"Art without engineering is dreaming. Engineering without art is calculating.”
Steven Roberts

Advising Notes
Here are a few tidbits to keep in mind as you register for Spring 2015:

⇒ Both Chemistry (CHEM 131/131L) and Physics 1 (PHYS 131/131L) are pre-requisites for Materials Science (ENGR 224)
⇒ Beginning Fall 2015, there will be 2 sections of Physics 131 and 1 section of Physics 132 offered in the fall and 2 sections of Physics 131 and 1 section of 132 offered in the spring.
⇒ Students in the MET/AME program should register for STAT 305 instead of STAT 200 to fulfill their Statistics requirement. STAT 305 —Statistics and Quality Control for Engineering — will be offered again in Fall semester 2015.
⇒ Petition/Program Sheets outline the academic requirements of a degree or certificate program. A program sheet functions as a contract between the student, department, and Registrar. Program sheets and curriculum flowcharts are available online from the Engineering web page. (Go to www.coloradomesa.edu/engineering and select “Degree Programs”; then select the appropriate degree program and look for the “Curriculum” heading. Be sure to select the program sheet that corresponds to the Academic Year during which you entered the program—or you may opt to use a more recent program sheet.)

Students from West Middle School took a field trip to the Archuleta Engineering Center in October. They were treated to a number of demonstrations and mini-tutorials from our engineering students and faculty.
Check out this scholarship opportunity!

**Society of Women Engineers Scholarship Information**

The SWE Scholarship Program provides financial assistance to women admitted to accredited baccalaureate or graduate programs, in preparation for careers in engineering, engineering technology and computer science. In 2014, SWE awarded over 230 new and renewed scholarships valued at over $700,000.

SWE provides one application for sophomores through graduate students and one application for freshmen. Applicants complete an application and are considered for all scholarships for which they are eligible.

Applications will be available for the 2015-2016 academic year as follows:

**Sophomores through Graduate Students Application:** December 1, 2014-February 16, 2015

**Freshmen Application:** March 1, 2015 - May 15, 2015

*Note all deadlines are 5:00 p.m. central time. There will be no exceptions to the deadlines.*

Scholarships are typically awarded in May (sophomore, junior, senior and graduate students) and July (freshmen and reentry students) for use during the following academic year. Scholarship payments are made in September. Recipients are announced in September.

More information on eligibility and requirements is available at: [www.swe.org/scholarships](http://www.swe.org/scholarships)

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**Job Opportunities**

**Aerospace Corporation is hiring!**

We're hiring! Aerospace offers both entry level and internship positions at our headquarters location in El Segundo, California, and at our regional site in Chantilly, Virginia.

We are seeking students majoring in science and engineering, electrical engineering, computer science, mechanical engineering, aerospace engineering, information systems, and mathematics. We have a rare collection of the most intelligent people in the field, fully empowered to do their best work. Help us solve the most complex technical challenges. We offer competitive compensation programs, a flexible work schedule, and mentor programs targeted at developing our employees.

For more information, visit [http://www.aerospace.org/careers/new-graduates/](http://www.aerospace.org/careers/new-graduates/)

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**Upcoming CMU Career Services Workshops**

**Interviewing Skills Workshop**
Wednesday, Nov. 5, 4:00 - 5:00, UC 222

**Resume/Cover Letter Workshop**
Thursday, Nov. 13, 3:30 - 4:30, UC 222

**Employment Readiness Boot Camp**
Wednesday, Nov. 19, 4:00 - 6:00, Dominguez Hall, Room 304
Bill McCracken leads Ms. Kliska’s ENGR 125 CAD students on a tour of the AEC machine shop ….

… complete with a little hands-on learning about GD&T.

ENGINEERING CLUB NEWS

Every fall semester the Engineering Club holds its annual officer elections. After the votes were tallied in October, the following officers were elected to serve:

- **President:** Corbin Cooper
- **Vice President:** Morgan Ryan
- **Treasurer:** Ken Banning
- **Project Manager/Secretary:** Aaron Howell
- **CAB/ASG Representative:** Gavin Downey

We are officially registered as car number 52 to compete in the 2015 events of Formula SAE Michigan! Registration for this international event filled up in less than five minutes, and we are excited to participate in our first ever FSAE competition.

On Friday, October 31st we had our first fabrication session with our sponsor All-Metals Welding and Fabrication. Chris Muhr of All-Metals has been a huge help in allowing us to use his space and knowledgeable staff to guide us through the fabrication process of building our Formula Car chassis.

As FSAE Michigan approaches, we are looking for sponsors to support us. For more information please contact project manager, Aaron Howell by email: aaron.howell@colorado.edu, or phone: 970.361.2942.

We are also happy to welcome aboard any individuals to help with marketing, branding, video and photo compilation, editing, engineering, ergonomics and sponsorship. The Engineering Club has weekly meetings, Tuesday at 5pm in Houston Hall, Room 232.
Faculty Advisors
The purpose of a faculty advisor is to assist in the process of degree completion. Students are required to have a faculty advisor's signature on their Program Sheet and other graduation paperwork.

Find Your Advisor
Advisor assignments can be found in MAVzone under the Student Academics tab. Students can view their Academic Profile in the top-center column by selecting the current term in the drop-down box at the bottom of the profile and clicking Go. This will cause the current program of study and advisor(s) to appear. Your Primary Faculty Advisor will be the first name listed. (Note: Dr. Brower is the secondary advisor for all Engineering students. He is the primary advisor only for students in the CU-Boulder BSME degree program.) You can click on the envelope icon by the advisor's name to email your advisor.

Engineering Faculty Advisors
We strongly urge all students to take advantage of the opportunity to plan their course sequence, review potential elective choices, and discuss issues of concern with their Primary Faculty Advisor. Please make an appointment when you need to see your advisor.

Contact information for Engineering Faculty Advisors is shown below:

<table>
<thead>
<tr>
<th>Name</th>
<th>Office</th>
<th>Office Phone</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Scott Bevill</td>
<td>AEC 212</td>
<td>970.248.1459</td>
<td><a href="mailto:sbevill@coloradomesa.edu">sbevill@coloradomesa.edu</a></td>
</tr>
<tr>
<td>Dr. Timothy Brower</td>
<td>AEC 213</td>
<td>970.248.1662</td>
<td><a href="mailto:tbrower@coloradomesa.edu">tbrower@coloradomesa.edu</a></td>
</tr>
<tr>
<td>Dr. Francisco Castro</td>
<td>AEC 215</td>
<td>970.248.1564</td>
<td><a href="mailto:fcastro@coloradomesa.edu">fcastro@coloradomesa.edu</a></td>
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<tr>
<td>Dr. Scott Kessler</td>
<td>AEC 216</td>
<td>970.248.1673</td>
<td><a href="mailto:skessler@coloradomesa.edu">skessler@coloradomesa.edu</a></td>
</tr>
<tr>
<td>Dr. Nathan McNeill</td>
<td>AEC 206</td>
<td>970.248.1623</td>
<td><a href="mailto:nmcnell@coloradomesa.edu">nmcnell@coloradomesa.edu</a></td>
</tr>
<tr>
<td>Dr. Farzad Taghaddosi</td>
<td>AEC 125</td>
<td>970.248.1678</td>
<td><a href="mailto:ftaghaddosi@coloradomesa.edu">ftaghaddosi@coloradomesa.edu</a></td>
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</tbody>
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A Brief Guide to “Engineering Speak”
(Useful for Projects Classes 😊)

<table>
<thead>
<tr>
<th>What is said</th>
<th>What it means</th>
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</thead>
<tbody>
<tr>
<td>A number of different approaches are being tried.</td>
<td>We don't know where we’re going, but we’re moving.</td>
</tr>
<tr>
<td>An extensive report is being prepared on a fresh approach to the problem.</td>
<td>We just hired three guys. We'll let them kick it around for a while.</td>
</tr>
<tr>
<td>Developed after years of intensive research.</td>
<td>It was discovered by accident.</td>
</tr>
<tr>
<td>Modifications are underway to correct certain minor difficulties.</td>
<td>We threw the whole thing out and are starting from scratch.</td>
</tr>
<tr>
<td>Preliminary operational tests were inconclusive.</td>
<td>The darn thing blew up when we threw the switch.</td>
</tr>
<tr>
<td>Test results were extremely gratifying.</td>
<td>It works and, boy, are we surprised!</td>
</tr>
<tr>
<td>The design will be finalized in the next reporting period.</td>
<td>We haven't started this job yet, but we've got to say something.</td>
</tr>
<tr>
<td>The entire concept is unworkable.</td>
<td>The only guy who understood the thing just quit.</td>
</tr>
<tr>
<td>We need close project coordination.</td>
<td>We should have asked someone else. Alternate: Let's spread the responsibility for this.</td>
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</tbody>
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