

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

Architectural Technology  
Associate in Applied Science Degree

Curriculum Code: 0233 (Effective Fall 2006 – Summer 2011)

The Architectural Studies Program offers students interested in the field of architecture a comprehensive program of study, involving all aspects of the contemporary architectural profession. Graduates of this 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 *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<br>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                                 |
| ARCH146 | Preservation/Adaptive Use Architecture | 3                                 |
| ARCH214 | Structural Theory (See Note 1)         | 4                                 |
| ARCH218 | Commercial Architectural Planning      | 4                                 |
| ARCH220 | Commercial Architectural Drawing       | 4                                 |
| BLDT277 | Construction Cost Estimating           | 4                                 |
| BLDT281 | Michigan Residential & Building Codes  | 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   |

|  |                    |
|--|--------------------|
| <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>7-8 Credits</b> |
| ARCH232 AutoCAD Architectural Desktop              | 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> |
| ARCH273 Environmental Systems                      | 4                  |
| ARCH276 Alternative Structures                     | 3                  |
| ARCH278 Building Science                           | 4                  |
| <b>CHOICE 6: Design</b>                            | <b>3 Credits</b>   |
| ARCH126 Architectural Model Building (See Note 1)  | 3                  |
| ARCH211 Design Studio (See Note 1)                 | 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 must complete one course from CHOICE 2 to fulfill the requirements for the Mathematics Core area.
3. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.
4. Students must complete one course from CHOICE 3 to fulfill the requirements for the Writing 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 | ARCH214  |
| ARCH111  | ARCH116  | Lim.Ch.1 | ARCH218  |
| ARCH112  | ARCH146  | Lim.Ch.3 | Lim.Ch.4 |
| BLDT281  | PHYS120  |          | Lim.Ch.5 |
| Lim.Ch.2 | Lim.Ch.5 |          |          |
| <b>V</b> |          |          |          |
| ARCH220  |          |          |          |
| BLDT277  |          |          |          |
| Lim.Ch.4 |          |          |          |
| Lim.Ch.6 |          |          |          |