

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Architecture Technology
Associate in Applied Science Degree

Curriculum Code: 1455 (Effective Fall 2008 – Summer 2013)

The Architecture Technology Degree is designed to prepare students to work in entry-level positions assisting in architecture or allied disciplines such as engineering, interior design, real estate development, and construction. This curriculum is also designed for students wishing to obtain credentials to become a licensed architect by transferring to accredited university programs or for those interested in transferring to obtain a baccalaureate degree in architecture, interior architecture, or any non-licensed profession related to the built environment. The curriculum provides graduates with a broad foundation of technical abilities with an emphasis on job entry skill development, computer aided design, design creativity and awareness, and problem solving. **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: <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: 50 CREDITS CREDIT HOURS |
|----------|--------------------------------------|-----------------------------------|
| ARCH 105 | Architecture Appreciation | 2 |
| ARCH 110 | Visual Communications I (See Note 2) | 3 |
| ARCH 114 | Arch Drawing/Basic CAD | 4 |
| ARCH 120 | Visual Communications II | 3 |
| ARCH 126 | Architectural Model Building | 3 |
| ARCH 141 | History of Architecture I | 3 |
| ARCH 142 | History of Architecture II | 3 |
| ARCH 233 | Autodesk Revit Building | 3 |
| ARTS 102 | Design & Communication | 3 |
| MATH 122 | Precalculus II (See Note 3) | 4 |
| MATH 151 | Calculus I | 4 |
| PHYS 221 | Introductory Physics I (See Note 3) | 4 |
| PHYS 222 | Introductory Physics II | 4 |
| WRIT 121 | Composition I | 4 |
| WRIT 127 | Business Writing | 3 |

LIMITED CHOICE REQUIREMENTS**TOTAL: 20–25 CREDITS**Complete the indicated number of credits from **EACH CHOICE** listed below.**CHOICE 1: General Education Core Areas****0 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 (See Note 4) | 0 |
| Global Perspectives and Diversity Core Area (See Note 5) | 0 |
| Mathematics Core Area (See Note 4) | 0 |
| Science Core Area (See Note 4) | 0 |
| Writing Core Area (See Note 4) | 0 |

CHOICE 2: Humanities**8 Credits**

| | | |
|----------|--------------------------------|---|
| ENGL 211 | World Literature I | 4 |
| ENGL 212 | World Literature II | 4 |
| HUMS 160 | Mythology | 4 |
| HUMS 211 | Art History to the Renaissance | 4 |
| HUMS 212 | Art Hist from the Renaissance | 4 |
| MUSC 240 | World Music History I | 4 |
| MUSC 241 | World Music History II | 4 |
| PHIL 211 | Philosophy: Ancient & Medieval | 4 |

CHOICE 3: Social Science**6–8 Credits**

| | | |
|----------|-----------------------------------|---|
| HUMS 213 | World Civilizations to 1600 | 4 |
| HUMS 214 | World Civilizations from 1600 | 4 |
| PHIL 212 | Philosophy: Modern & Contemporary | 4 |
| POLS 260 | Comparative Political Systems | 3 |
| POLS 270 | International Relations | 3 |
| SOCL 120 | Introduction to Sociology | 4 |
| SOCL 260 | Race and Ethnicity | 3 |

CHOICE 4: Area of Emphasis – Architecture**6–9 Credits**

| | | |
|----------|--------------------------------|---|
| ARCH 111 | Arch Design Fundamentals | 3 |
| ARCH 116 | Materials of Construction | 4 |
| ARCH 146 | Preservation/Adaptive Use Arch | 3 |
| ARCH 181 | Universal Design Theory | 3 |
| ARCH 182 | Applied Universal Design | 3 |
| ARCH 210 | Residential Detailing | 4 |
| ARCH 211 | Design Studio (See Note 6) | 3 |
| ARCH 214 | Structural Theory | 4 |
| ARCH 232 | AutoCAD Architecture | 4 |
| ARCH 276 | Alternative Structures | 3 |
| ARCH 278 | Building Science | 4 |
| BLDT 277 | Construction Cost Estimating | 4 |
| BLDT 281 | Mich Residential & Bldg Codes | 3 |
| CIVL 241 | Statics/Strength of Materials | 5 |

MINIMUM TOTAL**70**

NOTES:

1. It is highly recommended that students work with an advisor before beginning this curriculum which assumes high level math placement.
2. Basic architecture drafting skills are necessary to begin this curriculum and may be demonstrated by a score of 80% or better on the Architecture Drafting Placement Test or by passing ARCH 100 with a 2.0 minimum grade.
3. Students need a Math Level 7 for MATH 122 and a Math Level 9 for PHYS 221. Math levels can be established by placement test or by completing MATH coursework as indicated in each course prerequisite.
4. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.
5. Students completing "CHOICE 2" have fulfilled the requirements for this Core area.
6. **Lawrence Technological University Transfer** – To complete the first two years of a 2 + 2 agreement with Lawrence Technological University (LTU) for a Bachelor of Science in Architecture or Interior Architecture, students intending to transfer must be enrolled with both LCC and LTU. Additionally, the following two LTU courses must be completed at the designated LTU site during the second year of study: ARC 2117 – Integrated Design Studio (7 LTU Credits) and ARC 2126 – Integrated Design Studio II (6 LTU Credits).

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 105 | ARCH 114 | Lim.Ch.2 | ARCH 141 |
| ARCH 110 | ARCH 120 | Lim.Ch.3 | PHYS 222 |
| ARCH 126 | MATH 151 | PHYS 221 | WRIT 127 |
| ARTS 102 | WRIT 121 | | Lim.Ch.4 |
| MATH 122 | Lim.Ch.2 | | |
| V | | | |
| ARCH 142 | | | |
| ARCH 233 | | | |
| Lim.Ch.3 | | | |
| Lim.Ch.4 | | | |

Lawrence Technological University 2+2 Students

- ARC 2117 Integrated Design Studio I
 ARC 2126 Integrated Design Studio II