



RED ROCKS COMMUNITY COLLEGE
ENGINEERING GRAPHICS TECHNOLOGY
A.A.S. & CERTIFICATES

Are you a precision machinist who also wants to design parts, program machines, and operate 3-D printers?

The Engineering Graphics Technology program at RRCC offers Associate of Applied Science degrees and certificates. This program prepares you for employment as a design drafter. Prerequisites may be waived or challenged for previous educational, occupational or related experience. The curricula are designed to develop communication, leadership, and critical thinking skills. The classroom setting will provide experience in the team approach to problem solving. You will use CADD (Computer-Aided Design Drafting) to form the foundation for drafting standards, conventions, layouts, designs, and details of working drawings and models. Specifications, handbooks, and technical data applicable to engineering graphics are emphasized. Lab fees are assessed.

Learn more: rrcc.edu/engineering-graphics-technology/degrees-and-certificates



The Colorado Helps Advanced Manufacturing Program (CHAMP) is a U.S. Department of Labor TAACCOT-funded grant project serving to increase the attainment of degrees and certifications in manufacturing in high demand fields in Colorado. CHAMP Grant funds were used to purchase new equipment for the Engineering Graphics Technology Department at RRCC to increase learning and training opportunities with additive manufacturing machinery. This fact sheet was created with CHAMP Grant funds to notify RRCC students of the CHAMP-supported Engineering Graphics Technology A.A.S. and Certificates offered at RRCC.

ENGINEERING GRAPHICS MECHANICAL A.A.S. DEGREE REQUIRED COURSES	61 CREDITS
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Intro. to AutoCAD Certificate	6
CAD 202 Computer Aided Drafting 3D	3
CAD 262 3D Printing	3
CAD 256 SolidWorks Basic	6
CAD 257 SolidWorks Intermediate	6
CAD 258 SolidWorks Advanced	6
CAD 289 Capstone Mech I	6
CAD 289 Capstone Mech II	6
PHY 105 Conceptual Physics	4
TOTAL CORE CREDITS	46

GENERAL EDUCATION COURSES	15
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Communication (3 Credits): ENG or COM

Mathematics (3 credits): MAT 107 and above

Credit from any two of the following three areas (6 credits):

Arts & Humanities (3 credits) - ARA, ART, ASL, FRE, GER, HUM, ITA, JPN, LIT, MUS, PHI, RUS, SPA, THE

Natural & Physical Sciences (3 credits) - AST, BIO, CHE, ENV, GEY, MET, NRE, PHY, SCI

Social & Behavioral Sciences (3 credits) - AGR, ANT, ECO, GEO, GIS, HIS, POS, PSY, SOC

Electives from any of the below subjects (3 credits):

CIS 118 | ENG, COM (100 and above) | MAT (100 and above) | AGR, ARA, ART, ASL, FRE, GER, HUM, ITA, JPN, LIT, MUS, PHI, RUS, SPA, THE (100 and above) | AST, BIO, CHE, ENV, GEY, PHY, SCI (100 and above) | ANT, ECO, GEO, GIS, HIS, POS, PSY, SOC (100 and above)

NOTE: Students must earn a "C" or better in all courses to graduate.

ENGINEERING GRAPHICS MECHANICAL CERTIFICATE REQUIRED COURSES	12 CREDITS
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Intro. to AutoCAD Certificate	6
CAD 202 Computer Aided Drafting 3D	3
CAD 262 3D Printing	3



This fact sheet was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The fact sheet was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites, and including, but not limited to accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability or ownership. Red Rocks Community College is committed to diversity in its people and programs. The College is an equal opportunity educational institution and does not discriminate on the basis of disability, race, creed, color, gender, sexual orientation, gender expression, religion, age, national origin, or ancestry or any other category protected by applicable law. The College has designated the Human Resources Director as its Equal Opportunity Employment Officer and Title IX Administrator with the responsibility to coordinate its civil rights compliance activities and grievance procedures. Report all concerns or complaints relating to discrimination or harassment to the Title IX/EO Coordinator(s): Arnie Oudenhoven, Executive Director of HR, Title IX Coordinator, Title VII/Equal Opportunity Coordinator, ADA/Sec 504 Coordinator, 13300 West Sixth Avenue, Lakewood, Co 80228. 303.914.6298, arnie.oudenhoven@rrcc.edu.

**For more information about these programs, contact
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Lakewood Campus | 13300 West Sixth Avenue | Lakewood, CO 80228**