

## DRAFTING - STRUCTURAL CONCENTRATION

The structural drafting concentration prepares students to create technical drawings and construction documents used in the construction, maintenance, and modernization of industrial and commercial facilities. Students will be introduced to the principles of Building Information Management (BIM) utilizing computer-aided design processes to produce detailed architectural and structural drawings. Successful graduates may find employment with architectural and engineering firms, general contractors, material suppliers, manufacturers and structural fabricators.

*(Enrollment in this program is limited and is based on the date of application.)*

### Required Program of Study for Associate of Applied Science Degree (2 years)

#### FRESHMAN YEAR

First Semester	
Course	Credits
ARCH 1160 Fundamentals of Drafting .....	3
ARCH 1130 Introduction to Construction Documents ...	3
ARCH 1270 Computer Assisted Drafting I .....	4
OFFT 1500 Microsoft Office* .....	3
MATH 1020 Technical Mathematics I* .....	3
	16

Second Semester	
Course	Credits
ARCH 1120 Materials of Construction .....	3
ARCH 1220 Estimating for Construction .....	3
ARCH 1230 Introduction to Revit .....	4
MATH 1060 Technical Mathematics II* .....	3
BSAD 2050 Business Communications* .....	3
	16

#### Required Summer Coursework

ARCH 1300 Cooperative Internship I .....	3
	3

#### SOPHOMORE YEAR

First Semester	
Course	Credits
ARCH 2010 Structural CAD Drafting I .....	6
ARCH 2260 Introduction to Inventor .....	3
ARCH 2020 Computer Assisted Drafting III .....	4
ECON 1010 Personal and Business Finance* .....	2
	15

Second Semester	
Course	Credits
ARCH 2200 Structural CAD Drafting II .....	6
ARCH 2220 Computer Assisted Drafting IV .....	4
PSYC 1000 Human Relations* .....	2
PHYS 2150 Structural Analysis .....	3
	15
<b>Total Credit Hours</b>	<b>65</b>

\*See general education requirements.