Computer-Aided Drafting & Design

Program Requirements Search Courses

If you can draw well, enjoy detailed work, and have a good visual eye, then take a look at drafting. Drafters are a cornerstone of design teams and work closely with engineers, designers, planners, and architects.

Drafters prepare technical drawings and plans used by production and construction workers to build everything — from automotive to aerospace, houses to high-rise buildings, and oil/gas piping to complex chemical plants. They typically perform their work in an office environment.

The Drafting Technology Program provides training experience in computer-aided drafting. The Associate of Applied Science Degree prepares students for entrance into the drafting profession confident of having received a strong foundation in drafting disciplines and skills.

NOTE: Students planning to transfer should see a counselor or a faculty advisor for transferable course substitutions.

What will I learn?

All manufacturing industries, research and development organizations, and design divisions of major corporations use drafters in the preparation of various stages of formal drawings. Typically, companies that hire engineers, architects or designers have a need for people skilled in drafting. The Computer-Aided Drafting Technology Program at Lee College prepares a person for an entry-level position as a junior drafter, drafter trainee, or drafter using computer aided drafting (CAD). The supportive technical course work in manufacturing, materials, science, mathematics and writing will aid students in continuing to advance their careers and assist in strengthening the background of those desiring to continue their education.

What can I do with this course of study?

Drafters work with computer-aided design and drafting systems to prepare drawings, but also need the knowledge of manual drafting and sketching. The most common types of drafters are architectural, civil, and mechanical. Our region is experiencing a surge of job openings for drafters.

Degree and Certificates

Associate of Applied Science Degree

Computer-Aided Drafting and Design Technology (AAS)Degree Plan

Semester 1

- DFTG 1405 - Technical Drafting
- DFTG 1409 - Basic Computer-Aided Drafting
- DFTG 2417 - Descriptive Geometry
• Drafting Elective

Semester 2

• DFTG 2419 - Intermediate Computer-Aided Drafting
• SBS/HIST/GOVT PS ♦
• ENGL 1301Ω - English Composition I ♦
• Creative Arts/Language, Philosophy and Culture ♦

Semester 3

• DFTG 2432 - Advanced Computer-Aided Drafting
• Drafting Elective
• Drafting Elective
• SPCH - Oral Communication ♦

Semester 4

• Drafting Elective
• Drafting Elective
• Life and Physical Sciences ♦
• DFTG 2486 - Internship - Drafting and Design Technology/Technician, General #
• DFTG 1433 - Mechanical Drafting #
• DFTG 2423 - Pipe Drafting #

*Students must complete a minimum of 60 hours to be awarded the Associate of Applied Science degree in CADD Engineering Technology.

# Students should plan to take the capstone course in their last semester and should speak with their advisor prior to registering for the final semester.

♦ Core curriculum course.

Electives for CADD Degree:

• DFTG 2408Ω - Instrumentation Drafting
• DFTG 2407Ω - Electrical Drafting
• CNBT 1442 - Building Codes and Inspections
• CNBT 1411 - Construction Methods and Materials I
• DFTG 1417 - Architectural Drafting-Residential
• DFTG 2428 - Architectural Drafting-Commercial
• DFTG 2430 - Civil Drafting
• DFTG 1433 - Mechanical Drafting
• DFTG 2435 - Advanced Technologies in Mechanical Design and Drafting
• DFTG 2423 - Pipe Drafting
• MCHN 1438 - Basic Machine Shop I

The following two certificate exit points allow students to seek employment after a concentrated drafting program.

(First semester courses may not be substituted in the Computer-Aided Drafting and Design).
Contact Info.

Victor Martinez
FT Faculty - Drafting
vmartinez@lee.edu
281.425.6491

Joseph Queyquep
FT Faculty - Drafting
281.425.6566
jqueyquep@lee.edu

Tammy Gross
281.425.6404
tgross@lee.edu

Janet Rangel
(Lee College Education Center – South Liberty County)
jrangel@lee.edu