

Computer Aided Design Drafting

Lincoln Campus

Associate of Applied Science Degree

Types of jobs available:

- Consumer product design
- Industrial process design
- Commercial constructions design
- Virtual building design

Computer aided design drafters are responsible for the dynamic new designs of most structures and consumer products available today. In engineering and architectural offices across the nation, designers have many responsibilities that will employ their abilities to think "outside the box" as they create solutions to today's design challenges.

Program graduates are employed by large and small businesses and by government agencies.

Design drafters are professional people involved in the process of creating solutions to technical engineering design problems. They work in a specialized environment as communicators and must exhibit good written and verbal skills, along with the use of high levels of math and physics to create new industrial, commercial and business products.

Program overview

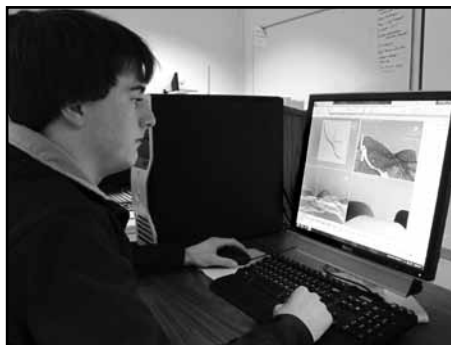
The program is located on the Lincoln Campus and admits new students every quarter. Students must earn a minimum course grade of "C" or higher in all prerequisite and program courses to continue to the next course.

For more information contact:

Dan Masters, Program Chair
402-437-2650, 800-642-4075 ext. 2650,
dmasters@southeast.edu

or the College Admissions Office
Lincoln 402-437-2600, 800-642-4075 ext. 2600

Credit Hours Required for Graduation:
120.0



Computer Aided Design Drafting is communication through the use of graphic representation and creation of 3-D designs. Students take courses that prepare them for employment in a variety of exciting and rewarding areas of computer aided design. Students take courses using computer-aided-drafting software in the first three quarters as a prerequisite for advanced design courses. Computer design labs are designed to give students hands-on training in an atmosphere commonly found in industry. With the use of 3-dimensional rapid prototyping plotters students produce solid ABS plastic parts. This simulates the activities Design Drafters would be involved in working with many companies. A minimum grade of "C" or higher is required in all courses for graduation from this program.

Entry level requirements for DRAF1220 are: two years of recent industry AutoCad experience, or Career Pathways Advanced Placement credit from high school within the last year, or take course DRAF1120.

Core Courses:

COURSE #	COURSE TITLE	CREDIT HRS
DRAF1110	Design Drafting Concepts	3.0
DRAF1215	Architectural Concepts	3.0
DRAF1220	3-D Solid Modeling	5.0
DRAF1310	3-D Visualization	3.0
DRAF1330	Solid Works	5.0
DRAF1340	Strength of Materials	4.0
DRAF1400	Virtual Building Design w/Revit	5.0
DRAF1500	Advanced Virtual Building Design w/Revit	5.0
DRAF2100	Commercial Construction Materials	3.0
DRAF2110	Architectural Design	3.0
DRAF2120	Commercial Construction Process	3.0
DRAF2130	Industrial Plastics	3.0
DRAF2150	Structural Steel Design with SDS/2	5.0
DRAF2180	Professional Practice-Architectural	3.0
DRAF2200	Geometric Dimensioning & Tolerancing	3.0
DRAF2210	Engineering Processes	3.0
DRAF2215	Plastics Part Design	3.0
DRAF2220	Flat Pattern Layout	3.0
DRAF2230	Design Concepts	3.0
DRAF2240	Consumer Product Design	3.0
DRAF2260	Jigs & Fixture-Design	3.0
DRAF2520	Electronic Drafting	3.0
ACFS2020	Career Development	2.5
BSAD1090	Business Law I	4.5
INFO1121	Microsoft Word & PowerPoint	1.5
INFO1131	Microsoft Excel	1.5

87.0 hours

Drafting Technical Electives:

Students must get approval from their advisor and select from this list of Drafting Technical Electives.

DRAF1224	Basic Land Desktop	5.0
DRAF2190	Construction For Americans with Disabilities	3.0
DRAF2140	Building Utility Design	5.0
DRAF2160	Structural Design w/Revit Structure	5.0
DRAF2999	Individual Special Projects	3.0
DRAF2901	Cooperative Experience Drafting I	3.0
DRAF2902	Cooperative Experience Drafting II	3.0

9.0 hours

General Education Requirements:

Contact your program advisor to select general education course/s from each category which will meet your program's graduation requirements. See page 16 for complete list.

(One class from each area below; no two classes from the same area).

Oral Communications	4.5
Written Communications	4.5
Mathematics	
MATH1100 Intermediate Algebra	4.5
Science	
PHYS1150 Descriptive Physics	6.0
Social Science	
ECON2120 Microeconomics	4.5

24.0 hours

