

## LANSING COMMUNITY COLLEGE

### CURRICULUM GUIDE

Architectural Technology, Residential Design  
Associate in Applied Science Degree

Curriculum Code: 0758 (Effective Fall 2008 – Summer 2013)

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

#### PREREQUISITES

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

#### INFORMATION

Contact the Environmental, Design and Building Technologies Department, West Campus Building, Room M103, telephone number (517) 483-5338 (Website: [www.lcc.edu/cmt/architecture/](http://www.lcc.edu/cmt/architecture/)) or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5510.

#### REQUIREMENTS (See Notes 1 and 2)

CODE	TITLE	TOTAL: 43 CREDITS CREDIT HOURS
ARCH 110	Visual Communications I (See Note 1)	3
ARCH 111	Arch Design Fundamentals	3
ARCH 112	Residential Planning	3
ARCH 114	Arch Drawing/Basic CAD (See Note 2)	4
ARCH 116	Materials of Construction	4
ARCH 210	Residential Detailing	4
ARCH 214	Structural Theory	4
ARCH 216	Residential Drawing	4
BLDT 121	Residential Framing	4
BLDT 281	Mich Residential & Bldg Codes	3
LAND 232	Prof Residential Landscape Dsn	3
PHYS 120	The Art of Physics	4

**LIMITED CHOICE REQUIREMENTS****TOTAL: 28–33 CREDITS**Complete the indicated number of credits from **EACH CHOICE** listed below.**CHOICE 1: General Education Core Areas****6–8 Credits**(See *General Education Core Requirements* for information on how to fulfill these requirements.)

Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area	3–4
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 5)	0

**CHOICE 2: Mathematics****3–4 Credits**

MATH 115	Technical Math II	4
MATH 118	The Art of Geometry	3
MATH 119	Investigations with Math	3

**CHOICE 3: Writing****3 Credits**

WRIT 124	Technical Writing	3
WRIT 127	Business Writing	3

**CHOICE 4: Computer Graphics****7–8 Credits**

ARCH 221	Architectural DataCAD I (See Note 2)	4
ARCH 225	Arch DataCAD Independent Study	1–4
ARCH 232	AutoCAD Architecture	4
ARCH 233	Autodesk Revit Building	3
ARCH 235	Arch DataCAD Independent Study	1–4

**CHOICE 5: Materials Structures and Systems****3–4 Credits**

ARCH 181	Universal Design Theory	3
ARCH 182	Applied Universal Design	3
ARCH 273	Environmental Systems	4
ARCH 276	Alternative Structures	3
ARCH 278	Building Science	4

**CHOICE 6: History****3 Credits**

ARCH 141	History of Architecture I	3
ARCH 142	History of Architecture II	3

**CHOICE 7: Design****3 Credits**

ARCH 126	Architectural Model Building (See Note 1)	3
ARCH 146	Preservation/Adaptive Use Arch	3
ARCH 211	Design Studio	3
INTR 151	Beginning Kitchen/Bath Design (See Note 1)	3
INTR 190	Interior/Materials/Equipment	3

**MINIMUM TOTAL****71**

**NOTES:**

1. This curriculum requires basic architectural drafting skills attained in ARCH 100 or an equivalent high school drafting course. Students may waive ARCH 100 by passing the drafting placement test with a score of 80% or higher.
2. This curriculum requires Microsoft Windows skills attained in CITF 108. Students may waive this prerequisite by passing the MS Windows Assessment Test with a score of 80% or higher.
3. Students completing CHOICE 2 have fulfilled the requirements for this Core area.
4. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.
5. Students completing CHOICE 3 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	II	III	IV
ARCH 110	ARCH 114	Lim.Ch.1	ARCH 210
ARCH 111	ARCH 116	Lim.Ch.3	ARCH 214
ARCH 112	BLDT 281		Lim. Ch.4
BLDT 121	PHYS 120		Lim.Ch.6
Lim.Ch.2	Lim.Ch.1		
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V			
ARCH 216			
LAND 232			
Lim,Ch.4			
Lim.Ch.5			
Lim.Ch.7			