

DRAFTING, TECHNICAL DRAFTING & DESIGN

Campus Location

Broken Arrow Campus

Occupational Focus

Drafting is the process of taking an idea from concept to product using lines and a universal set of symbols. Advancing technologies have not only brought exciting changes to the field of drafting, but also broadened the career choices within it. In this hands-on area of study, you will get an overview of various drafting occupations and be introduced to basic hand- or board-drawing tools and techniques, as well as the math skills related to drafting. Under the guidance of an experienced instructor, you will cover geometric construction and multiple-view drawings before moving into computer-aided drafting using state-of-the-art software. Additionally, you will explore the concepts of dimensioning and tolerancing as a foundation for Technical Drafting and Design. College credit is available should you elect to pursue an associate degree and beyond in this field of exciting and challenging career choices.

For information concerning working conditions, physical requirements, employment and job outlook please refer to the 2008-09 Occupational Outlook Handbook (OOH) at <http://www.bls.gov/oco/>.

Who Can Attend?

High school students
Adults

Prerequisite(s)

None

Scheduling Information

One to two year program beginning in August
Check with Admissions Office at 918.828.5260 for start dates.

Three hours daily

--Morning session - 7:55 - 10:55 am

--Afternoon session - 11:55 - 2:55 pm

Career Majors

CAD Architectural Drafter - 645 Hours*

This career major will introduce students to the skills required as a CAD Architectural Drafter.

CAD Technician Civil - 840 Hours*

This career major will introduce students to the skills required as a CAD Technician Civil.

CAD Technician Pipe Design - 840 Hours*

This career major will introduce students to the skills required as a CAD Technician Pipe Design.

CAD Technician Architectural - 855 Hours*

This career major will introduce students to the skills required as a CAD Technician Architectural.

CAD Drafter - 885 Hours*

This major prepares students for a career in a CAD field or for advancing to a college or university to complete a higher degree. Students learn to convert ideas and specifications into working drawings by utilizing both manual sketching and parametric solid modeling methods that meet ANSI (American National Standards Institute) and /or AIA (American Institute of Architecture) drafting standards. Instruction includes drawing and document management, material and equipment specifications and an overview of architectural, civil, engineering, manufacturing and piping design using project-based lab components.

**Career major, courses and hours are subject to change without notice*

Tuition

No charge for high school students within Tulsa Tech District.

Adult - \$2.50/hour*

**Tuition subject to change without notice.*

Books/Supplies

No textbook charge for high school students within Tulsa Tech District.

Adult students can purchase textbooks from bookstore.

Check with the program instructor.

All students will need to purchase a manual Drafting Kit.

Cost at the campus bookstore: \$40-\$50

College Credit

College credit is available for the majority of Tulsa Tech's full-time programs through Rogers State University, Oklahoma State University-IT or Tulsa Community College. Advanced standing credit may also be granted for some of our programs. The number of hours varies depending on the program length, the college granting the credit, and the student's plan of study. Check with your Tulsa Tech counselor for more information.

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Credentials/Industry Certifications

Oklahoma Department of Career and Technology Competency Test. American Drafting and Design Association.

Employment Opportunities

Drafter, Drafter Assistant, Computer-Aided Design Technician, Blueprint Machine Operator, Mechanical Drafter, Pressure Vessel Drafter, Structural Drafter, Sheet Metal Drafter/Detailer, Architectural Drafter, Fixture/Cabinetry Detailer and Process Piping Drafter. Blueprint Operator, Structural Drafter, Architectural Drafter, Pipe/Pressure Vessel Drafter, Machine Detail Drafter, Technical Illustrator and Shop Materials Coordinator

Tulsa-Area Salary

\$15.85 - \$24.55/hour

Financial Aid

Scholarships are available for eligible students. Call 918.828.5280 or email financialaid@tulsatech.org for detailed information.

Application Process

High school students see Tulsa Tech career counselor or sending school counselor.

Adults contact Tulsa Tech Admissions and Enrollment office at 918.828.5260, email admissions@tulsatech.org or check out our website at www.tulsatech.edu.

Courses by Career Majors

CAD Architectural Drafter - 645 Hours*

Fundamentals of Computer Aided Drafting and Design
Drawing and Document Management
Materials and Equipment Specifications
CAD Civil Introduction
Architecture Computer Aided Drafting and Design
Principles of CAD Design
CAD Piping Introduction
Workforce Staging

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Courses by Career Majors

CAD Technician Civil - 840 Hours*

Fundamentals of Computer Aided Drafting and Design
Principles of CAD Design
Drawing and Document Management
Presentation Graphics Animation
Materials and Equipment Specifications
CAD Civil Introduction
CAD Civil Level 1
CAD Civil Level 2
CAD Civil Level 3
Workforce Staging

CAD Technician Pipe Design - 840 Hours*

Fundamentals of Computer Aided Drafting and Design
Drawing and Document Management
Principles of CAD Design
Materials and Equipment Specifications
Presentation Graphics Animation
CAD Piping Introduction
CAD Piping Level 1
CAD Piping Level 2
CAD Piping Level 3
Workforce Staging

CAD Technician Architectural - 855 Hours*

Fundamentals of Computer Aided Drafting and Design
Drawing and Document Management
Principles of CAD Design
Architecture Computer Aided Drafting and Design
Presentation Graphics Animation
CAD Architectural Level 1
CAD Architectural Level 2
CAD Architectural Level 3
Workforce Staging

CAD Drafter - 885 Hours*

Fundamentals of CADD
Drawing & Document Management
Principles of CAD Design
Material & Equipment Specifications
Workforce Staging
CAD Piping Introduction
CAD Civil Introduction
Architecture CADD
Engineering CADD
Manufacturing CADD

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