, Su)

y of Aikido, Basic movements of ı).

1.11 gh the 3rd KYU techniques. This is of Aikido. (F, Sp, Su)

and gentle yogic stretching exereditation. Psycho-acoustic music

n of body and mind through yogic athing and visualization are used meditation. (F, Sp, Su)

ic breathing and stretching exermovement-handicapped person. re used to extend range of movelitetion are used to reduce stress F, Sp, Su}

PFIS 131	Seminar: Special Subjects	the second second	5-3
Prerequisi	te: None		d. 1998
Seminars a	are designed to meet specific commun	iity needs. (F, Sp, Su)	
. 14 			
PFIS 134	Theory and Practice of Yoga	1 (14) ·	2
Prerequisi	te: None	- 11 - 1	
Recomme	nded: PFIS 124		

This class explores the theoretical foundations of yoga and its historical framework. Lecture, discussion, and in-class practice will give participants an opportunity to deepen their understanding of yoga theory and how it pertains to their daily practice. Students will explore how yoga exercises and relaxation practices promote health and fitness through stress reduction. (F, Sp, Su)

	PFIS 139–PFTS 100
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PFIS 139 Therapeutic Touch and Yoga 3	PFOA 111 Seminar: Wild Food Plants
PFIS 139 Therapeutic Touch and Yoga 3 Prerequisite: None	Prerequisite: None
Recommended: PFIS 134	This course introduces 77 kinds of edible wild plants and their toxic look-a-like
This course will combine the theories and practices of yoga and Therapeutic Touch	from Michigan and adjoining states. The students learn to distinguish these plant
(TT). Each class will provide practice in the Theory of Energy as it applies to the	on the basis of observed plant characteristics. The material is illustrated in slide
individual learner and as an agent of healing. Balanced with TT will be physical	and handouts. Several outdoor experiences are provided. Conservation stressed (F, Sp, Su)
postures, breathing and relevant research and theory. (F, Sp)	(r, sµ, su)
PFIS 145 Parent/Child Tumbling I .25	PFPR - PHYSICAL FITNESS: PROFESSIONAL COURSES
Prerequisite: None This course introduces basic tumbling skills to work toward greater motor skill	En Mandal BRANA da da da da da da da da da da da da da
development through tumbling, stretching, balancing skills, and controlled move-	PFPR 103 Athletic Training I
ment. This class is designed for ages 3-4 years. (F, Sp)	Prerequisite: None
	This course is an overview of injury prevention and care techniques, first aid prin ciples, and equipment and facilities. Other course topics covered are taping pro-
PFIS 146 Parent/Child Tumbling II .25	cedures and the legal implications for the athletic trainer. (F, Sp)
Prerequisite: None Recommended: PFIS 145	
This course introduces children to elementary combinations of movements to	PFPR 104 Athletic Training II
enhance flexibility, strength and coordination. Children learn balancing techniques	Prerequisite: PFPR 103 2.0 minimum or PEAA 103 2.0 minimum
and sequential movements on a low balance beam. This class is designed for	This course will complement the skills and knowledge acquired in Athletic Training I. Course emphasis will be placed on injury assessment, injury treatments, and fur
children ages 5 years and up or for those who have completed Parent/Child Tumbling I. (F, Sp)	ther rehabilitation skills as they relate to athletic injury. (Sp)
	PFPR 105 Psychology of Coaching
PFIS 147 Basketball Fitness Training 2	Prerequisite: None
Prerequisite: None This course is not a traditional basketball class. Participants will be in a workout	This course is a comprehensive introduction to the art and science of coaching
class that will have an emphasis on conditioning using basketball drills and bas-	and the art of positive coaching philosophy. (F, Sp, Su)
ketballs. Class activities will include running, continuous movement, shooting, defensive slides, and dribbling. (F, Sp)	PFPR 106 Aerobic Inst Trning & Cert
	Prerequisite: None
PFIS 201 Independent Study .5-4	This course will train the student on how to instruct a safe and effective aerobi
Prerequisite: None	fitness class. High and low impact aerobics, step aerobics, and muscle repetition work using light weights and resistance bands will be emphasized. Safe exercise
This course is a directed research project in the area of physical education, recre- ation, or athletics. (F, Sp, Su)	techniques, developing creative choreography, and teaching modifications for spe
auon, or autenus, (r, op, ou)	cial populations will be covered. Certification exams will be given. (F, Sp)
PFKN - PHYSICAL FITNESS: KINESIOLOGY	PFPR 110 Coaching Basketball
	Prerequisite: None
PFKN 170 Foundations of Kinesiology 2	This course is designed to prepare the student for coaching the technical aspect
Prerequisite: Reading Level 5 and Writing Level 6	of basketball as well as to enhance the student's knowledge of the duties, roles and responsibilities of the coach. Material will apply to all levels of competition wit
This is an introductory professional course in Kinesiology, which examines the multiple aspects of physical education and Kinesiology as a discipline, major, and	emphasis placed on high school and college levels. (F, Sp)
profession. Sub-disciplines and career options in the field, along with historical	
perspectives and current issues in physical education, will also be discussed.	PFPR 111 Coaching Volleyball
(F, Sp)	Prerequisite: None
PFKN 260 Growth and Motor Behavior 3	This course is designed to develop coaching skills in the areas of basic through advanced individual volleyball skills as well as team strategies. Teaching skill pro
Prerequisite: Reading Level 5 and Writing Level 6	gressions and practice planning will be covered. (F, Sp, Su)
This is a fundamental course which investigates the relationship between biologi-	
cal maturation and physical growth as it relates to motor performance and motor	PFPR 112 Coaching Soccer
skills learning. The course will also cover fundamentals of motor learning, stages	Prerequisite: None This course places emphasis on teaching the proper execution of the fundamen
of skill acquisition, physical fitness, and motor abilities of children and youth. (F, Sp)	tal skills and components of soccer. Individual and team skills will be taught as we
	as skill progression. (F)
PFOA - PHYSICAL FITNESS: OUTDOOR ACTIVITY	PFPR 114 Basic Lifeguarding
HERALIHASIOAHIJIMESSA UUDUUNAUNUM	Prerequisite: None
PFOA 105 Angling: Beginning 1	This course is designed to provide the necessary minimum skills of training to
Prerequisite: None	qualify as an entry-level lifeguard. (F, Sp)
This course is an introduction to the sport of angling with demonstrations of basic	PFPR 115 Lifeguard Training
angling tackle and techniques. Information is provided on Michigan sport fish and their habitat. The class will take fishing trips for steelhead, walleye, salmon, trout,	
bass, and other game fish. (F, Sp. Su)	Prerequisite: None This course is designed to provide the necessary minimum skills training for a per
	son to qualify as a non-surf lifeguard. (F, Sp)
PFOA 107 Angling: Advanced 1	
Prerequisite: None This source is designed to improve the angleric shifts and knowledge of fight babi	PFPR 116 Water Safety Instruction
This course is designed to improve the angler's skills and knowledge of fish habi- tat. Many sophisticated angling techniques will be discussed. Weekly fishing trips	Prerequisite: None This course is designed to assist in teaching basic aquatic skills for instructors
for Michigan's premier gamefish are scheduled. (F, Sp, Su)	Teaching modalities and how different students learn is covered. (F, Sp)
PFOA 110 Sem: Wilderness Survival Tech	
PFOA 110 Sem: Wilderness Survival Tech 3 Prerequisite: None	PFTS - PHYSICAL FITNESS: TEAM SPORTS
This course provides basic outdoor survival skills and techniques to campers, out-	DETS 100 Backethall' Beginning
door enthusiasts, and group leaders. Among the topics are shelter, fire, water, sig-	PFTS 100 Basketball: Beginning
nals, orienteering, food procurement, hot/cold stress management, toxic bites, edible plants of the world, and survival at sea. Optional three-day field trip exer-	Prerequisite: None This course introduces the student to the fundamental skills of basketball. Course
cise. (F, Sp, Su)	emphasis is placed on ball handling, passing, shooting, and rules. (F, Sp, Su)
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PFTS 102–PHYS 216

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PFTS 102 Basketball: Advanced

Prerequisite: None

Recommended: 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, Su)

PFTS 103 Volleyball: Beginning

Prerequisite: None

This course introduces the student to the fundamental skills of volleyball. Course emphasis is on proper serving, setting, forearm passing, spiking, positioning, rules, and game strategy. (F, Sp)

PFTS 105	Competitive Volleyball	1

Prerequisite: None

Recommended: PFTS 103

Students in this advanced class will improve the following basic individual skills: forearm passing, setting, serving, spiking, and blocking. Team strategies and player positioning will be taught in detail. (F, Sp)

PFTS 107 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)

PHGY PHYSIOLOGY

PHGY 202 Human Physiology

Prerequisite: ANAT 201 2.0 minimum and Reading Level 5 and Writing Level 6 Recommended: Chemistry and BIOL 121

The physiology, regulation, and biochemistry of the various organ systems in the human body are presented along with the integration of body function. Emphasis is on normal function, but clinical aspacts may be discussed when appropriate. Laboratory topics complement the lecture. (F, Sp, Su)

PHILE 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: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

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)

PHIL 212 World Philosophies II

Prerequisite: WAIT 121 2.0 minimum or WRIT 131 2.0 minimum or

(Reading Level 5 and Writing Level 6)

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)

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PHIL 260 Contemporary Ethical Problems

Prerequisite: Reading Level 5 and Writing Level 4

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 Independent Study 1-4

Prerequisite: Department Approval

Special research projects and/or individual readings in philosophy. Students will invest no less than 32 hours for each credit earned. Enrollment is usually restricted to honors students who have grade point averages of at least 3.0 in courses offered by this department. (F, Sp, Su)

PHON - PHONICS

PHON 108 Introduction to Phonics

Prerequisite: Reading Level 1 and Writing Level 1

Explores 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)

PHYS PHYSICS

PHYS 200 Applied Physics

Prerequisite: Math Level 4 This course includes the basic principles of force, work, rate, resistance, energy and power as applied to the four energy systems: these are mechanical (linear and

rotational), fluid (liquid and gases), electrical and thermal systems. Thesa four systems are developed by utilizing unifying concepts through mathematical expressions. (F, Sp)

PHYS 201 Introductory Physics I

Prerequisite: (MATH 122 2.0 minimum or Math Level 8) and Reading Level 5 and Writing Level 6

First in a two-semester sequence of algebra-based physics courses designed to present the fundamental principles of physics, with applications to other fields. Core topics include one- and two-dimensional, circular and rotational motion, kinematics, forces, energy and momentum. Optional topics include solids and fluids, heat, and atternative energy sources and technologies. Demonstrations and hands-on activities complement the lecture topics. (F, Sp, Su)

PHYS 202 Introductory Physics II

Prerequisite: PHYS 201 2.0 minimum and Math Level 8

Continuation of PHYS 201. Core topics include electricity, magnetism, vibrations and waves, sound, light and optics. Optional topics include nuclear physics, quantum physics, elementary particles, semiconductors, relativity, and cosmology. Demonstrations and hands-on activities and projects complement the lecture topics. (F, Sp)

PHYS 215 Physics I: Mechanics

Prerequisite: MATH 152 2.0 minimum or Concurrently and Reading Level 5 First in a two-semester sequence of calculus-based physics courses for science and engineering students. Topics include force and motion, momentum, work and energy, the conservation laws of energy and momentum, rotational motion, static equilibrium, gravitation, and oscillations. Integrated special topics may include relativity, nuclear physics, and thermodynamics. (F, Sp, Su)

PHYS 216 Phys II:Electrom/Wave/Optic

Prerequisite: PHYS 215 2.0 minimum and MATH 152 2.0 minimum

Second in a two-semester sequence of calculus-based physics courses 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, and physical and geometrical optics. (F, Sp)

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PHYS 225 Physics I Laboratory

Prerequisite: (PHYS 201 2.0 minimum or Concurrently) or (PHYS 215 2.0 minimum or Concurrently) and Reading Level 5

Recommended: Experience with MS Excel or Equivalent Spreadsheet Software Laboratory course which complements Physics I. Experiments include investigations in mechanics and heat. The lab is intended to increase students' knowledge of natural and technological phenomena as they learn effective laboratory techniques for gathering and interpreting data, communicating their results, and designing and implementing individual and team projects. (F, Sp, Su)

PHYS 226 Physics II Laboratory

Prerequisite: (PHYS 202 2.0 minimum or Concurrently) or (PHYS 216

2.0 minimum or Concurrently) and PHYS 225 2.0 minimum Recommended: Experience with MS Excel or Equivalent Spreadsheet Software Laboratory course which complements Physics II. Experiments include investigations in electromagnetism, sound, and optics. The lab is intended to increase students' knowledge of natural and technological phenomena as they learn effective laboratory techniques for gathering and interpreting data, communicating their results, and designing and implementing individual and team projects. (F, Sp)

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. (F, Sp, Su)

POLS 121 State and Local Government

Prerequisite: Reading Level 5

A study of state and local governmental activities, their structures, functions, and methods of organizing resources and making policy. Consideration is given to the relationships between governmental units and the problems they confront, including relations between federal, state, and local government. (F, Sp, Su)

POLS 205 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, Su)

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, Su)

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 Amer Pol Parties/Interest Grps

Prerequisite: Reading Level 5

Emphasizes the origins, structure, and functions of political parties, examines the American political system in terms of citizens' concerns about community and government, and serves as a guide to political action by the citizenry. Included is the role and function of interest groups in American politics. (F)

POLS 260 Comparative Political Systems

Prerequisite: Reading Level 5

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, Su)

POLS 270 International Relations

Prerequisite: Reading Level 5

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 Indep Study in Political Sci

Prerequisite: Department Approval

Independent project involving research, reading, and experience in political science. The project, chosen by the student, must be approved in advance by the department chair, must be supervised by a member of the faculty, and must meet specific academic goals. (F, Sp, Su)

PSYC - PSYCHOLOGY

PSYC 175 Psych of Death:Prep for Living

Prerequisite: Reading Level 5 and Writing Level 4

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, funerals 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 and Writing Level 4

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, personality, abnormality, therapy, and social behavior. (F, Sp, Su)

PSYC 202 Psychology of Personality

Prerequisite: PSYC 200 1.0 minimum and Reading Level 5 and Writing Level 4 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, Su)

PSYC 203 Social Psychology

Prerequisite: (PSYC 200 1.0 minimum or SOCL 120 1.0 minimum) and Reading Level 5 and Writing Level 4

A theoretical and empirical approach to understanding individual social and group behavior. Examines the person and the social environment with a focus on attitudes, interpersonal behavior, and group processes. (F, Sp)

PSYC 204 Educational Psychology

Prereguisite: PSYC 200 1.0 minimum and Reading Level 5 and Writing Level 4 An investigation of the contribution of psychology to education. Emphasis will be placed upon aspects of child growth and development, motivation, learning, measurement, and group dynamics that affect the achievement of pupils in the classroom. (F, Sp, Su of odd years)

PSYC 205 Human Growth and Development

Prerequisite: PSYC 200 1.0 minimum and Reading Level 5 and Writing Level 4 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

Prerequisite: PSYC 200 1.0 minimum and Reading Level 5 and Writing Level 4 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 1.0 minimum or BIOL 121 1.0 minimum or BIOL 127 1.0 minimum) and Reading Level 5 and Writing Level 4

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)

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PSYC 221 Child Psychology

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Prerequisite: PSYC 200 1.0 minimum and Reading Level 5 and Writing Level 4 Explores theories and principles of child development from conception to puberty. The course covers psychological, sociological, and biological aspects of maturation and development. (F, Sp)

PSYC 222 Adolescent Psychology

Prerequisite: PSYC 200 1.0 minimum and Reading Level 5 and Writing Level 4 Examines theoretical and empirical literature related to adolescence, emphasizing biological, psychological, and sociological aspects of maturation and development from puberty to young adulthood. (Sp)

PSYC 240 Psychology of Human Sexuality

Prerequisite: Reading Level 5 and Writing Level 4

An exploration of psychological aspects of human sexuality, including research methods, response, identity, development, attraction and intimacy, communication, orientation, attitudes, diseases, and disorders. (F)

PSYC 250 Abnormal Psychology

Prerequisite: PSYC 200 1.0 minimum and Reading Level 5 and Writing Level 4 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, Su)

PSYC 295 Independ Study in Psychology 1-4

Prerequisite: Department Approval

An independent project involving research, reading, and experience in psychology. The project, chosen by the student, must be approved in advance by the department chair, must be supervised by a member of the faculty, and must meet specific academic goals. (F, Sp, Su)

PVAA - PROPERTY VALUATION AND ASSESSMENT ADMINISTRATION

PVAA 286 Applied Appraisal Concepts I

Prerequisite: None

Recommended: Level 1 State Certification

Field inspection and appraisal of residential, commercial and industrial properties. Emphasis is on potential appraisal problems utilizing the cost approach to value. (Su)

PVAA 287 Applied Appraisal Concepts II

Prerequisite: None

Recommended: Level 1 State Certification

Field inspection and appraisal of commercial and industrial properties which emphasize potential appraisal problems using the cost approach to value, (Su)

PVAA 288 Income Approach to Value I

Prerequisite: None

Recommended: Level 1 State Certification

This course introduces the advanced student to the appraisal concepts used in the appraisal of income-producing properties. (F)

PVAA 289 Income Approach to Value II

Prerequisite: None

Recommended: Level 1 State Certification

Advanced study of the appraisal concepts utilized in the appraisal of income-producing properties. (Sp)

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)

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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 104 Process Control Charting

Prerequisite: QUAL 103 1.5 minimum

This course examines the theory, selection, application and interpretation of variable and attribute control charts, including charts for small runs, target control charts and multiple characteristic control charts. Application of control charts include both manufacturing and service examples, (Sp)

QUAL 107 Problem-Solving Techniques

Prerequisite: None

This course introduces the student to various problem-solving tools and methods that can be used effectively for process or product improvement. A variety of both manufacturing and sarvice applications will be examined. (F)

QUAL 115 Metrology

Prerequisite: QUAL 103 1.5 minimum

Introduces the student to the theory, use and application of conventional and digital precision instrumentation. Designed to fulfill the needs of quality assurance and skilled trades students requiring a foundation in metrology. (F)

QUAL 121 Intro Statistical Process Cont

Prerequisite: None

This course provides an introduction to statistical process control (SPC) philosophy and techniques. SPC is a means of controlling and improving processes through the use of dala. Students will be introduced to the history of SPC, the Deming philosophy, process variation, techniques including control charts and process improvement. (F, Sp)

QUAL 124 Quality Service/Customer Satis

Prerequisite: None

Students strengthen abilities to discover, design and deliver service to customers at levels representing high perceived quality and value and successful competitive positioning for business. Includes foundation concepts of quality, customer service, business operations and planning, customer and market segmentation, customer expectations, service delivery, service quality and business effectiveness evaluation. (F).

QUAL 135 Measure/Gage Geom Tolerances 3

Prerequisite: QUAL 115 1.0 minimum

Recommended: Knowledge and Prior Usage of Measuring Equipment

This course is designed to develop skills in people who inspect end products using geometric tolerances. Students are expected to already understand how to use and care for standard measuring equipment. Inspection methods for geometric symbols start with sample drawings, selection of appropriate equipment and stepby-step instructions for measuring the part. (Sp, Su)

QUAL 200 Quality Improvement Teams

Prerequisite: None

Covers problem-solving models and techniques for quality/productivity improvement and the human factor related to quality. Emphasis includes interpersonal and communication skills related to quality assurance. Students use problem-solving methods and techniques, learn team member roles, effective communication skills and prepare and present projects to the class. (F)

QUAL 203 Quality Systems Management

Prerequisite: 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	205-REAU	1	10
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QUAL 205 Cost of Quality 3	READ 101 Reading Clinic IIA 4
Prerequisite: None Recommended: Previous Course Work in Quality This course introduces the student to definition and philosophy related to the cal- culation of quality costs through typical accounting methods to common quality practices. Basic financial concepts, benefits and problems related to cost data col- lection and analysis, trend analysis, planning and reducing costs are included.	Prerequisite: Reading Level 1 and Writing Level 1 A four credit course designed to teach fundamental reading skills. Provides small group and one-to-one instruction to improve reading skills and confidence. For stu- dents whose reading skills range from pre-literate to basic literacy. (May repeat for credit three times.) (F, Sp, Su) READ 104 Reading Skills IA 4
(Sp)	Prerequisite: Reading Level 1 and Writing Level 1
QUAL 209 Reliability	A four credit course designed to teach fundamental reading skills. Provides small group and one-to-one instruction to improve reading skills and confidence. For students whose reading skills range from pre-literate to basic literacy. (May repeat for credit three times.) (F, Sp, Su)
	READ 105 Reading Skills IIA
QUAL 212 Applied Stats/Qual Assur 4 Prerequisite: QUAL 103 1.5 minimum 5 This course covers the topics of hypothesis testing, confidence intervals and sample size determination as applied to various distributions; such as the normal, student T, chi-squared and F Correlation and regression. (F)	Prerequisite: Reading Level 1 and Writing Level 1 A four credit course designed to teach fundamental reading skills. Provides small group and one-to-one instruction to improve reading skills and confidence. For stu- dents whose reading skills range from pre-literate to basic literacy. (May repeat for credit three times.) (F, Sp, Su)
QUAL 215 Experimental Design in QA 4	READ 108 Individualized Reading A 4
Prerequisite: QUAL 212 1.5 minimum This course covers the concepts of analysis of variance and experimental design. Topics include one and two way ANQVA, various graphical and numeri- cal tests for effects, determination and testing of residuals and the use of math- ematical models. (Sp)	Prerequisite: Reading Level 3 and Writing Level 2 A four credit course designed for average readers, especially adults in the work- ing community, who wish to improve their reading proficiency with one-to-one instruction and directed practice. Students concentrate on areas that need strengthening. (May repeat for credit three times.) (F, Sp, Su)
QUAL 224 Supervisory Skills for Quality 3	3
Prerequisite: None Recommended: Work Experience or Previous Quality Courses This course will help students to develop skills for supervising personnel in a pro- duction environment consistent with current quality engineering principles. Topics include customer focus, employee selection and development, task analysis equipment and resource utilization and continuous improvement of quality and productivity utilizing data and employee involvement. (F)	Prerequisite: Reading Level 3 and Writing Level 2 A three credit course designed for average readers, especially adults in the work- ing community who wish to improve their reading proficiency with one-to-one instruction and directed practice. Students concentrate on skill areas that need strengthening. (May repeat for credit three times.) (F, Sp, Su)
QUAL 239 Qual Plan/Project Management 4	READ 111 Heading: Essential Sublegrea
Prerequisite: None Recommended: Work Experience or Previous Quality Courses This course develops skills for planning quality processes, products and service, and managing projects. Development of quality control plans, FMEAs, QFD, Gantt charts and other tools for project management, and the planning and managing of projects are included. (Sp)	Prerequisite: Reading Level 3 and Writing Level 1 Designed to provide a transition from mastery of basic reading skills and individu- alized 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)
QUAL 242 Quality Auditing 3	READ 114 Reading Skills 4
Prerequisite: None Recommended: Understanding of ISO9000 or OS9000 This course is designed to develop quality auditing skills starting with required quality standards to plan quality audits, evaluate quality system documentation and practices and write audit reports. (F, Sp)	Prerequisite: Reading Level 3 and Writing Level 2 Designed to increase basic comprehension skilts, build vocabulary, and prepare students for college-level reading through the exploration of effective study techniques. (F, Sp, Su)
QUAL 251 Current Qual Assur Topics	READ 116 Reading Comprehension 4
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)	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)
QUAL 252 Current QA Topics II 2	READ 165 Critical Reading 2
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)	Prerequisite: 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 develop- mental pattern in written material and to judge rationally what he or she reads. (F, Sp, Su)
READ - READING	READ 175 Speed Reading - Adv Vocabulary 2
Burger HU Datamater Barger B	Broroguiette: Reading Level 5 and Writing Level 4
READ 100 Reading Clinic IA 4 Prerequisite: Reading Level 1 and Writing Level 1 A four credit course designed to teach fundamental reading skills. Provides small group and one-to-one instruction to improve reading skills and confidence. For stu- dents whose reading skills range from pre-literate to basic literacy. (May repeat for credit three times.) (F, Sp, Su)	Designed for the student of an average or better-than-average reading admity. Increases reading rate and comprehension for greater efficiency in studying and in general reading. Special attention is given to vocabulary improvement, the mul- tiple purposes of reading, the importance of flexibility in reading, and increased concentration. (F, Sp, Su)
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REAL 271-SDEV 123

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REAL - REAL ESTATE 2 **REAL 271** Introduction to Real Estate Prerequisite: 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

Prerequisite: None

Recommended: REAL 271 or REAL 274

Emphasis on investment analysis, financing, depreciation, capital gains, exchanging, and federal tax implications of real estate acquisitions, ownership, and disposal. (Sp)

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

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	-3
	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)

REAL 280 Real Estate Law

Prerequisite: None

Recommended: REAL 271 or REAL 274

Topics covered include: land and its elements, land titles, land interests, 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 - RELIGION

RELG 211 World Religions I

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)

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RELG 241 Old Testament Literature

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

This course surveys the content of Judaism's Bible (Christianity's Old Testament) in its original Hebrew cultural and religious context, using some of the insights of modern critical scholarship. The origins and early development of the Hebrews and their religious beliefs and practices are examined. (F)

RELG 242 New Testament Literature

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

This course surveys the content of Christianity's New Testament in its original Hebraic and Greco-Roman context, using some of the insights of modern critical scholarship. The 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 Internship in Science Technolo

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 297 Independent Study in Science

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Prerequisite: Department Approval Special study in science topics such as geology, astronomy, physiology, chemistry, physics, ecology, zoology, or other natural sciences. The topic is chosen by the student, and the project is supervised by a member of the Science Department. Students meet with a supervising instructor by arrangement. (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

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)

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SDEV 124-SDEV 205

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SDEV 124 Techniques of Study

Prereguisite: 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

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 lifegiving behaviors. (F, Sp, Su)

SDEV 128 Career Research

Prerequisite: None

This accelerated course is designed for students who have already identified career options. The emphasis in this course is research of these options through self-assessment, participation in classroom discussion and the development of a plan of action. (F. Sp. Su)

SDEV 130	Job Search Skills	1	I

Prerequisite: None

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 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 145 Organizing Time

Prerequisite: None

The most effective and efficient use of time is learned through structured discussions, audiovisuals, written exercises, and readings dealing with goal-setting, getting organized, time and work analysis, procrastination, and other barriers to successful time and task management. (F, Sp, Su)

SDEV 150 Divorce Adjustment

Prereguisite: None

This course is designed for those who are experiencing or who have recently completed a divorce. The student-centered atmosphere is supportive and geared toward coping with and finding constructive alternatives to the emotional crisis of divorce. (F, Sp)

SDEV 151 Divorce: Problem and Solutions

Prerequisite: None

This course provides an introduction to strength-based solutions in resolving problems with divorce and separation. Topics include: Circuit, Probate and Family Courts; general knowledge of the family law system; resources available to families, and best strategies for positive family outcomes when parents live apart. This is not a law course. (F, Sp, Su)

SDEV 153 Men's Discussion Group

Prerequisite: None

This course will explore the male mode of relating in relationships. The impact of societal cultural expectations of men will be examined and how these expectations affect men's work, communication with one another, and their families. (F, Sp, Su)

SDEV 156 I'm OK/You're OK

Prerequisite: None

This course shows the basic concepts related to transactional analysis and how these concepts can enrich our lives. Within each of us is a child, an adult, and a parent reacting to the world around us. Increased personal awareness about ourselves can help us to be more effective. (F, Sp, Su)

SDEV 157 Single Parenting

Prereguisite: 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

Prerequisite: 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 171 Rational Living

Prerequisite: None

Using the teachings of Rational Emotive Training, a variety of approaches will be used to provide students with insight into the sources of problems. Techniques are offered to avoid frustration when the world is not the way it "should" be and for overcoming difficult situations at school, home, and on the job. (F, Sp)

SDEV 173 Breaking the Codependency Trap

Prerequisite: None

Students will learn that codependency is an unhealthy way of relating to oneself and others. New techniques will be learned so that healthier relational choice can be made. Emphasis will be on the conviction that each person can grow and heat, and engage in conscious, committed, cooperative relationships. (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 failure. (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)

SDEV 195 Building Healthy Relationships

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 202 Learn a New Way to Think

Prerequisite: None

Sessions are designed to break traditional mind patterns to assist the change process. Students study a variety of thinking strategies and learn new creative thinking techniques. These include imagination, motivation, humor, forced relationships, visualization, and fantasy. This course is general in approach and not specific to any one academic discipline. (F, Sp)

SDEV 204 Self-Defense and Women I

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 attackers, and special assaultive situations. (F. Sp. Su)

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SDEV 225 Parenting in the Millennium 2	SIGN 166 Fingerspelling 2
	Prerequisite: None
Prerequisite: None This course will help parents move from "unconscious" to "conscious" parenting,	Recommended: SIGN 162 2.0 minimum or Concurrently
this course will help parental domination to a relationship-centered model.	Provides the student with concentrated instruction and practice in both expressive
The influence of childhood on parenting style, impact of communication in child-	and receptive fingerspelling skills. (F, Sp, Su)
earing, and understanding the power of the child/parent ralationship are included.	
F, Sp)	SIGN 167 Beginning Sign to Voice 3
	Prerequisite: None
SDEV 237 Black Women's Awareness 1	Recommended: SIGN 162 2.0 minimum
rerequisite: None	Designed to increase the student's receptive skills in conversational sign language
This class is an exploration of concerns and issues confronting the Black woman	focusing on comprehension of the various manual communication systems utilized
n America today. Students will have the opportunity to share their viewpoints and ife experiences in response to such questions as: Who is the African-American	by deaf persons. Sign-to-voice techniques and practice will be introduced through
woman? What are her needs? How can those needs be met? (F, Sp)	use of prepared videotapes. (F, Su)
	SIGN 158 Expressive Manual Commun 2
SDEV 240 Empathy Training 2	Prerequisite: SIGN 162 2.0 minimum
Prerequisite: None	This course focuses on synthesizing grammatical elements of American Sign
The student will learn how to use empathy as a technique to deal with emotions,	Language and using them in an expressive mode. It creates awareness of con-
values, and decision making in the communication process. The skills will be	versational behaviors used by the deaf community and provides practice of those
aught in a small group emphasizing a supportive, experiential atmosphere. (F, Sp, Su)	behaviors in classroom and other settings. (Su)
, 5 5 , 5 5 ,	SIGN 170 Creative Arts Signing 2
SDEV 245 Dealing with Stress 1	
Prerequisite: None	Prerequisite: SIGN 162 2.0 minimum This class explores uses, considerations, and techniques for signing elements of
This course is designed to promote awareness of how stress affects mental, emo-	the creative arts including poetry, storytelling, and song. (Su)
tionel and physical health, and behavior. The goal is to help participants to achieve lifetime coping skills. Topics include personal stressors, mental and physical cop-	
ing strategies, dietary influences, communication, job or role stress, and coping	SIGN 176 Advanced Fingerspelling 2
with loss. (F, Sp, Su)	Prerequisite: SIGN 166 2.0 minimum Provides the student with advanced concentrated instruction and practice in both
SDEV 271 Living Alone Creatively 1	expressive and receptive fingerspelling skills. (F, Sp, Su)
	expressive and receptive inighterining choice (1, ep, ed)
Prerequisite: None Designed for both single men and single women, this course will focus on creative	SIGN 250 Deaf Culture and History 3
and positive aspects of living alone (or with others). Information will be shared to	Prereguísite: SIGN 163 2.0 minimum
increase self-awareness, develop skills, and create a support system to further the	This course looks closely at the unique experiences of those in the deaf commu-
goal of living alone creatively. (F, Su)	nity. Examines the history of the deaf community in America and the sociology of
	the hearing-impaired (both deaf and the hard-of-hearing). (Sp)
SIGN - SIGN LANGUAGE	SIGN 260 Linguistic Principles of ASL 3
	Prerequisite: SIGN 163 2.0 minimum
SIGN 150 Orientation to Deafness 2	An overview of the linguistic organization of ASL, including a linguistic perspective
Prerequisite: Reading Level 3 and Writing Level 4	on how ASL is learned and how it is (and is not) influenced by English.
This course is designed to introduce the student to pathological and cultural per-	Topics relevant to interpreting, such as language variation and translation, will be
spectives on deafness and the implications those perspectives have for persons who are deaf. Topics will be explored through discussions, readings, audiovisual	emphasized. (F)
presentations, and guest lecturers. (F, Sp, Su)	SIGN 261 Principles of Interpreting
SIGN 161 American Sign Language I 3	Prerequisite: ITP Screening Surveys basic interpreting through lecture, role-playing, and classroom discus
Prerequisite: None	sion. Introduces the ethics of interpreting, roles, and responsibilities of the inter
Recommended: SIGN 160 2.0 minimum or Concurrently	preter. Examines the role and necessary skills of the interpreter in various
Designed for students who wish to develop basic knowledge of American Sign	settings: educational, mantal health, vocational rehabilitation, legal, religious
Language vocabulary and grammar. There is also emphasis in the use of pan-	phone, television, medical, deaf, blind, and minimal language skills. (F)
tomime to explore nonverbal communication and its function within ASL.	
(F, Sp, Su)	SIGN 262 Mock Quality Assurance (QA)
SIGN 162 American Sign Language II 3	Prerequisite: SIGN 261 2.5 minimum
Prereguisite: None	This course is designed to provide students with simulated testing interpreter/transliterating settings using interactive videotapes of hearing and
Recommended: SIGN 161 2.0 minimum	deaf individuals with the purpose of developing skills necessary for interprete
Designed to increase students' knowledge and use of American Sign Language	evaluation. (Su)
vocabulary and grammar, as well as to focus on specific grammatical elements for	
more in-depth analysis and practice. (F, Sp, Su)	SIGN 263 Intermediate Sign to Voice
SIGN 163 American Sign Language III 3	Prerequisite: SIGN 164 2.5 minimum
Prerequisite: None	This course is designed to develop and refine necessary basic skills and fluence
Recommended: SIGN 162 2.0 minimum	in receptive sign language and for voicing all levels of communication of deaf ind
Designed to provide additional vocabulary and synthesis of grammatical elements	viduals. Techniquas taught include interpreter task analysis, listening, attending internal message formulation, vocabulary search, and monitoring output. (Sp)
of American Sign Language through expressive and receptive use of conversa-	inema message ionitation, vocability search, and monitoring output (by
tional sign language. (F, Sp, Su)	SIGN 264 Advanced Sign to Voice

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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. (F)

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Prerequisite: SIGN 263 2.5 minimum

This course is an advanced class in 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. (F)

	SIGN 265-SPAN 201
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SIGN 265 Adv Interpreting/Transliterat 3	SOCL 295 Independent Study in Sociology 1-4
Prerequisite: SIGN 262 2.5 minimum This course is designed to continue the development of skills necessary for inter- preter evaluation/qualification. Students will be provided with simulated testing sit- uations using interactive videotapes of hearing/deaf individuals requiring students to interpret/transliterate. (F)	Prerequisite: Department Approval Independent project involving research, reading, and experience in sociology and/or anthropology. The project, chosen by the student, must be approved by the department chair and be supervised by a faculty member. The project must mee specific academic goals. (F, Sp, Su)
SIGN 267 Sign Internship I 3	
Prerequisite: SIGN 261 2.5 minimum	SOWK - SOCIAL WORK
Combines student transliterated lectures and supervised placement in various interpreting settings to allow directed observation and application of practical inter-	SOWK 101 Introduction to Social Work
preting skills. Students will spend a total of 32 clock hours in their placement setting. (Sp)	Prerequisite: Reading Level 5 and Writing Level 4 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
SIGN 268 Sign Internship II 3	social issues and client needs relative to social work practice. (F, Sp, Su)
Prerequisite: SIGN 267 2.5 minimum Combines student interpreted lectures and supervised placement in various inter-	SOWK 203 Social Work Interviewing
preting settings to allow directed observation and application of practical inter- preting skills. Students will spend a total of 32 clock hours in their placement setting, (Su)	Prerequisite: HUSE 100 2.5 minimum or SOWK 101 2.0 minimum This course examines the purposes and basic concepts of the interview relation ship with emphasis on the helping interview. It provides instruction in the tech hiques of interviewing with an opportunity to engage in practice interviews
SIGN 295 Indepen Study/Sign Language 1-3	including videotaping and feedback. (F, Sp)
Prerequisite: None Recommended: SIGN 261 2.0 minimum	SOWK 205 Social Welfare
Individual projects in sign language or interpreting. Students will spend at least two hours a week for each credit in independent study. (F, Sp, Su)	Prerequisite: SOWK 101 2.0 minimum or HUSE 100 2.5 minimum This course introduces the definition and concept of social welfare, its history, pro- grams, 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
SOCL - SOCIOLOGY	welfare policy. (Sp)
SOCL 120 Introduction to Sociology 4	
Prerequisite: Reading Level 5	SPAN - SPANISH
A survey of major theoretical perspectives, concepts, and methods of sociology.	SDAN 145 Conversional Convict i
Emphasis is given to societal origins, evolution, and organization; culture; social- ization; stratification; social institutions; and social change. (F, Sp, Su)	SPAN 115 Conversational Spanish 1 3
	Prerequisite: None First course of a two-semester sequence in conversational Spanish. Designed to
SOCL 185 Intro to African-American Stdy 3	persons who have no knowledge of Spanish and who wish to develop basic con-

SOCL 18

Prerequisite: Reading Level 5 and Writing Level 6

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 196 Japan Adventure Orientation

Prerequisite: None

This course is designed specifically for the Japan Adventure participants in order to offer them information on the background, nature, activities, and related rules and regulations of the Japan Adventure Program. (Sp)

SOCL 254 Marriage and Family

Prerequisite: (SOCL 120 1.0 minimum or PSYC 200 1.0 minimum) and

Reading Level 5 and Writing Level 6 A study of the changes in society over the past century in terms of their dramatic impact on sexual relationships, marriage, and family life. Topics will include sex and gender roles, sexual behavior, values, psychological needs, divorce, and parenting. (F, Sp)

SOCL 255 Contemporary Social Problems

Prerequisite: SOCL 120 1.0 minimum and Reading Level 5 and Writing Level 6 Consideration of current social problems, such as family stability, environmental decline, educational decline, health care, public and private indebtedness, racism, poverty, crime, and/or urbanization, from a framework of sociological theory and recent empirical studies. (F, Sp)

SOCL 260 Minority Groups

Prerequisite: SOCL 120 1.0 minimum and Reading Level 5 and Writing Level 6 An introduction to the culture and contemporary life styles of American minorities. Emphasis is placed on basic sociological and anthropological concepts with respect to selected minority groups, particularly the African American, Mexican American, Native American, and Asian American. (F, Sp)

SPAN 121 Elementary Spanish I

Prereguisite: 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 listening 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

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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 tanguage. Emphasizes practice in listening comprehension, speaking, reading, and writing, Provides useful information about the Spanish-speaking world. Class taught largely in Spanish. (Sp)

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 intermediate review of grammar, intensive vocabulary building, listening comprehension, and writing compositions. Encourages conversation by introducing discussions about the cultures of the Spanish-speaking world. Class taught entirely in Spanish, (F)

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versational skills in the language. Course emphasizes pronunciation of Spanish sounds, practical vocabulary, culture, and essential grammar for communication.

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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 cultures, and essential grammar for communication. Class taught largely in Spanish. (F, Sp, Su)

Class taught largely in Spanish. (F, Sp, Su)

SPAN 116 Conversational Spanish II Prerequisite: None

Recommended: SPAN 115 or Equivalent

SPAN 202-STEC 140

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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 an intermediate 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, orienting employees, 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 4

Helps beginning speakers develop the skills and confidence needed to speak effectively to audiences in public situations. Through a carefully planned series of speaking assignments, students learn the proper techniques for researching, developing, organizing, outlining, and delivering effective informative and persuasive speeches. (F, Sp, Su)

SPCH 140 Interpersonal Communication

Prerequisite: None

Introduction to fundamental principles and skills of interpersonal communication. Students investigate techniques for interacting effectively in family, intercultural, and mate/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. (Sp)

SPCH 295 Independent Study in Speech

Prerequisite: Department Approval

Individual projects in speech communication. Students will spend at least two hours a week for each credit in independent study. (F, Sp, Su)

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SPECISPELLING 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)

SPEL 165 Business Spelling

reading, and correct usage. (F, Sp)

Prerequisite: Reading Level 3 and Writing Level 2 Covers sophisticated and specialized college-level words frequently misspelled and misused in business. Includes general spelling principles and their exceptions, unusual and unexpected spellings in the context of dictation, prounciation, proof-

STAT STATISTICS

STAT 170 Introduction to Statistics

Prerequisite: (MATH 121 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 130 2.0 minimum or MATH 141 2.0 minimum) 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, Su)

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)

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STEC 120 Stage Lighting and Electricity

Prerequisite: 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 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)

SURG 100-THEA 141

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SURG - SURGICAL TECHNOLOGY

SURG 100 Fundamental Surgical Tech

Prerequisite: Admission to Surgical Technology Program Co-requisite Courses: 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 Courses: 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: ANAT 145 2.5 minimum 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. The process of wound healing is discussed. (F)

SURG 104 Operative Procedures

Prerequisite: AHCC 106 2.5 minimum and AHCC 110 2.5 minimum and 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 Courses: 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 Courses: SURG 100 and SURG 101

First clinical session at an assigned hospital. Application of theory in the use of surgical supplies and equipment before scrubbing in actual procedures. (F)

SURG 122 Applied Surg Techniques II

Prerequisite: SURG 121 2.5 minimum or Concurrently Co-requisite Courses: SURG 100 and SURG 101 Clinical session at hospital. Students' first experience of 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 Courses: SURG 104 Clinical session at hospital. 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: SURG 104

Clinical session at hospital. Application of theory and clinical skills in advanced surgical procedures and surgical specialty areas. (Sp)

TOTE 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 prepare the student to pass the State of Michigan CDL written exam, review D.O.T. rules and proper driver's log book reporting. Some vehicle orientation is included. (F, Sp, Su)

TDTP 111 Truck Driver Training II

Prerequisite: Department Approval and Department of Transporation 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. (F, Sp, Su)

TDTP 112 Truck Driver Training III

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Prerequisite: Department Approval and Department of Transporation 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)

TECH TECHNOLOGY GENERAL

TECH 164 Boat Building

Prereguisite: None The students learn to build a boat with materials and processes using wood and modern adhesives and coatings in a manner suitable for work in a small shop. Subjects covered include boat design, alternate construction methods, materials required, and laying out the hull. (F, Sp, Su)

THEA THEATER

THEA 091 Stdy Per Ws: Ply Per HS Stdnts

Prereguisite: None

Students will perform an entire production of a chosen script. Focus in the workshop will be on basic acting skills, script analysis, script scoring, rehearsal techniques and strategies, and production skills. (Su)

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 reletionship between theatre and the culture from which it comes, and the roles of theatre practitioners. (F, Sp, Su)

THEA 111 Basic Stagecraft

Prerequisite: Department Approval Recommended: Knowledge of Basic Math and Measurement

Introduction to the techniques of stage craft for the performing arts: the basic fundamentals involved in tool usage and safety, stage lighting, lighting plot interpretation, and understanding of the organization of backstage production. (F, Sp, Su)

THEA 116 Scene Design I

Prerequisite: THEA 111 2.0 minimum or Concurrently

Introduction to the elements of design end how they relate to performance. Introduction to color theory as it relates to paint, light, and fabric. Techniques of rendering, translation of a picture to three-dimensionality, spatial relationships, and development of a design concept also covered. (Sp)

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 Courses: 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 Courses: THEA 142 and THEA 172 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 141 Acting I - Contemporary

Prerequisite: Theatre Studio Interview

Restriction: Theatre Majors

Co-requisite Courses: 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, Sp)

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THEA 142 Acting II - Classics 2.5	THEA 237 Theatre Special Projects 1
Prerequisite: THEA 141 2.0 minimum	Prerequisite: Department Approval
Restriction: Theatre Majors	Student will be given the opportunity to direct, design, perform, or produce pro
Co-requisite Courses: THEA 132 and THEA 172	ductions for College functions on the main stage or comparable space. Limited to
undamentals of acting in heightened context. Students will pursue improvisa-	individuals who have been selected as cast members or technical or design staf
onal work, mask work, and scoring. Students will develop an understanding of the	in a scheduled LCC performance. (F)
ower of language through verse scansion and the physical, vocal, and internal levelopment of characters from classical literature. Majors only. (Sp, Su)	THEA 238 Theatre Company
	Prerequisite: Theatre Application Process
HEA 171 Dramatic Form and Function I 3	Students will be given the opportunity to direct, design, produce, or perform in
rerequisite: Theatre Studio Interview	College-supported outdoor theatrical events in the amphitheatre or a comparable
lestriction: Theatre Majors	space. Students will also participate in company class, in which new ideas in act
Co-requisite Courses: THEA 131 and THEA 141 In analysis of modern contemporary classics of the theatre. The student will read	ing training will be presented. (Su)
nd analyze a minimum of eight contemporary scripts from lbsen to Shepard. The	THEA 241 Acting III: Creating Theatre 2.5
tudent will develop a comprehensive production concept for one of these scripts.	Prereguisite: THEA 142 2.0 minimum
F, Sp)	Restriction: Theatre Majors
HEA 172 Dramatic Form and Function II 3	Co-requisite Courses: THEA 235 and THEA 271 and THEA 281
Prerequisite: THEA 171 2.0 minimum	Explores acting techniques and styles of different historical periods and/or cul tures. Student will survey a cross-section of acting styles and periods then focus
Restriction: Theatre Majors	on in-depth exploration of particular period or style. Class limited to second-year
Co-requisite Courses: THEA 132 and THEA 142	majors. In-depth area of study selected by instructor, (Sp)
Dramatic Form and Function II focuses on the writings of Shakespeare and the	THEA 354 - Change Vision down the Article
slassical Greeks. The student will read a minimum of eight classical scripts, ana- yze them using Aristotelian analysis, and research one script in terms of produc-	THEA 251 Stage Voice for the Actor
ion styles through history. (Sp. Su)	Prerequisite: THEA 142 2.0 minimum Restriction: Theatre Majors
	Co-requisite Courses: THEA 181 and THEA 233 and THEA 261
HEA 181 Improvisation 2.5	Course will cover strategies in vocal production and variety; will focus on exercises
Prerequisite: THEA 142 2.0 minimum	to develop vocal flexibility from Lessac, Linklater, and/or Berry techniques; and will
lestriction: Theatre Majors	experience vocal techniques which lead to greater emotional awareness and
by using the improvisational techniques of mask work and developmental	responsiveness. For second-year theater majors. (F)
xercises, this course will train the student in long-term, in-depth character	THEA 261 Movement for the Actor
levelopment. (F)	Prerequisite: THEA:142 2.0 minimum
HEA 210 Theatre History 4	Restriction: Theatre Majors
Prerequisite: Reading Level 5 and Writing Level 6	Co-requisite Courses: THEA 181 and THEA 233 and THEA 251 Course will cover strategies developing student's physical endurance, reflect, flexi-
Recommended: THEA 110	bility, and grace. Students will learn the human inner experience in the sphere of
examination of the history of drama from primitive times to the present, introduc-	human silence. Students may explore movement to music, mime, and/or dance
ng the overall pattern of theatre history with emphasis on European and American levelopment, Required for all majors, (F)	styles and techniques from world cultures. For second-year theatre majors. (F)
evolopment, hequired for all majors. (F)	THEA 271 Dramatic Form and Function III
HEA 223 Directed Study 1-3	Prerequisite: THEA 172 2.0 minimum
rerequisite: Department Approval	Restriction: Theatre Majors
Course for advanced students working under the guidance of faculty on special	Co-requisite Courses: THEA 235 and THEA 241 and THEA 281
rojects outside the scope of standard classroom instruction. (F, Sp, Su)	Student will study a particular topic through different theatrical forms, plays, and historical periods. The class culminates in each student's selection of a topic and
'HEA 224 Special Subjects in Theatre 1-4	completion of research into the theatrical response to that topic. For second-year
Prerequisite: Department Approval	theater majors. (Sp)
eminar: Special Subjects in Theater is offered each summer and allows students	THEA 281 Advanced Improvisation II
> take a variety of short-term courses in various theater techniques. The seminar /ill offer either state-of-the-art techniques or an opportunity to work with pro-	•
essionals. Seminars may include: stage combat, playwriting, new techniques in	Prerequisite: THEA 181 2.0 minimum Restriction: Theatre Majors
cting. (Su)	Co-requisite Courses: THEA 235 and THEA 241 and THEA 271
	Students will edit and polish scripts and performances. Students may also work
HEA 233 Studio Theatre Performance III 1	improvisationally with local student groups to develop spontaneity, creativity, and cooperation. (Sp)
Prerequisite: THEA 132 2.0 minimum Restriction: Theatre Majors	cooperation. (op)
Co-requisite Courses: THEA 181 and THEA 251 and THEA 261	THEA 283 Audition Workshop 1
Studio Theatre Performance III provides rehearsal and performance opportunities	Prerequisite: THEA 142 2.0 minimum
n oral interpretation and/or readers theatre presentations. Usually offered in eight-	Restriction: Theatre Majors
reek format. Second-year theatre majors only. (F)	An intense workshop in which participants prepare and polish audition materials suited for a professional audition or audition for advance training. Course usually
HEA 234 Studio Theatre Performance IV 1	taught by guest actors, agents, or teachers from larger theatrical or film markets.
Prerequisite: Studio Theatre Performance 4 Audition	(Sp)
tudio Theatre Performance IV provides rehearsal and performance opportunities	
uring a four-week format on an outdoor stage. Students will develop one charac-	THEA 285 Stage Makeup 2
er and work on physical and vocal projection for large spaces. Limited to individ- als who have been selected as cast members in Turner House Festival	Prerequisite: None A course in the application of stage makeup to develop a character and to assist
roductions. (Su)	the actor in sustaining the character in performance. Emphasizes skills in the use
	of different kinds of makeup, hairstyling, and appearance changes. (Sp)
NEA 235 Studio Theatre Performance V 2	THEA 295 Acting Styles I 2
rerequisite: THEA 233 2.0 minimum estriction: Theatre Majors	
e-requisite Courses: THEA 241 and THEA 271 and THEA 281	Prerequisite: Theatre Acting Styles Audition An elective course for advanced students, this course will give the student an
tudio Theatre Performance V provides the second-year theatre major an oppor-	opportunity to explore theatrical styles from musical theater to the Greeks. Style is
unity to explore a specific theatrical period or style in both rehearsal and perfor-	selected by instructor previous to given semester. Usually offered in eight-week
hance. (F, Sp)	format. (F)

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THEA 296-VCBL 160

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THEA 296 Acting Styles Performance 2	TRVL 190 Internship and Seminar 3
Prerequisite: Theatre Acting Styles Performance Audition Students choose to rehearse and perform an in-class presentation of skills devel- oped in THEA 295. Usually offered in eight-week format. (Sp)	Prerequisite: HMFS 101 2.0 minimum Recommended: Minimum 2.0 in TRVL 100 or TRVL 135 or or TRVL 210 Available to students who have completed or are approaching 200 hours of work experience in tourism or travel agency operations. A term project is required. (Sp, Su)
TRVL - TRAVEL AND TOURISM	TRVL 200 Sales/Mktg for Travel/Tourism 3
TRVL 100 Travel Agency Operations 3	Prerequisite: None
Prerequisite: Reading Level 3 Gain a working knowledge of the reference materials used in the travel industry, as well as industry terminology and overall travel agency operations. (F, Sp, Su)	Recommended: HMFS 101 2.0 minimum Understand marketing strategies by identifying client needs, product, price, and promotion. Develop professional sales skills, as well as examine and develop advertising pieces. (F, Sp)
TRVL 125 Destinations 1 3	TRVL 210 Group Travel/Escorting Ops 4
Prerequisite: None Examine geography fundamentals as they affect tourism. Emphasis is on travel destinations in North, Central, and South Americas with specific information relative to client appeal. (F, Sp) TRVL 130 Destinations II 3	Prerequisite: None Recommended: Minimum 2.0 in HMFS 101 and TRVL 145 Learn how to organize and escort both domestic and international group tours. Includes procedures for locating the group, assembling and marketing the tour package, and effectively conducting the tour. (F, Sp)
Prerequisite: None Examine geography fundamentals as they affect tourism. Emphasis is on travel	TRVL 230 Travel/Tourism Law 3
destinations in Europe, Africa, and the Middle East with specific information rela- tive to client appeal. (F, Sp) TRVL 131 Destinations III 3	Prerequisite: HMFS 101 2.0 minimum Recommended: Minimum 2.0 in TRVL 100 or TRVL 135 or TRVL 210 Become aware of the responsibilities and rights which the law imposes on the
Prerequisite: None Examine geography fundamentals as they affect tourism. Emphasis is on travel destinations in Asia and the Far East (including the Philippines, Japan, Australia,	travel industry, includes current topics and pending laws and discussion of the consequences that result in violating the law for different segments of industry. (F, Sp)
New Zealand and Oceana) relative to client appeal. (F, Sp)	TRVL 250 Airline Comptr Reservation II 3
TRVL 135 Airline/Airport Operations 3 Prerequisite: None introduction to the responsibilities of airline and airport personnel, as well as the functions of an airport and airline carriers. Discussion includes ticket counter oper-	Prerequisite: TRVL 140 2.0 minimum The second of a three course series utilizing the SABRE system which progresses to in-depth fare research and application, as well as fare rules, and hotel/car reser- vations for domestic and international travel. (F, Sp)
ations, the gate area, cargo handling and loading, aircraft weight, and the principles of aeronautics. (F)	TRVL 260 Travel Agency Accounting 2
TRVL 140 Airline Computer Reservation 1 3 Prerequisite: None Recommended: TRVL 100 and Typing 30 wpm The first of a three-course sequence utilizing the American Airlines SABRE reservation system. 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, Su)	Prerequisite: None Recommended: TRVL 100 2.0 minimum A course designed to explain and describe basic travel agency accounting con- cepts. Approximately one-half of the course will be dedicated to the compilation and interpretation of financial statements. The other half of the course will discuss how accounting systems should be constructed for the travel agency business. (F, Su)
	TRVL 265 Fundamentals of Bus Travel 3
TRVL 145 intro Cruise Sales/Ground Tran 3 Prerequisite: None An exposure to, and understanding of, the reference materials used to sell cruises, railroads, car rentals, and motor coach travel for domestic and international destinations. (Sp) TRVL 146 Seminar at Sea 2 Prerequisite: None An exciting opportunity to explore cruising first hand. Included in the cruise are	Prerequisite: TRVL 250 2.0 minimum Recommended: Minimum 2.0 in HMFS 101 and TRVL 145 and TRVL 210 and TRVL 230 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 busi- ness/corporate travelers, as well as the customs, cultures, and protocol in International travel are emphasized. In addition, extended use of the Sabre com- puter reservation system is utilized. (F, Sp)
ship tours, cruise activities, shore excursions, and inspections of pier/dock facilities. (F)	VCBL - VOCABULARY IMPROVEMENT
TRVL 170 Owning/Managing Trvi Agency 3	VCBL 150 Vocabulary: College Prep 1
Prereguisite: None Recommended: 2.0 minimum in TRVL 100 and TRVL 140 Learn how to open or acquire a travel agency. Includes an examination of co-ops, consortiums, and franchise options, as well as an overview for managing daily operations. (F)	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)
TRVL 180 Flight Attendant 3	VCBL 160 Vocab/Spelling: College Prep 2
Prerequisite: None Recommended: TRVL 135 2.0 minimum	Prerequisite: Reading Level 3 and Writing Level 4 Recommended: PHON 108

A career as a flight attendant is examined including the duties and responsibilities

surrounding passenger service, crew scheduling, aircraft equipment, and the air-

line interview process. (Sp)

Focuses on advanced skills as follows: pronunciation, spelling, and usage of words with the intended goal of mastery which will assure a college or professional vocabulary level. (F, Sp)

WELD 100-WRIT 119

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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)

WRIT-WRITING

WRIT 101 Writing Laboratory I

Prerequisite: Reading Level 1 and Writing Level 1 and Department Approval One-credit course designed to teach fundamental writing skills and improve confidence. Provides small-group and one-to-one instruction. Department approval required. (May repeat for credit three times.) (F, Sp, Su)

WRIT 102 Writing Laboratory II

Prerequisite: Reading Level 1 and Writing Level 1 and Department Approval Two-credit courses designed to teach fundamental writing skills and improve confidence. Provides small-group and one-to-one instruction, Department approval required. (May repeat for credit three times.) (F, Sp, Su)

WRIT 103 Writing Laboratory III

Prerequisite: Reading Level 1 and Writing Level 1

Three-credit course designed to teach fundamental writing skills and improve confidence. Provides small-group and one-to-one instruction, (May repeat for. credit three times.) (F, Sp, Su)

WRIT 104 Writing Laboratory IV

Prerequisite: Reading Level 1 and Writing Level 1

Four-credit course designed to teach fundamental writing skills and improve confidence. Provides small-group and one-to-one instruction. (May repeat for credit three times.) (F, Sp, Su)

WRIT 110 Confidence in Writing

Prerequisite: Reading Level 3 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. There will be special emphasis on usage of 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 business communication. (F, Sp, Su)

WRIT 117 Writing Preparation II

Prerequisite: Reading Level 3 and Writing Level 4

Recommended: Minimal Typing Skills Desirable

Designed 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)

WRIT 118 Personal Writing

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 life experiences are the focus 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)

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 steel 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 basic programming of an automated robot cell. (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 thicknesses 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)

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 130 Bridge Building Past/Present

Prerequisite: Reading Level 5 and Writing Level 4 and Math Level 4 An introduction to the design, fabrication and history of truss bridges. Students learn methods of historic bridge construction that are also relevant to modern industry. This course surveys the history of technology and engineering related to metal truss bridges with a steel bridge contest as a capstone project, (F)

WELD 191 Weiding Project Lab

Prerequisite: Department Approval

An opportunity for students to expand upon welding skills in maintenance welding, production welding, resistance welding and/or tool and die welding, depending on the direction the student would like to take his/her welding skills. Actual projects must be discussed end agreed upon by both the instructor and the student. (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)

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WRIT 121-WRIT 295

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WRIT 121 Composition

Prerequisite: Reading Level 5 and Writing Level 6 The study and practice of expository and argumentative discourse to help students write more effectively. Emphasizes writing process, critical thinking, content development, organization, and style. Students will select their best work for their portfolio, which will be externally assessed. Some sections use computers. Others are offered over Internet or interactive television. (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 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, 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 tormats 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. (F, 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 128 Business Report Writing

Prerequisite: Reading Level 5 and Writing Level 6 This course defines the wide range of reports required in the business world. It emphasizes conducting research, using primary and secondary sources and writing both informal and formal business reports and proposals. An oral presentation is also required. (F. Sp)

WRIT 131 Honors Composition I

Prerequisite: Reading Level 5 and Writing Level 7

The study and practice of expository and argumentative discourse to help students write more effectively. Emphasizes writing process, critical thinking, content development, organization, and style. Students will select their best work for their portfolio, which will be externally assessed. Some sections use computers. Others are offered over Internet or interactive television. (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 195 Writing User Documentation

Prereguisite: None

Designed for data processing students and professionals. Teaches students tu write effective documentation for users of computer systems. Focuses on writing step-by-step procedures explaining the responsibilities and activities of users. Emphasizes the clear, precise communication necessary for successful system operation and smooth work flow. (F, Sp)

WRIT 250 Issues in Teaching Writing

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 8)

The study and application of current scholarship relevant to philosophy and practice of a college writing center. Emphasizes study of writing process, composition theory and its application in the writing center, daily practices in writing center work, and development of skills necessary to provide effective writing assistance. (Sp)

WRIT 262 Prose Style

Prerequisite: None 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

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types of writing, and of the relationships among purpose, structure, words, sen-

Prerequisite: None

Develops criteria for evaluating the visual and performing arts, music, and literature. Sharpens the student's skills as a reviewer of the arts through reading, writing, and viewing mass media presentations, exhibits, and performances on- and off-campus. Concepts of form, content, style, and medium of expression will be introduced. (Sp)

WRIT 261 Writing for Publication

Recommended: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum Study of freelance writing and marketing, with focus on nonfliction. 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)

WRIT 262 Forum for Authors

An advanced course in freelance writing for authors working on manuscripts. Students meet in a workshop setting to refine ideas, critique writing, solve probtems, and develop material for submission to periodical or book editors. Includes advanced study of effective writing techniques and market information. Occasional speakers. Word processing available. (Sp)

WRIT 285 Creative Writing 1

WRIT 285 is designed to help students develop expressive abilities in writing poetry and short stories. Emphasizes narrative modes of the short story, traditional meter, and free verse forms of poetry. Includes models from students and masters in both fiction and poetry. (F. Sp)

WRIT 286 Creative Writing II

Prerequisite: WRIT 281 2.0 minimum or WRIT 285 2.0 minimum 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)

WRIT 287 Writing Workshop

Prerequisite: 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 295 Independent Study in Writ

Prerequisite: Department Approval

Individual projects in writing or journalism. Students will spend at least two nours a week for each credit in independent study. (F, Sp, Su)

tences, grammar, punctuation, and style. (Sp)

Prerequisite: None

Prerequisite: WRIT 281 2.0 minimum

Prerequisite: None Recommended: WRIT 121

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Special Courses

CHEM 115 - WRTR 102

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The following courses are generally not offered for enrollment by individual students. These course are designed in cooperation with various organizations such as businesses, governmental agencies, school districts, labor organizations, or other groups to meet their special needs.

DESCRIPTIONS

CHEM 115 Environmental Issues of Japan

Prerequisite: None

The course will include a discussion of several global environmental problems as they relate to Japan. Specific topics include air pollution, water pollution, solid waste management, the ozone layer, the greenhouse effect, nuclear energy, and disposal of radioactive wastes. (Su)

COOP 271 Cooperative Education MDOT I

Prerequisite: Department Approval Restriction: Civil Technology Majors

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 cooperative education students. (Su)

COOP 272 Cooperative Education MDOT II

Prerequisite: Department Approval

Restriction: Civil Technology Majors

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 cooperative education students. (F, Su)

HMFS 170 Menu Management and Design

Prerequisite: HMFS 131 2.0 minimum

Recommended: Minimum 2.0 in HMFS 101 and HMFS 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/Horizon students. (F, Sp, Su)

HMFS 190 Japan Adventure Internship

Prerequisite: None

Attend morning meeting each working day. Perform work duties as assigned by the student supervisor(s) and the host company. (F, Sp, Su)

HMFS 161 Japan Adventure Internship

Prerequisite: None

Attend morning meeting each working day. Perform work duties as assigned by the student supervisor(s) and the host company. (F. Sp. Su)

HMFS 183 Practicum in Japanese Culture

Prerequisite: None

Introducing the principles and philosophy of Japanese calligraphy and the use of abacus and understanding of various types of Japanese traditional dresses. Practical training in calligraphy and abacus. (F. Sp. Su)

HMFS 185 Practicum in Japanese Culture 3

Prereguisite: None

Introducing the principles and philosophy of Japanese calligraphy and the use of abacus and understanding of various types of Japanese traditional dresses. Practical training in calligraphy and abacus. (F, Sp. Su)

HUMS 125 Japan: Past and Present

Prerequisite: WRIT 121 2.0 minimum or WRIT 131 2.0 minimum or (Reading Level 5 and Writing Level 6)

This course traces the development of Japan's tradition with strong emphasis on history, religion, and literature. Further, this course demonstrates that modern Japan can best be understood in light of its distinctive traditions. (Sp)

POLS 280 Politics & Government of Japan

Prerequisite: None

An introduction to the Japanese governmental structures and political process, with emphasis on the unique characteristics of Japanese political culture, Japanese style of decision-making, and Japanese concepts of democracy. (F, Sp)

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)

SDEV 110 Leadership Development I

Prerequisite: None

Develop leadership skills through study, observation, and application. Assists students in increasing their understanding of themselves, and the theories and techniques of leadership. Specific skills include: understanding your personal philosophy, visioning, logic and creativity in decision making, servant leadership, ethics, building trust, empowering others, resolving conflict, leader as changemakers, leading with goals, time management, and situational leadership. (F)

SDEV 111 Leadership Development

Prerequisite: SDEV 110 2.0 minimum

Provides an opportunity to further develop and apply leadership skills introduced in the previous course. Students will learn and apply skills related to conference planning, implementation, and evaluation. Students will serve on Lansing Community College committees and volunteer in community organizations. (Sp)

SDEV 112 Leadership Development III

Prereguisite: SDEV 111 2.0 minimum

Provides an opportunity to apply leadership skills introduced in SDEV 110 and learn skills related to program review and evaluation. Students will evaluate the first year of the leadership program, conference, and applications process and make recommendations. Students will also serve on Lansing Community College committees and volunteer in community agencies. (F)

SDEV 113 Leadership Development IV

Prerequisite: SDEV 112 2.0 minimum

Provides an opportunity to apply leadership skills introduced in SDEV 110/SDEV 112 and learn skills related to candidate screening and selection. Students will select first year leadership program participants and evaluate the second year of the program. Students will serve on Lansing Community College committees and volunteer in community agencies. (F, Sp)

SOCL 280 Intro to Japanese Culture

Prerequisite: None

An introduction to contemporary Japan in its cultural context. Emphasis is on the unique features of the Japanese way of life in terms of Japanese values, social system, and cultural background. (F, Sp)

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 credit three times.) (F, Sp, Su)

WRTR 102 Writing Practice II

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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WRTH 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)

WRTR 104 Writing Practice IV

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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COURSE DESCRIPTIONS

The English LanguageCOURSE DESC& Culture CenterNCEL 111of InternationalPrerequisite: P

 NCEL 111
 High Beginning Spea

 NCEL 112, 113
 Intermediate Speakin

 NCEL 114, 115, 116
 Advanced Speaking/

High Beginning Speaking/ Listening Intermediate Speaking/ Listening I and II Advanced Speaking/ Listening I, II, and III non-credit non-credit non-credit

Prerequisite: Placement test or pass the immediately preceding course

Six-session sequence in speaking and listening English. 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 NCEL 122, 123 NCEL 124, 125, 126 High Beginning Reading Intermediate Reading I and II Advanced Reading I, II, and III non-credit non-credit non-credit

Prereguisite: 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 which they may encounter during their academic studies. Emphasizes vocabulary building, gaining reading speed, summarizing main ideas, note-taking, and various reading strategies.

NCEL 131	High Beginning Writing	non-credit
NCEL 132, 133	Intermediate Writing I and 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 Beginning Grammar	non-credit
NCEL 142, 143	Intermediate Grammar I and II	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

Prereguisite: 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.

Intensive English language instruction for international students and professionals

GENERAL INFORMATION

Programs

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 language 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 toil-free line at 1-800-644-4LCC and ask to be connected to the ELCC. Or check our web site at: http://www.lansing.cc.mi.us/executive/intlprog/elcc/index/htm

LANSING COMMUNITY COLLEGE 2000-2001 CATALOG

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Faculty

and Staff

FACULTY AND STAFF DIRECTORY

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BISHOP, Debbie S. Instructor, Social Science B.S., Central Michigan University, M.A., Central Michigan University BLANCHARD, William G. Professor, Technology Careers B.A., Michigan State University; M.A., University of Southern California BLATTERT, Susan D. Director, Accounting and Payroll B.S., Central Michigan University BOLLMAN, James A. **Director, Business Services** B.A., St. Louis University; 11-A Insurance Certificate, Michigan State University; Graduate Study, Assumption College and Seminary, Chaska. Minn. **BONNELLE**, Kathleen Assistant Professor, Social Science B.A., University of Washington, M.S., University of Memphis, Ph.D., University of Memphis BOUCK, Robert J. Assistant Professor, Business Careers A.A., Lansing Community College; B.A., Michigan State University; M.A., Michigan State University BROWN, Brenda Assistant Professor, Human, Health and Public Service Careers A.A.S., Lansing Community College; B.S., Western Michigan University BROWN, Mary H. Professor, Math/Science B.S., Central Michigan University; M.S., Central Michigan University BROWN, William L Director, Institutional Research, Analysis and Reporting, Information Technology and Planning B.S., University of Michigan; M.A., Eastern Michigan University; Ph.D., Michigan State University BURKE, Theodore Professor, Technology Careers A.A., Alpena Community College: B.A., Michigan State University **BUSDIECKER**, Gertrude Instructor, Science B.A., Rutgers University; M.A., University of Illinois; Ph.D., Ohio State University **BUTTERMAN**, Geraldene Professor, Science A.B., Calvin College; M.A., University of Michigan BYRNE, Deborah D. Coordinator, Humanities and Performing Arts B.M., Michigan State University: M.M., Michigan State University CALLIS, Andrew P Instructor, Theater B.S., Eastern Michigan University, M.F.A., Roosevelt University CAMPBELL, Magnus Instructor, Science M.S., University of Virginia; M.S., Southern Oregon State College; Ph.D. Utah State University CARADINE, Bruce W **Co-Director, Physical Plant** B.S. Central Michigan University; M.A. Central Michigan University CARLISLE, Harold R. Transportation Training Specialist, Technology Careers CARLSON, Stephen C. Associate Professor, Science B.A., Western Michigan University; Ph.D., Purdue University CAROL, Mary M. Associate Professor, Humanities and Performing Arts B.F.A., University of Montana; M.A., Columbia University CARPENTER, Trudy G. Instructor, Language Skills B.A., Michigan State University; M.A., Northeastern Illinois University CARTER, Jeanne Instructor, Math/Science B.S., University of Dayton; M.A.T., Oakland University: M.B.A., Qakland University

CARTWRIGHT, Brenda Associate Professor, Human, Health and Public Service Careers B.S., Ball State University; M.S., Indiana University

FARLEY, Kimberly Instructor-Librarian, Instructional and Student Support CAULEY, Anne Dean, Business & Community Institute A.A., Lansing Community College; B.A., Michigan State University; M.S., A.D., Lansing Community College, B.A., Michigan State University, M.A., Wayne State University Michigan State University FARRIS, Bruce CERNY, Glenn R. 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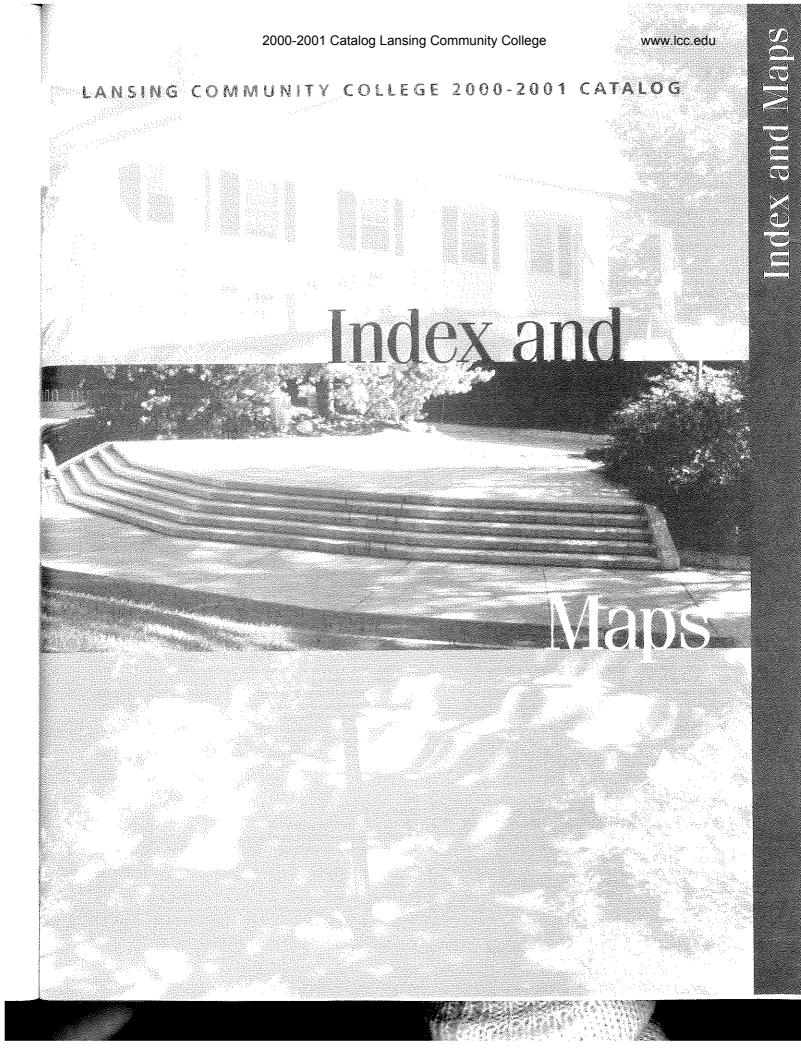
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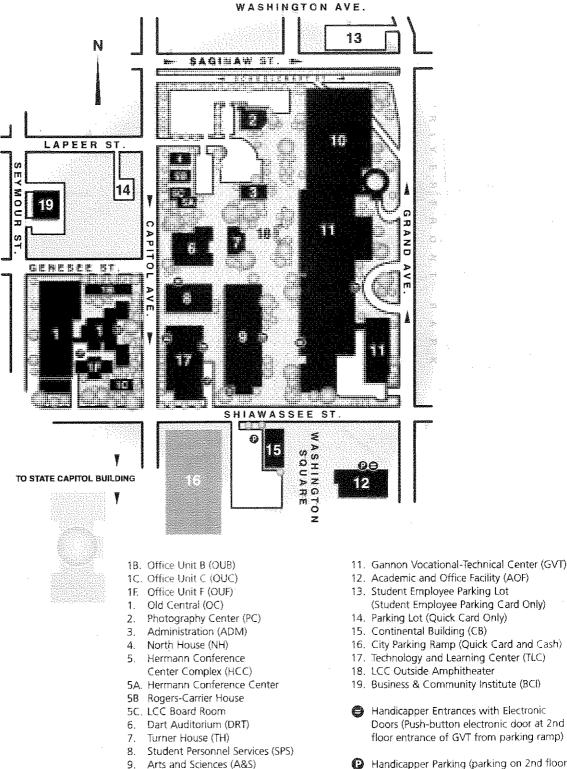
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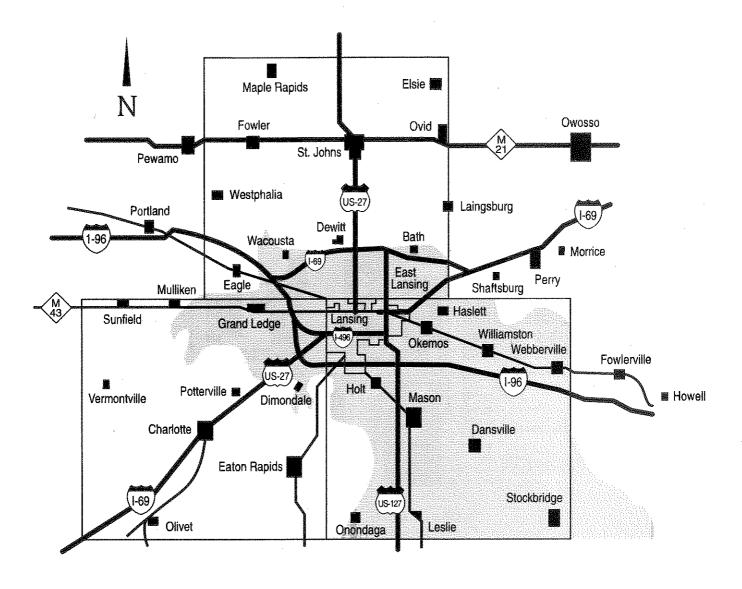
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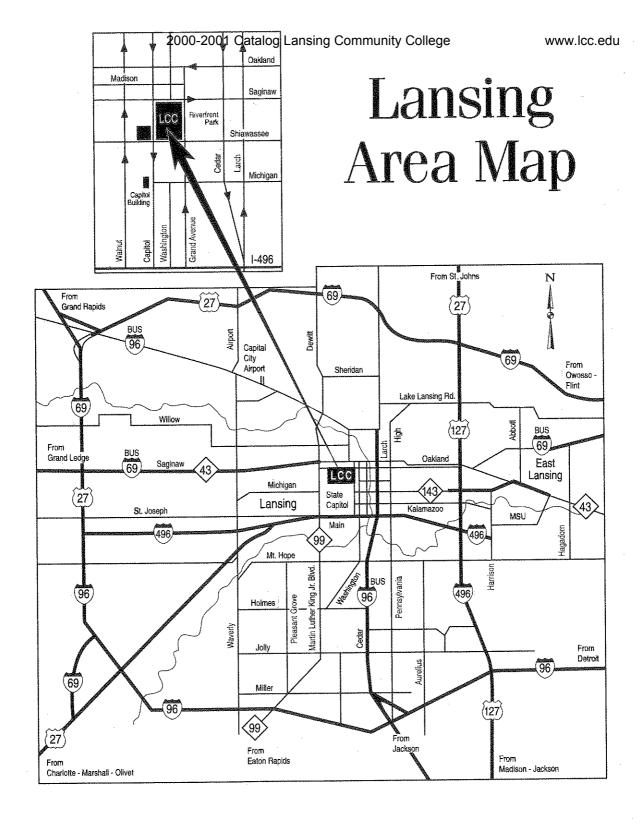
10. LCC Parking Ramp (Quick Card and Cash)

Handicapper Parking (parking on 2nd floor of Parking Ramp and other marked spaces)

Service Area Map



These School Districts constitute the LCC Resident District



Visitors to Lansing Community College

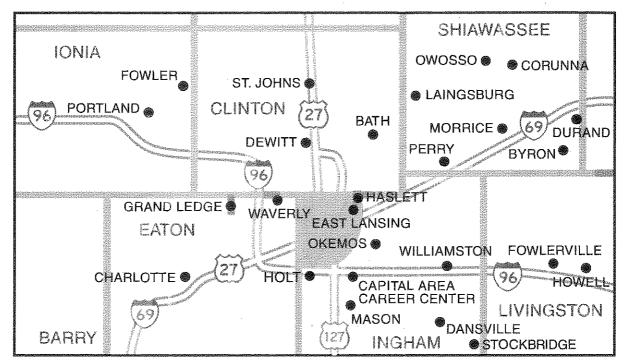
The LCC Visitor Parking Area is located in the AutoCenter Courtyard in the 400 block of Grand Avenue.

Entering the Lot

- 1. Traveling north on Grand Avenue, the AutoCenter Courtyard is located just past the intersection of Grand Avenue and Shiawassee Street.
- 2. Visitor parking is located along the south wall of the Courtyard (on your left as you drive in). All visitor spaces are posted with signs.
- 3. Attach your visitor parking permit (using the sticky tape) to the left rear window (not the side window) so the permit is visible from the rear of the car.
- 4. Throw away your visitor parking permit (after the expiration date) when use is completed.

Learning Center Locations

Extension and Community Education



LCC classses are held at local schools in partnership with Community Education Offices in these locations.

For more information call the Extension and Community Education Office at (517) 483-1860

BATH Bath High School

CHARLOTTE Charlotte High School

DANSVILLE Dansville High School

DEWITT DeWitt High School

EAST LANSING Bailey Community Center East Lansing High School

FOWLER Fowler High School

FOWLERVILLE Fowlerville High School **GRAND LEDGE** Grand Ledge High School Grand Ledge Sawdon

HASLETT Haslett Center for Community Education

HOLT Holt High School Holt Horizon School Holt Junior High School

HOWELL Livingston County Center Howell High School

LANSING Cristo Rey Community Center Crown Boxing Center Lansing Catholic Central Lansing Hill Center

MASON

Capital Area Career Center Heartwood School Mason High School

OKEMOS Chippewa Middle School Okemos Community Education Center

owosso Owosso High School

PORTLAND Portland High School

SHIAWASSEE COUNTY

Byron High School Corunna High School Durand High School Laingsburg High School Morrice High School Perry High School Shiawassee RESD ST. JOHNS

Rodney B. Wilson School

STOCKBRIDGE Stockbridge High School

WAVERLY Waverly High School Waverly Middle School

WILLIAMSTON Williamston High School