

# MECHANICAL DESIGN TECHNOLOGY AAS



A Program Overview of the Energy, Manufacturing & Construction Area of Study

Updated as of May 2018



The mechanical design technology associate of applied science degree program prepares graduates for entry-level careers as engineering design technologist. Courses within the program include technical design applications, computer-aided design software and customization, solid modeling design, applied strength of materials, statics, technical specialty courses, and general academic courses.

The mechanical design technology associate of applied science degree is awarded for successful completion of the 60 semester credit hours required in degree plans. Students specialize in Mechanical Design Technology Design. Students desiring a less comprehensive program may consider the computer-aided design operator/drafting certificate. This certificate program includes 30 semester credit hours of required technical courses.

Graduates of the mechanical design technology associate of applied science degree possess the technical skills and knowledge to perform essential design layout, prepare supporting documentation, and create finished engineering documentation for production in the engineering or manufacturing industries. A wide variety of employment opportunities are available to graduates.

## Programs At-A-Glance

### Mechanical Design Technology AAS

Available at LSC-CyFair and LSC-North Harris

[LoneStar.edu/Mechanical-Engineering-Technology-AAS](http://LoneStar.edu/Mechanical-Engineering-Technology-AAS)

<sup>1</sup> **Median Wage:** \$61,994

### Computer-Aided Design Operator/Drafting Certificate, Mechanical, Manufacturing, Product Design Discipline

Available at LSC-CyFair and LSC-North Harris

[LoneStar.edu/Computer-Aided-Operator-Certificate-Track-2](http://LoneStar.edu/Computer-Aided-Operator-Certificate-Track-2)

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<sup>1</sup> **Wage Data** is based on annual salaries from Bureau of Labor Statistics, U.S. Department of Labor, Occupational Employment Statistics, 2016, [www.bls.gov/oes](http://www.bls.gov/oes).

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# MECHANICAL DESIGN TECHNOLOGY AAS



## Non-Credit Certificate

**AutoCAD  
Draftsman  
Certification**

## Certificate II 30 Credits

Technical Drafting  
Basic Computer-Aided Drafting  
Technical Electives (4)  
Intermediate  
Computer-Aided Drafting  
Solid Modeling & Design  
Advanced Tech  
Mechanical Design  
Co-op Engineering Tech Technician OR  
Final Project - Advanced Drafting

## AAS Degree 60 Credits

Manufacturing Materials &  
Processes  
College Algebra  
Composition & Rhetoric  
Machine Drafting  
Trigonometry  
Statics  
Humanities/  
Fine Arts Elective  
Social/Behavioral Science  
Speech Elective  
Strength of Materials

## Corporate College

SolidWorks  
Professional  
development  
opportunities  
are available  
for additional  
training and  
licensure.



Representative career titles and job  
positions for this program plan include:

- **CAD Designer  
(Computer Aided Design Designer)**
- **Mechanical Designer<sup>2</sup>**

<sup>1</sup>Median Wage: \$61,994

<sup>1</sup>Wage Data is based on annual salaries from Bureau of Labor  
Statistics, U.S. Department of Labor, Occupational Employment  
Statistics, 2016, [www.bls.gov/oes](http://www.bls.gov/oes).

<sup>2</sup>Position titles vary by employer and location.

## Complete your **Mechanical Design Technology AAS** in 2 years!

For more information on gainful employment,  
visit [LoneStar.edu/GainfulEmployment](http://LoneStar.edu/GainfulEmployment).

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