

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Architectural Tech, Residential Design
Associate in Applied Science Degree

Curriculum Code: 0758 (Effective Fall 2006 – Summer 2011)

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 or Counseling and Advising Centers, Gannon Vocational-Technical Center, Room 204, telephone number (517) 483-1904.

REQUIREMENTS (See Note 1)

CODE	TITLE	TOTAL: 43 CREDITS CREDIT HOURS
ARCH110	Visual Communications I (See Note 1)	3
ARCH111	Architectural Design Fundamentals	3
ARCH112	Residential Planning	3
ARCH114	Architectural Drawing/Basic CAD	4
ARCH116	Materials of Construction	4
ARCH210	Residential Detailing	4
ARCH214	Structural Theory (See Note 1)	4
ARCH216	Residential Drawing	4
BLDT121	Residential Framing	4
BLDT281	Michigan Residential & Building Codes	3
LAND232	Professional Residential Landscape Dsgn	3
PHYS120	The Art of Physics	4

LIMITED CHOICE REQUIREMENTS

TOTAL: 29-33 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 2)	0
Science Core Area (See Note 3)	0
Writing Core Area (See Note 4)	0

CHOICE 2: Mathematics	3 Credits
MATH118 The Art of Geometry	3
MATH119 Investigations with Math	3
CHOICE 3: Writing	3 Credits
WRIT124 Technical Writing	3
WRIT127 Business Writing	3
CHOICE 4: Computer Graphics	4 Credits
ARCH221 Architectural DataCAD I (See Note 1)	4
ARCH225 Architectural DataCAD Independent Study	1-4
ARCH232 AutoCAD Architectural Desktop	4
ARCH235 Architectural AutoCAD Independent Study	1-4
CHOICE 5: Materials Structures and Systems	7-8 Credits
ARCH182 Applied Universal Design	3
ARCH273 Environmental Systems	4
ARCH276 Alternative Structures	3
ARCH278 Building Science	4
CHOICE 6: History	3 Credits
ARCH141 Architectural History I	3
ARCH142 Architectural History II	3
CHOICE 7: Design	3-4 Credits
ARCH126 Architectural Model Building (See Note 1)	3
ARCH146 Preservation/Adaptive Use Architecture	3
ARCH211 Design Studio (See Note 1)	3
INTR151 Beginning Kitchen and Bath Design (See Note 1)	4
INTR190 Interior/Materials/Equipment	3
MINIMUM TOTAL	72

NOTES:

1. This curriculum requires basic architectural drafting skills attained in ARCH100 or an equivalent high school drafting course. Students may waive ARCH100 by passing the drafting placement test with a score of 80% or higher.
2. Students completing CHOICE 2 have fulfilled the requirements for this Core area.
3. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.
4. 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
ARCH110	ARCH114	Lim.Ch.1	ARCH210
ARCH111	ARCH116	Lim.Ch.3	ARCH214
ARCH112	BLDT281		Lim. Ch.4
BLDT121	PHYS120		Lim.Ch.6
Lim.Ch.2	Lim.Ch.1		
V			
ARCH216			
LAND232			
Lim.Ch.5			
Lim.Ch.5			
Lim.Ch.7			