

## MCHENRY COUNTY COLLEGE

# ARCHITECTURAL AND ENGINEERING DESIGN TECHNOLOGY

A PROGRAM IN CONJUNCTION WITH THE MCC FAST TRACK

*The Fast Track at McHenry County College is a cohort-based program that helps give students the advantage they need when competing for jobs in today's workforce. Through the Fast Track, students can earn a certificate in two years or less and an associate's degree in three years, depending on the program.*

Nearly everything manufactured and built in today's society starts with computer generated drawings. Drafters and designers work in a variety of industries, including manufacturing, architecture and construction to develop the technical drawings needed for the manufacturing and construction of our built environment. Using the latest computer-aided design (CAD) systems, including parametric solid modeling and building information modeling (BIM), they create both 2-D and 3-D models and drawings for everything—from the simplest machined part of a mechanical assembly to the largest and most complex structures such as bridges and skyscrapers and everything in between.

The Architectural and Engineering Design Certificate program, with specialization in either architectural, engineering, or interior design technology, represents a collective approach to developing or upgrading the necessary visualization, graphical communication and organization skills required of this ever evolving field. CAD technicians can expect to find employment in such diverse occupations as architectural/mechanical/civil design and construction, surveying, product design, or fashion/interior design.

### CATEGORIES FOR THIS CAREER FIELD INCLUDE:

- Architectural and Interior Design Drafters
- Civil Drafters
- Mechanical Drafters
- Electrical Drafters
- Building Information Modeling (BIM) Drafters

[www.mchenry.edu/aet](http://www.mchenry.edu/aet)

For more information, contact Bob Mihelich, AIA, NCARB  
Chair of Applied Technology at (815) 455-8719  
or [bmihelich@mchenry.edu](mailto:bmihelich@mchenry.edu)

To register, contact Lori Smyth, Fast Track Coordinator  
at (815) 479-7831 or [lsmyth@mchenry.edu](mailto:lsmyth@mchenry.edu)



Dale Giberson



Kyle Jankowski

### SALARY RANGE

\$30,000 to \$45,700

### JOB OUTLOOK\*

Projected growth is 3-9% in most fields, higher in others. Projected job openings range by field. Top industries are professional, scientific, manufacturing, and technical services.

### EMPLOYERS

Private firms, government, manufacturing, scientific and technical services companies.

*\*From the Bureau of Labor Statistics*

**Architectural and Engineering Design Certificate** (18 total credit hours)

<b>Course</b>	<b>Name</b>	<b>Credit Hours</b>
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**Program Core (6 credit hours)**

AET151	Computer Aided Design Graphics I	3
AET152	Computer Aided Design Graphics II	3

**Building Information Modeling (BIM) Technology Specialization (12 credit hours)**

AET161	BIM Revit I (NEW!)	3
AET162	BIM Revit II (NEW!)	3
CMT102	Construction Documents	3
AET165	BIM Navisworks I	3

**Digital Design and Fabrication Technology (12 credit hours)**

AET 171	Parametric Modeling SolidWorks I	3
AET Elective	Subject to department chair approval	3
CMT 102	Construction Documents	3
<b>OR</b> IMT 104	Blueprint Reading for Manufacturing	3
<b>OR</b> GRA 100	Adobe Design Suite	3

**Engineering Technology Specialization (12 credit hours)**

AET171	Parametric Modeling SolidWorks I (NEW!)	3
AET172	Parametric Modeling SolidWorks II (NEW!)	3
<b>Choose one option</b> IMT104	Blueprint Reading for Manufacturing	3
IMT103	Materials of Industry	3

**Interior Design Specialization (12 credit hours)**

AET141	Interior Design I	3
AET142	History of Interiors	3
AET 241	Interior Design II	3
CMT102	Construction Documents	3

**Landscape Design and CAD Technology Specialization (12 credit hours)**

HRT 161	Landscape Design	3
HRT 265	Landscape CAD	3
HRT 266	Landscape Construction	3
CMT 102	Construction Documents	3

**Virtual and Augmented Reality Specialization (12 credit hours)**

AET Elective	Subject to department chair approval	6
ANI 105	3D Modeling and Animation I	3
DGM 160	3D Game Development I	3

Note: Certificate and degree requirements per 2015–2016 MCC Catalog.