Get ready for finals with these great tips:

1. Make a finals game plan.
   - Plan out your entire strategy for the next two weeks
   - Make a list
   - Use a calendar

2. Don't cram! Spread your studying out over several days
   - Use the time right before a final to review important information

3. Take a break!
   - Your brain needs some time to recover. Go for a walk,
     Play with dog, get your blood flowing to stimulate the brain!

4. Work with a group
   - Talking through hard problems will make you remember the information better.

5. Use study aids
   - Use Flash Cards, Outline Notes, Study Outside
   - Shake it up for the best results

6. Take care of yourself!
   - Pulling an all-nighter is detrimental and will likely do more harm than good
   - Eat lots of wholesome fruits and veggies-brain food!
   - Drink lots of water
BRAE Drip Irrigation Lab

The BRAE 236 labs and Dr. Styles were able to visit and evaluate the drip irrigation at Bartleson Ranch in Arroyo Grande last week. The ranch was recently donated to Cal Poly. Upon arrival, the class was greeted by the Bartleson family and was able to ask the manager questions about the ranch. They gave the class valuable information on the drip irrigation system, about the lemon trees and the specific spacing per tree. The teams then examined the pump station and looked at the filtration used as well as a chemical injection system.


The first location evaluated was closest hydraulically to the pump, the second location was in the middle of the system and the third location was at the far end of the block. The teams were supplied with graduated cylinders, buckets (catch cans) to test the flow, and pressure gauges of various ranges to test the pressure at each location. The teams were also given a hole punch and goof plugs for the pressure measurements.

Bartleson Ranch uses Netafim Pressure Compensated (PC) emitters. This is important to note because when using PC emitters five different pressure tests need to be performed. The class was split up into three different groups and sent out to each location to perform their respective tests. After each group finished collecting data, we all met together and shared our results so we could compute the global DU of the system back at Cal Poly.

Once we got back to campus, all of the data was put into an Excel spreadsheet and the global DU was calculated. Bartleson Ranch’s **global DU came out to be 0.89**, which is actually quite good. After calculating this value we began to discuss ways the DU could be improved. The group that did testing at Location C indicated they did see some plugged emitters. One way the DU could be improved is by improving the filtration. After discussion, the BRAE236 class sent Mr. Bartleson a report of our results, so he could make changes he deem necessary to his operation.
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**FINALS WEEK**

**Academic Holiday (No School)**

**Academic Holiday (No School)**
April 9-11, 2017
AFA Animal Institute
Applications due Jan. 27
Kansas City, Missouri
www.agfuture.org/AFAAnimal

Executive Panel
Industry Tours
Networking Dinner

Hot Topic Discussions
Career Round-table

July 22-25, 2017
AFA Crop Institute
Applications due April 7th
Raleigh, North Carolina
www.agfuture.org/AFACropScience

Executive Panel
Industry Tours
Networking Dinner

Hot Topic Discussions
Career Round-table

Agriculture Future of America | www.agfuture.org
DECEMBER 7 • 6PM • LAB 4 (O8A-004)

GENERAL MEETING

AGRICULTURAL ENGINEERING SOCIETY

March 2-4, 2017
AFA Technology Institute
Applications due Dec. 2nd
San Antonio, Texas
Held in conjunction with Commodity Classic
www.agfuture.org/AFATechnology

Executive Panel  Hot Topic Discussions
Exhibit Visits  Career Round-table
Networking Dinner

Agriculture Future of America | www.agfuture.org
Winter 2017 BRAE/HNRS 450
Solar Photovoltaic System Engineering
MWF 2:10-3:00 PM Lec, F 11:10 AM -2:00 PM Lab

Art MacCarley, Ph.D., PE., amaccarl@calpoly.edu
and guest lecturers from industry, faculty and NPOs

Theory, design, analysis, installation future technology of solar photovoltaic systems.

For all engineering and science students.

Course topics include the physics of solar energy, solar site planning, electrical and mechanical design, regulatory approval and permit processes, government and utility incentives, financial return-on-investment analysis, component specification and practical installation experience.

The project-based laboratory will involve the students in the installation of a residential or commercial (community service) system and/or an on-campus grid-tie system.

No textbook. Library and web research will be required.

Some individual self-study or skill-building will be required for most students. Considerable time outside of the scheduled laboratory meeting will be required, in particular, two weekends for the project work and one full day for the field trip. **Do not enroll in this course if your schedule does not permit this flexibility.**

Course is open-enrollment at discretion of the student. Basic engineering knowledge and some prior hands-on project experience will be expected.
Week 10

Announcements:

Save the date! Winter Showcase will take place on January 24th from 7-9 PM. This event is a great opportunity to meet EWB team members, talk with professionals from industry, and listen to speakers share their stories about humanitarian work and engineering. Dinner will be provided by Cal Poly's own Real Food Cooperative. Ticket sales will start soon; look out for an email!

Check out our google calendar here!

The Sustainability Task Force is a new group seeking to enhance Cal Poly’s EWB Chapter. Through working on projects related to social, economic, cross-generational and environmental sustainability, we want to ensure that our chapter is fulfilling its purpose of “equipping leaders to solve some of the world’s most pressing challenges”. The STF meets in B22-314 (English Building) from 6-7 PM every Monday.

Project Meetings are every Monday 7pm!
Here are the team room locations:
Note: India will not be meeting this week!
   2-204 - Nicaragua
   20-140 - Thailand
   186-c101 - Malawi
   186-c300 - Local Projects

IMPACT meets every Tuesday at 6:30 pm at one of the Library 2nd floor fishbowls. Come by if you want to make a difference locally by volunteering in SLO!

EWB Thailand is hosting a fundraiser at Blaze Pizza this Tuesday from 5 PM - 10 PM and would love to see everyone there! All you need to do is show this flyer at the register and 20% of the cost will go right to the Thailand team. If you need a ride or can offer one, please fill out this form. Bring your friends and treat yourself to pizza during dead week and support the Thailand team!

EWB Tea Time is every Friday 11-1pm at the 2nd floor of the Library facing the front, near the bookshelves. Come chat and enjoy some tea with President Dan, VP Beth, and the occasional officer!

Opportunities:

Interested in studying abroad? Take a class with Professor Karen Bangs from Industrial and Manufacturing Engineering (IME), in Bilbao, Spain during July of 2017. Karen will be teaching an Operations Management course (Quality Management, Lean Systems, Product & Service Design, Project Management and a few other topics). This course can fulfill a technical elective requirement for you (if you’re ME with general & MfgE concentration, MATE, ENVE, BMED, GENE, COB-IT, MfgE). Contact Karen at krbangs@calpoly.edu, or stop by her office in 192-229. You can also visit Cal Poly International Programs on-line or at their office (http://abroad.calpoly.edu/ or 38-145). Check out the flyers here and here.

Last push until Finals!