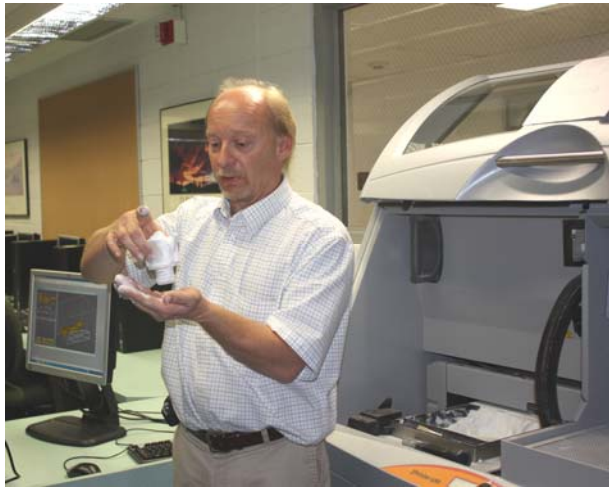


"This program will provide a great start to a mechanical engineering education or open the door to a position in the engineering department of many manufacturers. A design program will be a great asset to our community."

Shane Pritchard, P.E.
Engineer, Oliver Manufacturing



"The Mechanical Graphics and Design programs will give students the skills to work in today's industry."

Tim Austin, Engineer
Lewis Bolt & Nut Company



For more information contact:

Ralph Newby, Faculty



(719) 384-6853
ralph.newby@ojc.edu

Mechanical Graphics & Design



1802 Colorado Ave.
La Junta, CO 81050
719-384-6831 ~ www.ojc.edu
information@ojc.edu



Otero Junior College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. Inquiries should be directed to: Affirmative Action Officer, Otero Junior College, 1802 Colorado Ave. Macdonald Hall Room 221, La Junta, CO 81050 (719) 384-6824

Updated 7/2011

Mechanical Graphics & Design

The Mechanical Graphics and Design certificate program builds foundational design skills for a broad range of industrial careers.



The program provides general mechanical engineering technology fundamentals with emphasis in the design and development of products and machines.

Machinery will be animated for motion analysis, strength calculations will be performed, and the basics of AC & DC electricity will be introduced.

Students will develop strong analytical and problem-solving skills by applying the principles learned in class to hands-on projects and real-world applications.

- Learn the latest 3-D CADD SolidWorks software (industry certification available after completion)
- Learn to design 3-D CADD models
- Create prototypes parts using rapid prototyping technologies
- Learn to use a 3-D printer, CNC mill, CNC router
- Learn the basics of AC & DC electricity

Mechanical Graphics & Design

Fall

CAD 256 SolidWorks Basic.....6
MAT 107 Career Mathematics.....3
(Or any 100+ level math)

Spring

CAD 257 SolidWorks Intermediate6
EIC 105 Basics of AC & DC Electricity.....4

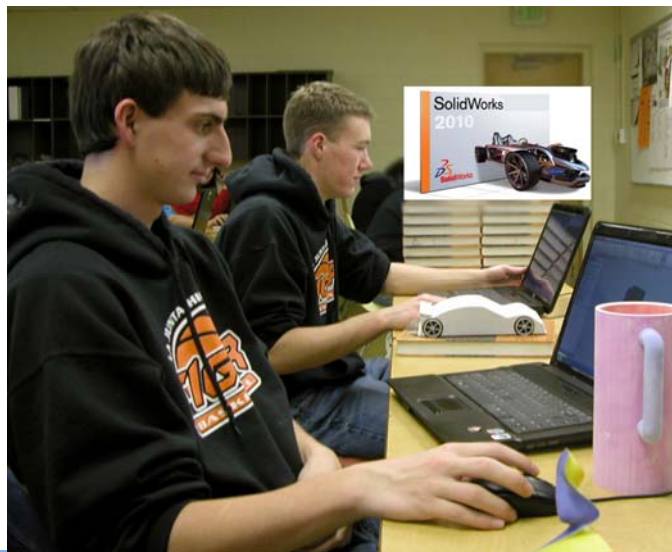
Advanced Mechanical Graphics & Design

Fall

(The above courses listed for the first year plus the courses listed below)
PHY 105 Conceptual Physics4
ENT 133 Intro to Mechanical Design3

Spring

EGT 230 Drafting & Design I.....6
ENT 256 Rapid Product Development.....4



How will I be able to afford the costs involved in going to school?

Paying for educational advancement can be a challenge but there are many resources out there that exist for this very purpose. Some to keep in mind are:

College in Colorado CollegeInColorado.org, offers a one-stop resource to help students, parents and counselors plan, apply and pay for college. www.collegeincolorado.org

FAFSA The FAFSA is a common application for federal loan and grant programs. It is used to determine if you are eligible for federal student financial aid programs. www.fafsa.ed.gov

College Opportunity Fund The College Opportunity Fund (COF) provides a stipend to eligible undergraduate students. The stipend pays a portion of your total in-state tuition when you attend a Colorado public institution or a participating private institution. COF@college-assist.org

www.Scholarships.com: Free college scholarship search and financial aid information.

For more information, contact Janet Carrillo, Director of Financial Aid at 719-384-6834.

Gainful Employment Information

The US Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation". You may access Gainful Employment information for a career in Mechanical Graphics and Design at:

www.ojc.edu/graphic.aspx