



Computer-Aided Drafting & Design

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.

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.



ASSOCIATE OF APPLIED SCIENCE - DT2 COMPUTER AIDED-DRAFTING AND DESIGN TECHNOLOGY

Foundations: These are the courses students need in order to progress in their career/college pathway, as they either provide a certificate or lay the groundwork for moving to the next set of courses.

Course	Course Title	Counts Toward Cert.
DFTG 1405	Technical Drafting	TP1, DS1, CMT1, MET1
DFTG 1409	Basic CAD	TP1, DS1, CMT1, MET1
DFTG 2417	Descriptive Geom	TP1, DS1, CMT1, MET1
DFTG 2419	Intermediate CAD	TP1, DS1, CMT1, MET1

Knowledge Building: These courses further the students' knowledge in the area of study and increase their preparation for the degree completion.

Course	Course Title	Counts Toward Cert.
DFTG 2432	Advanced CAD	DS1, MET1

*Select two additional electives to obtain the DS1 Certificate: CNBT 1411, CNBT 1442, DFTG 1417, DFTG 2428, DFTG 1430. Choose according to guided electives track selected for the AAS.

Guided Elective
Guided Elective
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Guided Elective
Guided Elective

DFTG 2486	or Internship
DFTG 1433	or Mechanical Drafting
DFTG 2423	Pipe Drafting
ENGL 1301	English Composition 1

Completion: These are the courses the student needs in order to complete the degree plan and prepare to enter the workforce.

Course	Course Title
Creative Arts	Suggested: ARCH 1311, HUMA 1301, SPAN 2311. /LPC Options: Any CA/LPC course
SBS/HIST/ GOVT PS	Suggested: ECON 2301, PSYC 2301, SOCI 1301 Options: Any SBS/HIST/GOVT PS core course.

Life and Physical Sciences	Suggested: BIOL 1406, BIOL 1407, GEOL 1403, GEOL 1404. Options: Any Life and Physical Sciences core course.
SPCH	Suggested: SPCH 1321. Options any SPCH course

Guided Elective course: As part of the AAS in CADD, students have the ability to obtain certificates along the way. For the guided electives, students may take any of the following elective courses. However, to obtain an MET1 or CMT1, certificate student must take the courses designated.

MET1 - MECHANICAL TECHNOLOGY CERTIFICATE

Course	Course Title	Counts Toward Cert.
DFTG 1433	Mechanical Drafting	DS1, MET1
DFTG 2435	Advanced Tech. in MD & D	DS1, MET1
MCHN 1438	Basic Machine Shop 1	DS1, MET1
DFTG 2407	Electrical Drafting	DS1
DFTG 2408	Instrumentation Drafting	DS1

CMT1 - CERT. OF COMPLETION - ARCHITECTURAL CONST & BLDG TECH.

Foundations: These are the courses students need in order to progress in their career/college pathway, as they either provide a certificate or lay the groundwork for moving to the next set of courses.

Course	Course Title	Counts Toward Cert.
DFTG 1405	Technical Drafting	CMT1
DFTG 1409	Basic CAD	CMT1
DFTG 2417	Descriptive Geometry	CMT1
DFTG 2419	Intermediate CAD	CMT1

Knowledge Building: These courses further the students' knowledge in the area of study and increase their preparation for the degree completion.

Course	Course Title	Counts Toward Cert.
CNBT 1411	Const. Methods and Matls 1	CMT1
CNBT 1442	Bldg Codes and Inspections	CMT1
DFTG 1417	Architectl Drtg - Residential	CMT1
DFTG 2428	Architectl Drtg- Commercial	CMT1
DFTG 1430	Civil Drafting	CMT1

DS1: CERTIFICATE OF COMPLETION - CADD TECHNOLOGY

Foundations: These are the courses students need in order to progress in their career/college pathway, as they either provide a certificate or lay the groundwork for moving to the next set of courses.

Course	Course Title	Counts Toward Cert.
DFTG 1405	Technical Drafting	DS1
DFTG 1409	Basic CAD	DS1
DFTG 2417	Descriptive Geom	DS1
DFTG 2419	Intermediate CAD	DS1

Knowledge Building: These courses further the students' knowledge in the area of study and assist in completing their DS1 certificate.

Course	Course Title	Counts Toward Cert.
DFTG 2432	Advanced CAD	DS1

Completion: To complete the DS1 certificate, select any two electives from the following list:

Course	Course Title	Counts Toward Cert.
DFTG 1433	Mechanical Drafting	DS1
DFTG 2435	Advanced Tech in Mech Design & Drft	DS1
MCHN 1438	Basic Machine Shop 1	DS1
DFTG 2407	Electrical Drafting	DS1
DFTG 2408	Instrumentation Drafting	DS1
CNBT 1411	Construction Methods and Materials 1	DS1
CNBT 1442	Building Codes and Inspections	DS1
DFTG 1417	Architectural Drafting - Residential	DS1
DFTG 2428	Architectural Drafting - Commercial	DS1
DFTG 1430	Civil Drafting	DS1

MET1: CERTIFICATE OF COMPLETION - MECHANICAL TECHNOLOGY

Foundations: These are the courses students need in order to progress in their career/college pathway, as they either provide a certificate or lay the groundwork for moving to the next set of courses.

Course	Course Title	Counts Toward Certificate
DFTG 1405	Technical Drafting	MET1
DFTG 1409	Basic CAD	MET1
DFTG 2419	Intermediate CAD	MET1

Knowledge Building: These courses further the students' knowledge in the area of study and increase their preparation for the degree completion.

Course	Course Title	Counts Toward Certificate
MCHN 1438	Basic Machine Shop 1	MET1
DFTG 1433	Mechanical Drafting	MET1
DFTG 2432	Advanced CAD	MET1
DFTG 2435	Advanced Tech in Mech Desg and Drft	MET1

TP1: CERTIFICATE OF COMPLETION - CADD

Foundations: These are the courses students need in order to progress in their career/college pathway, as they either provide a certificate or lay the groundwork for AAS Degree in CADD.

Course	Course Title	Counts Toward Certificate
DFTG 1405	Technical Drafting	TP1
DFTG 1409	Basic CAD	TP1
DFTG 2417	Descriptive Geometry	TP1
DFTG 2419	Intermediate CAD	TP1

PIED1: CERT OF COMPLETION - PROCESS INSTRUMENTATION & ELECTRICAL DESIGN

Foundations: These are the courses students need in order to progress in their career/college pathway, as they lay the groundwork for moving to the next set of courses.

Course	Course Title	Counts Toward Certificate
DFTG 1405	Technical Drafting	PIED1
DFTG 1409	Basic CAD	PIED1
IEIR 1302	Intro to Direct Electrical Circuits	PIED1
INTC 1312	Instrumentation & Safety	PIED1

Knowledge Building: These courses further the students' knowledge in the area of study and complete their certificate.

Course	Course Title	Counts Toward Certificate
DFTG 2419	Intermediate CAD	PIED1
DFTG 2408	Instrumentation Drafting	PIED1
DFTG 2407	Electrical Drafting	PIED1
INTC 1343	App of Industrial Auto Control	PIED1