



SCIENCE, TECHNOLOGY
ENGINEERING & MATHEMATICS

DRAFTING & DESIGN ENGINEERING TECHNOLOGY

A.A.S. DEGREE/CERTIFICATE



ACC
ALVIN COMMUNITY COLLEGE

Explore the World of Engineering Drafting and Design

The Drafting & Design Engineering Technology program implements a variety of disciplines and software that allows students to express their personal skills and ability levels to provide the student the opportunity to succeed. Students compile portfolios of their drawings to present to employers, and they can complete an internship for real-world experience. The innovative classroom environment is equipped with some of the latest computers, software, 3D printers and design equipment. Students will have hands-on experiences with developmentally appropriate activities that allow them to exercise creative design skills.

Career Opportunities

Annual salaries can be as high as \$119,000 and as low as \$31,000, the majority of Drafting Engineer salaries currently range between \$39,000 (25th percentile) to \$53,000 (75th percentile) with top earners (90th percentile) making \$62,000 annually across the United States.

ACC Drafting and Design Engineering Technology graduates have close to 100% job placement rate. Many students find employment prior to graduation.

What Will I Study?

The ACC Drafting & Design Engineering Technology program provides extensive hands-on training. Courses within the program include basic principles of engineering drafting and design in piping, mechanical, architectural, civil and structural design. This well-rounded education provides students with many opportunities and the necessary qualifications as entry-level designers. Completing training in design and drafting could teach you to produce the plans, guidelines and diagrams used for CAD across many industries.

For More Information:

Website: www.alvincollege.edu/industrial-design

Phone: 281.756.3784

Email: idt@alvincollege.edu

Your College  **Right Now**

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ASSOCIATE OF APPLIED SCIENCE DEGREE - 60 CREDIT HOURS

FIRST YEAR - FIRST SEMESTER	CREDITS
DFTG 1305 - Introduction to Technical Drawing	3
DFTG 1309 - Basic Computer-Aided Drafting	3
DFTG 1325 - Blueprint Reading and Sketching	3
+MATH 1332 - Quantitative Reasoning	3
SECOND SEMESTER	
DFTG 1333 - Mechanical Drafting	3
DFTG 1317 Architectural Drafting - Residential	3
DFTG 1330 - Civil Drafting	3
+ENGL 1301 - Composition I	3
THIRD SEMESTER	
DFTG 2317 - Descriptive Geometry	3
DFTG 2319 - Intermediate Computer-Aided Drafting	3
+Social & Behavioral Sciences Select from Social & Behavioral Sciences Core Curriculum	3
SECOND YEAR - FIRST SEMESTER	
ARCE 1352 - Structural Drafting	3
+Select from Creative Arts Core Curriculum or +Select from Language, Philosophy & Culture Core Curriculum	3
DFTG 1345 - Parametric Modeling and Design	3
DFTG 2323 - Pipe Drafting	3
DFTG 2328 - Architectural Drafting - Commercial	3
SECOND SEMESTER	
DFTG 2345 - Advanced Pipe Drafting	3
DFTG 2332 - Advanced Computer-Aided Drafting	3
*DFTG 2338 or Final Project - Advanced Drafting or *DFTG 2381 Co-op Education Drafting & Design Tech General	3
+SPCH 1315 - Public Speaking or SPCH 1318 - Interpersonal Communication or SPCH 2335 - Argumentation & Debate	3
CREDIT HOURS	60

CERTIFICATE II - 48 CREDIT HOURS

FIRST YEAR - FIRST SEMESTER	CREDITS
DFTG 1305 - Introduction to Technical Drawing	3
DFTG 1309 - Basic Computer-Aided Drafting	3
DFTG 1325 - Blueprint Reading and Sketching	3
+MATH 1332 - Quantitative Reasoning	3
SECOND SEMESTER	
DFTG 1333 - Mechanical Drafting	3
DFTG 1317 Architectural Drafting - Residential	3
DFTG 1330 - Civil Drafting	3
THIRD SEMESTER	
DFTG 2317 - Descriptive Geometry	3
DFTG 2319 - Intermediate Computer-Aided Drafting	3
SECOND YEAR - FIRST SEMESTER	
ARCE 1352 - Structural Drafting	3
DFTG 1345 - Parametric Modeling and Design	3
DFTG 2323 - Pipe Drafting	3
DFTG 2328 - Architectural Drafting - Commercial	3
SECOND SEMESTER	
DFTG 2345 - Advanced Pipe Drafting	3
DFTG 2332 - Advanced Computer-Aided Drafting	3
*DFTG 2338 or Final Project - Advanced Drafting or *DFTG 2381 Co-op Education Drafting & Design Tech General	3
CREDIT HOURS	48

+ Denotes core requirement. Speak with Department Chair or Academic Advisor for proper course selection.

* Capstone Course

CERTIFICATE I - 24 CREDIT HOURS

FIRST YEAR - FIRST SEMESTER	CREDITS
DFTG 1305 - Introduction to Technical Drawing	3
DFTG 1309 - Basic Computer-Aided Drafting	3
DFTG 1325 - Blueprint Reading and Sketching	3
SECOND SEMESTER	
DFTG 1333 - Mechanical Drafting	3
DFTG 1317 Architectural Drafting - Residential	3
DFTG 1330 - Civil Drafting	3
THIRD SEMESTER	
DFTG 2317 - Descriptive Geometry	3
DFTG 2319 - Intermediate Computer-Aided Drafting	3
CREDIT HOURS	24

*PROGRAM COSTS

Approximate costs including tuition and fees for the **A.A.S. Degree** program are \$4,200 for in-district students, \$6,960 for those out-of-district, and \$9,840 for non-residents.

Yearly costs including tuition and fees for the **Certificate II** program are approximately \$2,200 for in-district students, \$3,600 for those out-of-district, and \$5,000 for non-residents.

Approximate costs including tuition and fees for the **Certificate I** program are \$1,200 for in-district students, \$1,900 for those out-of-district, and \$2,600 for non-residents.

**Alvin Community College may change tuition rates and other fees without notice or when directed by the Board of Regents.*

Alvin Community College is an equal opportunity institution. If you have a disability and need assistance or require special accommodations contact Student Accessibility Services at 281-756-3533 or ods@alvincollege.edu.