

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Architecture Technology, Sustainable Residential Design and Building Science
Associate in Applied Science Degree

Curriculum Code: 1607 (Effective Fall 2016 – Summer 2021)

This degree is designed to give students an opportunity to study all aspects of single and multi-family residential design, remodeling and construction. The focus of this degree is a comprehensive treatment of green design building and remodeling with an emphasis on preparation of residential working drawings for building projects, building evaluation, deconstruction, hazardous waste-handling, materials recycling and reuse, energy conservation, indoor air quality, use of environmentally safe products, design principles, system planning and construction best practices. Students completing this curriculum would also be eligible to apply for a certificate in Sustainable Residential Design and Building Science (1636). **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor before enrolling in any course.

PREREQUISITES

Students should see [Course Descriptions](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

INFORMATION

Contact the Architecture Technology Program, West Campus Building, Room M103, telephone number (517) 483-5338 (Website: www.lcc.edu/design/architecture/) or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5452.

REQUIREMENTS

CODE	TITLE	TOTAL: 49 CREDITS CREDIT HOURS
AEET 120	Residential Energy	3
ARCH 107	Sustainable Site Design	3
ARCH 111	Arch Design Fundamentals	3
ARCH 113	Materials & Methods of Constr.	4
ARCH 125	Environmental Systems	4
ARCH 275	Sustainable Building Design	4
BLDT 120	Structural Framing	4
CIVL 241	Statics/Strength of Materials	4
DCTM 100	Intro to the Built Environment	3
DCTM 101	Drafting/Intro to CAD (See Note 1)	3

DCTM 103	Codes and Specifications	3
DCTM 200	Construction Management I	4
MATH 115	Technical Math II	4
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](#) 3–4 Credits

(Click the link above for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area (See Note 2)	0
Global Perspectives and Diversity Core Area	3–4
Mathematics Core Area (See Note 3)	0
Science Core Area (See Note 4)	0
Writing Core Area (See Note 3)	0

Subchoice 1A: Communications 3 Credits

SPCH 110	Oral Comm in the Workplace	3
SPCH 120	Dynamics of Communication	3
SPCH 130	Fund of Public Speaking	3

Subchoice 1B: Science Choice (See Note 4) 4 Credits

BIOL 120	Environmental Science	4
PHYS 120	The Art of Physics	4
PHYS 200	Intro Physics With Application	4

CHOICE 2: Business/Entrepreneurship Studies 5–8 Credits

BLDT 180	Builders Pre–Licensure Prep	4
BUSN 118	Introduction to Business	3
BUSN 150	Legal Issues: Start Small Busn	2
BUSN 160	Starting a Business	4
BUSN 250	Personal Finance	3
LABR 204	Employment Law for Managers	3
MKTG 200	Principles of Marketing	3
REAL 271	Introduction to Real Estate	2
REAL 279	Residential Appraisal	3

MINIMUM TOTAL 64

NOTES:

1. Some students may have drafting skills from a previous high school drafting course or an equivalent college course. DCTM 101 may be waived by passing the architecture drafting placement test with an 80% or higher. The placement test is offered at the West Campus Student Services Center only. If students are successful in waiving DCTM 101, they will be required to take an additional elective course from Choice 2 to fulfill the minimum amount of credits for this curriculum.
2. Students completing "Subchoice 1A" have fulfilled the requirements for this Core area.
3. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.
4. Students completing "Subchoice 1B" have fulfilled the requirements for this Core area. PHYS 200 is recommended for students transferring to four-year programs in technology 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 for help with adjustments.

I	II	III	IV
ARCH 107	ARCH 125	WRIT 127	AEET 120
ARCH 111	BLDT 120	Lim.Ch.1	ARCH 275
ARCH 113	DCTM 100	Lim.Ch.2	DCTM 200
DCTM 101	DCTM 103		MATH 115
V			
CIVL 241			
Lim.Ch.1A			
Lim.Ch.1B			
Lim.Ch.2			