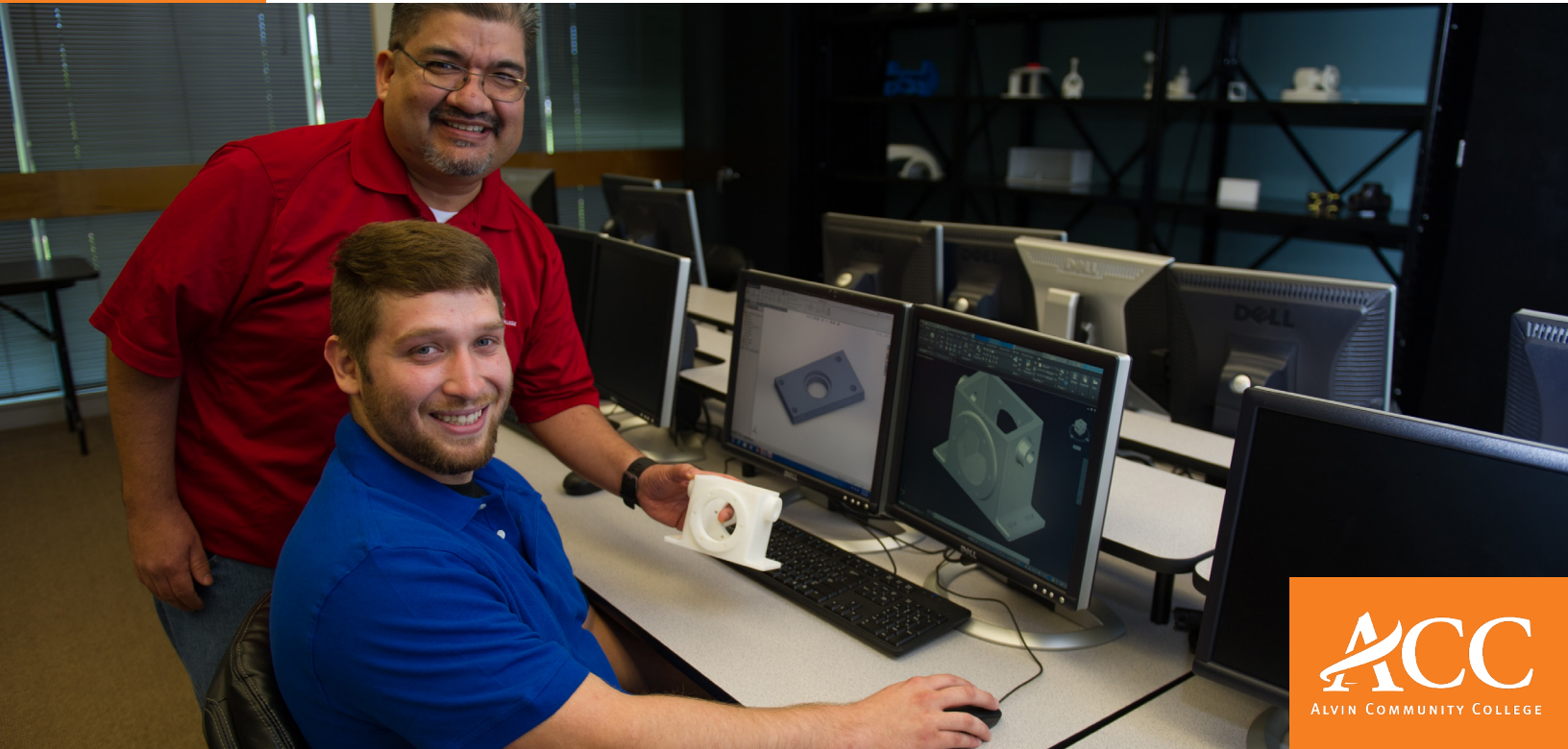




SCIENCE, TECHNOLOGY,
ENGINEERING & MATHEMATICS

INDUSTRIAL DESIGN TECHNOLOGY

A.A.S. DEGREE/CERTIFICATE



Explore the World of Engineering Drafting and Design

Plans for every product, building, or process begin with drawings and models created using the techniques and principles taught in drafting courses. The ACC Industrial Design Technology program provides extensive hands-on training in the basic principles of engineering drafting and design. Specialized courses will train you in advanced piping and mechanical design. In this program, you'll not only learn to draw plans on paper, you will also learn how to use computer-assisted drafting programs (CADD). CADD technology allows you to add detail and quickly make revisions to your design plans.

Career Opportunities

Alvin community college industrial design technology graduates have close to 100% job placement rate. Many students find employment prior to graduation.

Types of Jobs

- Mechanical Designer
- Piping Designer
- Civil Drafting
- CADD Operator

This well-rounded education provides you with the necessary qualifications to begin a career as an entry-level designer.

You will excel in Industrial Design if you excel at and have an interest in:

- Problem solving and critical thinking
- Manual dexterity
- Artistic design
- Technical drawing skill
- Craftsmanship
- Computing skills
- Self-discipline
- Conceptual vision

What Will I Study?

Students may choose a general Industrial Design Technology degree to study the various disciplines that ACC has to offer. Also available are specialization degrees in Industrial Design Technology for piping and mechanical design.

For More Information:

Website: www.alvincollege.edu/industrial-design-technology

Phone: 281.756.3784

Email: idt@alvincollege.edu

Your College  **Right Now**

INDUSTRIAL DESIGN TECHNOLOGY

Associate of Applied Science - 60 credit hours

FIRST YEAR - FIRST SEMESTER	CREDITS
DFTG 1305 - Technical Drafting	3
DFTG 1409 - Basic Computer-Aided Drafting	4
+ENGL 1301 - Composition I	3
POFI 1301 - Computer Applications I	3
SECOND SEMESTER	
DFTG 2419 - Intermediate Computer-Aided Drafting	4
DFTG 2440 - Solid Modeling & Design	4
DFTG 2423 - Pipe Drafting or DFTG 1445 - Parametric Modeling & Design	4
+MATH 1314 - College Algebra	3
THIRD SEMESTER	
*DFTG 2445 - Advanced Pipe Drafting or DFTG 1433 - Mechanical Drafting	4
TECM 1317 - Technical Trigonometry	3
SECOND YEAR - FIRST SEMESTER	
ARCE 1452 - Structural Drafting or DFTG 2435 - Advanced Technologies in Mechanical Drafting & Design	4
DFTG 2430 - Civil Drafting or DFTG 2450 - Geometric Dimensioning & Tolerancing	4
ENTC 1423 - Strength of Materials	4
SECOND SEMESTER	
+Select from Creative Arts Core Curriculum or +Select from Language, Philosophy & Culture Core Curriculum	3
DFTG 2457 - Advanced Tech Pipe Design & Drafting or *DFTG 2406 - Machine Design	4
+Select from Social & Behavioral Sciences Core Curriculum	3
+SPCH 1315 - Public Speaking or SPCH 1318 - Interpersonal Communication or SPCH 2335 - Argumentation & Debate	3
INDUSTRIAL DESIGN TECHNOLOGY (A.A.S.) DEGREE	60

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

* Capstone Course

INDUSTRIAL DESIGN TECHNOLOGY

Certificate - 30 credit hours

FIRST YEAR - FIRST SEMESTER	CREDITS
DFTG 1305 - Technical Drafting	3
DFTG 1409 - Basic Computer-Aided Drafting	4
POFI 1301 - Computer Applications I	3
SECOND SEMESTER	
DFTG 1445 - Parametric Modeling & Design or DFTG 2423 - Pipe Drafting	4
DFTG 2419 - Intermediate Computer-Aided Drafting	4
DFTG 2440 - Solid Modeling & Design	4
THIRD SEMESTER	
^DFTG Specialization - Select from Mechanical, Piping or General	8
INDUSTRIAL DESIGN TECHNOLOGY CERTIFICATE	30

CADD OPERATOR

Certificate - 15 credit hours

FIRST YEAR - FIRST SEMESTER	CREDITS
DFTG 1409 - Basic Computer-Aided Drafting	4
POFI 1301 - Computer Applications I	3
SECOND SEMESTER	
DFTG 2419 - Intermediate Computer-Aided Drafting	4
DFTG 2440 - Solid Modeling & Design	4
CADD OPERATOR CERTIFICATE	15

*PROGRAM COST

Approximate costs including tuition and fees for the Degree program are \$4,200 for in-district students, \$6,960 for those out-of-district, and \$9,840 for non-residents. Additional fees for books and supplies are approximately \$828.

Approximate costs including tuition and fees for the Certificate program are \$2,200 for in-district students, \$3,600 for those out-of-district, and \$5,000 for non-residents. Additional fees for books and supplies are approximately \$515.

Approximate costs including tuition and fees for the CADD Operator Certificate 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 the Office of Disability Services at 281-756-3533 or ods@alvincollege.edu.