

ARCHITECTURAL AND ENGINEERING DESIGN TECHNOLOGY

Program Overview

Students in the Architectural and Engineering Design certificate program learn the skills needed for a career in Computer Aided Design (CAD). CAD technicians with the requisite technical knowledge, visual talent and organizational skills can expect to find work in such diverse

fields as mechanical/architectural design, civil engineering, surveying, commercial art and interior design.

The MCC certificate program serves students seeking to enter the drafting and design field as well as those looking to develop their skills and advance in their career.

Requirements for Architectural and Engineering Design Certificate

| Curriculum: OCC 171 | Credit Hours | | |
|--|--------------|--|---|
| Program Core | 6 | (3) AET 151 Computer Aided Design Graphics I (3) AET 152 Computer Aided Design Graphics II | |
| Building Information Modeling (BIM) Technology Specialization Option | 12 | (3) AET 161 BIM Revit I (3) AET 162 BIM Revit II | (3) AET 165 BIM Navisworks I (3) CMT 102 Construction Documents |
| Engineering Technology Specialization Option | 12 | (3) AET 171 Parametric Modeling SolidWorks I (3) AET 172 Parametric Modeling SolidWorks II (3) IMT 104 Blueprint Reading for Manufacturing | (3) AET elective subject to department chair approval. |
| Digital Design and Fabrication Technology Specialization Option | 12 | (3) AET 171 Parametric Modeling SolidWorks I (6) AET elective subject to department chair approval. | (3) CMT 102 Construction Documents or (3) IMT 104 Blueprint Reading for Manufacturing or (3) GRA 100 Adobe Design Suite |
| Interior Design Specialization Option | 12 | (3) AET 141 Interior Design I (3) AET 142 History of Interiors | (3) AET 241 Interior Design II (3) CMT 102 Construction Documents |
| Landscape Design and CAD Technology Specialization Option | 12 | (3) HRT 161 Landscape Design (3) HRT 265 Landscape CAD | (3) HRT 266 Landscape Construction (3) CMT 102 Construction Documents |
| Virtual and Augmented Reality Specialization Option | 12 | (6) AET elective subject to department chair approval. | (3) ANI 105 3D Modeling and Animation I (3) DGM 160 3D Game Development I |
| Total Certificate Credits | 18 | | |

For more information, visit: www.mchenry.edu/aet

Other Certificate Graduation Requirements:

- 2.0 minimum cumulative GPA at MCC upon completion of program
- For certificates of less than 12 credit hours, all required credits must be completed through MCC coursework. For all other certificates, one-half of the minimum credit hours required must be completed through MCC coursework.

- Completion of the graduation application

For more information, contact the department chair: (815) 479-7521.