Architectural Drafting and Design, AAS
School of Technology

Program Description

Students in the Architectural Drafting and Design AAS program learn to translate the ideas, rough sketches, specifications and calculations of architects into working drawings for production and construction.

Career Opportunities

Graduates of this program will accept jobs with the following titles: architectural drafter, architectural drafting technician, architectural drafting technician trainee and first-level CADD operators.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:
- Analyze and translate architectural and construction problems by presenting them visually as working drawings.
- Develop the ability to execute quantitative design of construction.
- Apply concepts from physics, engineering, architectural mechanics, mathematics and drafting and apply them to the synthesis of construction.
- Communicate effectively and appropriately; record and report information significant to the job.
- Perform an infinite number of two-dimensional drawings using a stand-alone mini-computer.
- Identify the basic components of a CADD system.
- Perform an infinite number of 2-D design math computations necessary to produce drafting design.
- Implement the basic commands necessary to apply the operational skills needed to affect a 2-D CADD system.
- Utilize construction industry vocabulary.
- Originate and interpret drawings using these construction industry standards.
- Determine cost estimates utilizing appropriate construction materials.
- Apply appropriate specifications, building codes and local ordinances in a job assignment.
- Network with building inspectors, architects, engineers, designers and clients.

Sugg. Term	Seq #	Course ID	Course Title	Cr.	Prereq/Coreq(Co)	Options Available
1st Fall	1	PDV 101	First Year Seminar	1		
	2	ARC 101	Building Materials & Estimating	3		
	3	ARC 105	Architectural Drafting I	4		
	4	ENG 161	College Writing	3	ENG 085 or Placement	
	5	MTH 104	Introduction to Applied Mathematics	4	MTH 050 or Placement	
1st Spring	6	ARC 102	Contracts and Specifications	3		
	7	ARC 106	Architectural Drafting II	4	ARC 105	
	8	ARC 210	Architectural AutoCAD I	4		
	9	ENG 162	Technical Communication	3	ENG 161	
	10	MTH 108	Mathematics for Technologies I	4	MTH 104 ("C" or better) or Placement	
2nd Fall	11	ARC 119	Introduction to Surveying	3	MTH 104	
	12	ARC 211	Architectural AutoCAD II	4	ARC 210	
	13	EGR 221	Statics and Strength of Materials	4	EGR 101 or Permission of Instructor	
	14	PHY 107	Applied Physics	4	MTH 108, MTH 100	
2nd Spring	15	ARC 215	Architectural Presentation	4	ARC 210	
	16	ARC 262	Piping, Structuring Detailing and Electromechanical Drafting	4	ARC 210 or DFT 258	
	17	Elective	Restricted Elective	3-4		See List
	18	Elective	Social Science Elective	3		Page 47 Column III
Minimum Program Credits				62-63		ADD

Restricted Electives: Courses with ARC, DFT, EGR or HAC Prefix