

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

Architectural Tech, Residential Design  
Associate in Applied Science Degree

Curriculum Code: 0758 (Effective Fall 2005 – Summer 2010)

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.

### REQUIREMENTS

CODE	TITLE	TOTAL: 39 CREDITS CREDIT HOURS
ARCH101	Residential Detailing (See Note 1)	4
ARCH102	Residential Drawing	4
ARCH111	Architectural Design Fundamentals	3
ARCH121	Visual Communication I (See Note 1)	3
ARCH128	Residential Design	3
ARCH271	Structural Theory (See Note 1)	4
BLDT121	Residential Framing	4
BLDT277	Construction Cost Estimating	4
BLDT281	Michigan Residential & Building Codes	3
LAND232	Professional Residential Landscape Dsgn	3
PHYS120	The Art of Physics	4

### LIMITED CHOICE REQUIREMENTS

TOTAL: 33-39 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

<b>CHOICE 2: Mathematics</b>	<b>3 Credits</b>
MATH118    The Art of Geometry	3
MATH119    Investigations with Math	3
 <b>CHOICE 3: Writing</b>	 <b>3 Credits</b>
WRIT124    Technical Writing	3
WRIT127    Business Writing	3
 <b>CHOICE 4: Computer Graphics</b>	 <b>8–10 Credits</b>
ARCH221    Architectural DataCAD I (See Note 1)	4
ARCH222    Architectural DataCAD II	4
ARCH225    Architectural DataCAD Independent Study	1–4
ARCH232    Architectural AutoCAD II	4
ARCH235    Architectural AutoCAD Independent Study	1–4
ARCH237    Architectural Computer Rendering	3
 <b>CHOICE 5: Materials Structures and Systems</b>	 <b>7–8 Credits</b>
ARCH182    Applied Universal Design	3
ARCH273    Environmental Systems	4
ARCH276    Alternative Structures	3
ARCH278    Building Science	4
ARCH283    Materials of Construction	4
 <b>CHOICE 6: History</b>	 <b>3 Credits</b>
ARCH141    Architectural History I	3
ARCH142    Architectural History II	3
ARCH146    Preservation/Adaptive Use Architecture	3
 <b>CHOICE 7: Design</b>	 <b>3–4 Credits</b>
ARCH126    Architectural Model Building	3
ARCH211    Design Studio	3
INTR151    Beginning Kitchen and Bath Design	4
INTR190    Interior/Materials/Equipment	3
 <b>MINIMUM TOTAL</b>	 <b>72</b>

**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
ARCH101	ARCH102	Lim.Ch.1	ARCH271
ARCH111	ARCH128	Lim.Ch.1	BLDT277
ARCH121	BLDT121	Lim.Ch.3	Lim. Ch.4
BLDT281	Lim.Ch.5		Lim.Ch.5
Lim.Ch.2			Lim.Ch.6
<hr/>			
V			
LAND232			
PHYS120			
Lim.Ch.4			
Lim.Ch.7			