Drafting and CAD Technology

Associate of Applied Science Degree

Program Description

In the Drafting & CAD Technology program, students acquire the skills necessary for entry-level drafting jobs in the design/drafting industry using computer-based systems to produce technical illustrations used in manufacturing, production, and construction. Sometimes called a CAD (Computer Aided Drafting) technician, students will create design concepts that are workable in the real world. Using the CAD software, students perform calculations, develop simulations, and manipulate and modify the displayed material. Although most drafters work at computer terminals much of the time, students will also learn traditional drafting which entails creating manual drawings at drafting tables.

Year 1	**Credits**	
	Fall	**Spring**
DDSN 113 - Technical Drafting	3	
DDSN 118 - CAD I	4	
CSTN 148 - Blueprints, Codes, and Estimating	3	
M 111 - Technical Mathematics	3	
COMX 115 - Introduction to Interpersonal Communication	3	
DDSN 135 - SolidWorks I recommended pre-req		3
DDSN 166 - Revit I recommended pre-req		3
DDSN 245 - Civil Drafting recommended pre-req		3
DDSN 112 - Professional Practices		3
CSTN 173 - Arch Construct and Material		3
MFTG 205 - Manufacturing Process		3
Year Total:	16	18
Year 2	**Credits**	
	Fall	**Spring**
DDSN 215 - Mechanical Detailing* or CSTN 248 - Plans Examining II - IBC - Commercial Codes, Blueprint Reading, and Estimating	3	
DDSN 235 - SolidWorks II* or DDSN 266 - Revit II	3	
DDSN 236 - Product Design Challenges* or DDSN 265 - Architectural Drafting	3	
DDSN 275 - Computer Rendering	3	
ITS 280 - Computer Repair Maintenance	4	
DDSN 291 - Special Topics (Construction Visualization)		3
DDSN 299 - Capstone		3
DDSN 298 - Internship		4
WRIT 104 - Workplace Communications		2
Advisor-approved Elective		3
Year Total:	16	15
Total Program Credits:		**65**

recommended pre-req *DDSN 131 or IDSN 230*

* ***First class:*** *Industrial Design Focus*

Second class: *Architectural Focus*

Many students need preliminary math and writing courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedules.

A grade of "C-" or above is required for graduation in each course.

Students wishing to apply comparative course work for Degree and/or Prerequisite credit must have received a B or better in that course work and receive Program Director approval.