



CAREER EDUCATION

Your path to employment

ENGINEERING TECHNOLOGY –CAD & DESIGN DRAFTING

(CAREER PATHWAY CHECKLIST –High School & New Students)



ABOUT THE JOB

Prepare drawings and topographical and relief maps used in civil engineering projects, such as highways, bridges, pipelines, flood control projects, and water and sewerage control systems.

SAMPLE OF JOB TITLES

Civil CAD Designer (Civil Computer Aided Design Designer), Civil CAD Tech (Civil Computer-Aided Design Technician), Civil Drafter, Computer-Aided Design Designer (CAD Designer), Computer-Aided Design Operator (CAD Operator), Computer-Aided Design Technician (CAD Technician), Computer-Aided Drafting and Design Drafter (CADD Drafter), Drafting Technician, Draftsman, Draftsperson

EDUCATION

- *57% of respondents had a Bachelor’s degree
- *29% of respondents had an Associate’s degree
- *5% of respondents had Some college, or no degree

WAGE & EMPLOYMENT TRENDS

Median wages (2017) \$25.42 hourly, \$52,870 annual
Employment (2016) 100,000 employees
Projected growth (2016-2026) Average (5% to 9%)
Projected job openings (2016-2026) 9,500

TECHNOLOGY SKILLS

Technology Skill— a technology requirement frequently included in employer job postings

- Computer aided design CAD software Hot technology** — Autodesk AutoCAD Civil 3D;
- Graphics or photo imaging software** — Intergraph Image Analyst; Landscape modeling software
- Word processing software** — Microsoft Word Hot technology ; Specification software

*all information pulled from O*net Online www.onetonline.org *O*NET database, containing hundreds of standardized and occupation-specific descriptors on almost 1,000 occupations covering the entire U.S. economy. The database, which is available to the public at no cost, is continually updated from input by a broad range of workers in each occupation. WWW.SalarySurfer.CCCCO.edu - provides an estimate on potential wages to be earned after receiving a certificate or degree. / www.CACareerCafe.com is a Virtual Career Center open 24/7 bringing you insights and tools for success.

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Skill Award: 9 units

Certificate, Degree: Total 21 units

FALL SEMESTER 1	CHECK	SPRING SEMESTER 2	CHECK
ENGR 130 Introduction to Robotics 2.0 Units, Transfer, CSU	<input type="checkbox"/>	ENGR 101 Engineering Drafting and Basic Design 3.0 Units, Transfer Credit, CSU, UC, USC	<input type="checkbox"/>
College Courses at GCC			
FALL SEMESTER 1		SPRING SEMESTER 2	
ENGR 111 Computer Aided Design Solidworks I 3.0 Units, Transfer, CSU	<input type="checkbox"/>	ENGR 109 Computer Aided Design AutoCAD I 3.0 Units Prerequisite: ENGR 101 or ARCH 101	<input type="checkbox"/>
FALL SEMESTER 3		SPRING SEMESTER 4	
ENGR 102 Engineering Print Reading for Industry 3.0 Units, Transfer, CSU	<input type="checkbox"/>	ENGR 100 Introduction to Engineering 3.0 Units, Transfer, CSU, UC, USC	<input type="checkbox"/>
ENGR 110 Computer Aided Design AutoCAD II 3.0 Units Prerequisite: ENGR 102	<input type="checkbox"/>	ENGR 112 Computer Aided Design Solidworks II 3.0 Units, Transfer, CSU Prerequisite: ENGR 111	<input type="checkbox"/>
Congrats! Complete the online petition for your CAD & Design Drafting Skill Award Your Skill Award will be mailed to you after reviewing your required courses and grade in the courses (ENGR 101,109,110,111,112) "C" average is required			
ENGR 298 Undergraduate Research In Engineering 3.0 Units, Transfer, CSU	<input type="checkbox"/>	ENGR 299 UNDERGRADUATE RESEARCH INENGINEERING II 3.0 Units, Transfer, CSU Prerequisite: ENGR 298	<input type="checkbox"/>
		Congrats! Complete the online petition for your Engineering Technology Skill Award . Your Skill Award will be mailed to you after reviewing your required courses and grade in the courses (ENGR 130, ENGR 298 & ENGR 299) "C" average is required and <u>Petition for Certificate Form</u> and submit form to the Admissions and Records Office	<input type="checkbox"/>

GRADUATION REQUIREMENTS The requirement for the Associate in Arts/Science degree may be met by completing a Major with a minimum of 18 semester units + GENERAL EDUCATION (GE). A total 60 unit is a requirement for the Associate Degree. **SEE A COUNSELOR TO PREPARE A STUDENT EDUCATIONAL PLAN**

Glendale Community College • www.glendale.edu/CareerEd • 818-240-1000 ext. 5906, 5918, or 5407