

DRAFTING

To earn an associate of applied science degree in either architectural, structural, or mechanical drafting, a student must successfully complete the following general education and core requirements in addition to one of the specific concentrations listed.

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

Core Requirements		General Education Requirements	
Course	Credits	Course	Credits
ARCH 1160 Fundamentals of Drafting	3	BSAD 2050 Business Communications	3
ARCH 1270 Computer Assisted Drafting I	4	ECON 1010 Personal and Business Finance	2
ARCH 1300 Cooperative Internship I	3	MATH 1020 Technical Mathematics I	3
ARCH 2260 Introduction to Inventor	3	MATH 1060 Technical Mathematics II	3
PHYS 2150 Structural Analysis	3	OFFT 1500 Microsoft Office	3
	<u>16</u>	PSYC 1000 Human Relations	2
			<u>16</u>
Core Requirements		16	
General Education Requirements		16	
Approved Electives		30-35	
Total Credits Required		<u>62-67</u>	

Approved Electives for Drafting-Architectural Concentration

Course	Credits
ARCH 1120 Materials of Construction	3
ARCH 1130 Introduction to Construction Documents ...	3
ARCH 1170 Introduction to Construction	3
ARCH 1220 Estimating for Construction	3
ARCH 1230 Introduction to Revit	4
ARCH 2020 Computer Assisted Drafting III	4
ARCH 2100 Survey and Site Planning	3
ARCH 2110 Architectural CAD I	4
ARCH 2150 Civil Drafting	2
ARCH 2210 Architectural CAD II	6
	<u>35</u>

Approved Electives for Drafting-Mechanical Concentration

Course	Credits
ARCH 1280 Introduction to SolidWorks	4
ARCH 1285 Geometric Dimensioning and Tolerancing ...	2
ARCH 1295 Engineering Materials and Processes	2
ARCH 2130 Mechanical Drafting I	4
ARCH 2230 Mechanical Drafting II	6
ENGR 1010 Introduction to Engineering Design	3
INDT 1015 Introduction to Manufacturing	2
INDT 1065 Manufacturing Technologies and Measurement ...	2
INDT 1170 Introduction to Total Quality Management ...	2
INDT 1090 Introduction to Machining	0.5
INDT 1095 Introduction to Machining Lab	1
WELD 1010 Related Welding	0.5
WELD 1020 Related Welding Lab	1
	<u>30</u>

Approved Electives for Drafting-Structural Concentration

Course	Credits
ARCH 1120 Materials of Construction	3
ARCH 1130 Introduction to Construction Documents ...	3
ARCH 1220 Estimating for Construction	3
ARCH 1230 Introduction to Revit	4
ARCH 2010 Structural CAD Drafting I	6
ARCH 2020 Computer Assisted Drafting III	4
ARCH 2200 Structural CAD Drafting II	6
ARCH 2220 Computer Assisted Drafting IV	4
	<u>33</u>

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)

FIRST YEAR

Fall 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
	<u>16</u>

Spring 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
	<u>16</u>

Summer	
Course	Credits
ARCH 1300 Cooperative Internship I	3
	<u>3</u>

SECOND YEAR

Fall 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
	<u>15</u>

Spring 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
	<u>15</u>
Total Credit Hours	65

*See general education requirements.