



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.

Revised 03/2017

ENGINEERING GRAPHICS MECHANICAL A.A.S. DEGREE REQUIRED COURSES**61 CREDITS**

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****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**

Intro. to AutoCAD Certificate	6
CAD 202 Computer Aided Drafting 3D	3
CAD 262 3D Printing	3



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For more information about these programs, contact
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