# ENGINEERING DESIGN GRAPHICS PETRO/ INDUSTRIAL SPECIALTY, ASSOCIATE OF APPLIED SCIENCE



## **Program Information**

All successful projects start with a good plan. For architects, engineering designers, CAD drafters, and builders, that plan comes in the form of working drawings produced by technically talented and well-trained individuals. If you have a desire to express your knowledge through computer-aided design software, San Jacinto College can give you the skills you need to make your way into this exciting field. This degree allows you to pursue careers that strike a satisfying balance between creativity, technical proficiency, and attention to detail. You can make yourself an indispensable asset in a variety of fields, such as architecture, manufacturing, engineering, construction, and the oil and gas industry, with a degree in engineering design graphics.

Central campus offers Engineering Design Graphics foundation courses: DFTG 1305 Introduction to Technical Drawing, DFTG 1409 Basic Computer-Aided Drafting, and DFTG 2317 Descriptive Geometry. Classes will be held in Building 45, the LyondellBasell Center for Petrochemical, Energy, & Technology building. Students can check the online Schedule of Classes for days and times.

The Engineering Design Graphics (EDG) program at San Jacinto College:

- Trains students to translate the ideas of designers, engineers, and architects from rough sketches, design layouts, specifications, and calculations into working drawings, maps, plans, illustrations, and 3D models; and
- Offers students the skills needed to prepare technical drawings and/ or 3D models using Computer Aided Drafting (CAD), design, and 3D modeling software.

Students must select from one of the four areas:

- 1. Architectural/Civil/Structural
- 2. General
- 3. Mechanical
- 4. Petro/Industrial

#### **Career Opportunities**

Growth in Houston's diversified job markets has created employment openings for drafters. Career opportunities for drafters are available in:

- · Architecture;
- · Engineering: Electrical, Instrumentation, Structural, Civil;
- · Manufacturing;
- Oil, Energy, and Petrochemical; and
- · Public Works.

### **Earning Potential**

Drafter. \$56,569<sup>1</sup> per year

Source: texaswages.com (http://texaswages.com), median salary Gulf Coast region, 2023

For more information, students may contact North campus, 281-998-6350, x7765; Central campus, 281-476-1836; and South campus, 281-998-6350, x3587.

#### **Campuses**

Central Campus North Campus South Campus

#### **Information**

Engineering Design Graphics (EDG) is a technical field where engineering data is communicated through drawings and three-dimensional models. Drafters provide support to designers, architects, and all types of engineers, preparing documentation and creating finished drawings for production in the engineering, construction, or manufacturing industries. Drafters translate the ideas of engineers and architects from rough sketches, design layouts, specifications, and calculations into working drawings, maps, plans, illustrations, and 3D models that are used in producing marketable products. They prepare drawings and/or 3D models using computer-aided drafting, design, and 3D modeling software in the fields of mechanical, petrochemical, architectural, civil, and structural engineering.

The EDG department provides several certificate levels and Associate of Applied Science (AAS) degree options. Working with local industry, courses have been clustered into specialty disciplines that provide concentration in specific areas of study. They include: Architectural/Civil/Structural, General, Mechanical, and Petro/Industrial.

Students enrolling into San Jacinto College programs with external learning experiences (i.e., clinical, practicum, externship, cooperative, etc.) will be required to comply with the immunization requirements and policies of the clinical/external learning sites to engage in all clinical/external learning experiences. Vaccination requirements at clinical/external learning sites are implemented pursuant to the independent authority of such facilities and are not mandated by San Jacinto College. Failure to meet the immunization requirements mandated by clinical/external learning sites may limit a student's ability to complete the program and/or may delay the student's graduation date. San Jacinto College does not process exemptions, and students should address potential vaccination exemptions directly with the clinical/external learning site.

Students who wish to pursue a bachelor's degree after graduation from San Jacinto College may want to consider programs at Lamar University. Lamar will accept credit for students with an AAS in Engineering Design Graphics—Petro/Industrial. Interested students may find more information on the Lamar transfer website.

### **Plan of Study**

3DFT-PI

DFTG 1305 Introduction to Technical Drawing DFTG 1409 Basic Computer-Aided Drafting 4 Language, Philosophy, and Culture (Humanities) or Creative Arts (Fine Arts) ENGL 1301 Composition I Credits 13 Second Term DFTG 2317 Descriptive Geometry DFTG 2421 Topographic Drafting 4 Select one of the following: 3 SPCH 1311 Introduction to Speech Communication SPCH 1315 Public Speaking SPCH 1318 Interpersonal Communication SPCH 1319 Business and Professional Speech Credits 14 Summer Year One Term Social and Behavioral Sciences or Government/Political Science or American History Credits 3 Third Term ARCE 1452 Structural Drafting 4 DFTG 2445 Advanced Pipe Drafting 4 DFTG 2445 Advanced Pipe Drafting 4 MATH 1332 Contemporary Mathematics (Quantitative or MATH 1314 Reasoning) or College Algebra Credits 15 Fourth Term DFTG 2408 Instrumentation Drafting 4 DFTG 2408 Instrumentation Drafting 4 DFTG 2457 Advanced Technologies in Pipe Design and Drafting 0r DFTG 2338 Internship-Drafting and Design Technology/ or DFTG 2338 Internship-Drafting and Design Technology/ or Final Project - Advanced Drafting DFTG 2386 Internship-Drafting and Design Technology/ or DFTG 2338 Technician 1 or Final Project - Advanced Drafting Credits 15 Total Credits 60	First Term		Credits
Language, Philosophy, and Culture (Humanities) or Creative Arts (Fine Arts)  ENGL 1301 Composition I 3  Credits 13  Second Term  DFTG 2317 Descriptive Geometry 3  DFTG 2421 Topographic Drafting 4  DFTG 2423 Pipe Drafting 4  Select one of the following: 3  SPCH 1311 Introduction to Speech Communication SPCH 1315 Public Speaking SPCH 1318 Interpersonal Communication SPCH 1321 Business and Professional Speech  Credits 14  Summer Year One Term  Social and Behavioral Sciences or Government/Political 3 Science or American History  Credits 3  Third Term  ARCE 1452 Structural Drafting 4  DFTG 2407 Electrical Drafting 4  DFTG 2407 Electrical Drafting 4  MATH 1332 Contemporary Mathematics (Quantitative 3 or MATH 1314 Reasoning) or College Algebra  Credits 15  Fourth Term  DFTG 2408 Instrumentation Drafting 4  DFTG 2408 Instrumentation Drafting 4  DFTG 2457 Advanced Technologies in Pipe Design and Drafting 0  DFTG 2386 Internship-Drafting and Design Technology/ or DFTG 2388 Internship-Drafting and Design Technology/ or Final Project - Advanced Drafting 0  Credits 15	DFTG 1305	Introduction to Technical Drawing	3
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or DFTG 2338 Technician <sup>1</sup> or Final Project - Advanced Drafting  Credits 15	DFTG 2457	Drafting	4
Credits 15			3
Total Credits 60	-	Credits	15
		Total Credits	60

Capstone Experience: DFTG 2386 Internship-Drafting and Design Technology/Technician or DFTG 2338 Final Project - Advanced Drafting

term in which the last required engineering design graphics courses are completed.

Courses may be applied to earn the Certificate of Technology, then the Level 2 Certificate, and finally the Associate of Applied Science (AAS) degree when the courses are in the same specialty discipline.

Courses **do not** have to be taken in this order unless a course has a prerequisite.

For more detailed information on this program, contact the Department Chair or faculty.

If you do not see your transfer school, please follow the Plan of Study (p. 2). For more information, contact the Department Chair on your campus. Please speak to an advisor at San Jacinto College and the transfer institution to ensure this Transfer Plan is accurate and complete. For a list of all MAPs, students may go to Transfer Plans A-Z (https://publications.sanjac.edu/transfer-plan-maps/). Students may filter for specific universities, disciplines, or degrees, and print individual MAPs.

#### **EDG Petro/Industrial Specialty**

Lamar, EDG-Petro/Industrial, Industrial Tech, BSIT Full-time (https://publications.sanjac.edu/map-lamar-edg-petr-indust-tech-bsft/)

Lamar, EDG-Petro/Industrial, Industrial Tech, BSIT Part-time (https://publications.sanjac.edu/map-lamar-edg-petr-indust-tech-bspt/)

The course selected to satisfy the Capstone Experience (DFTG 2386 Internship-Drafting and Design Technology/Technician or DFTG 2338 Final Project - Advanced Drafting) can only be taken during, or after, the