

COLLEGE OF ENGINEERING

ELECTRICAL &
COMPUTER ENGINEERING



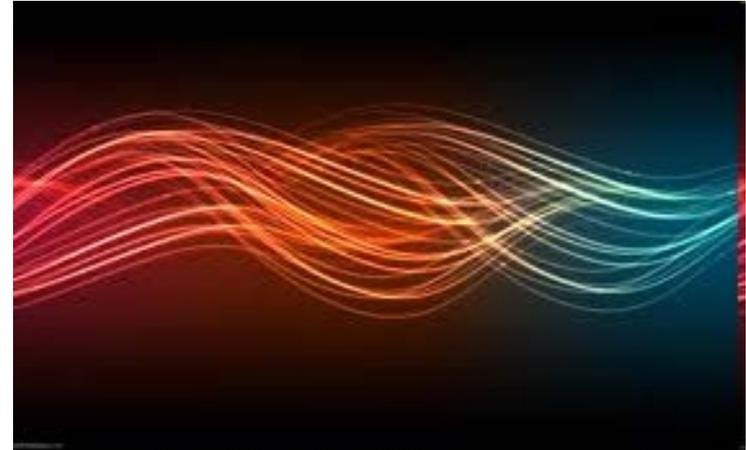
UCDAVIS

CREATING THE FUTURE...

Electrical & Computer Engineering Orientation – Summer 2016

Kate Creveling

The Session



- Overview
 - Majors
- Curriculum Requirements
- Placement
 - Entry Level Writing, Math & Chem, AP credit
- Academic requirements
- Success in Engineering
 - Resources, Advising (holds), and Strategies
- Questions and Answers

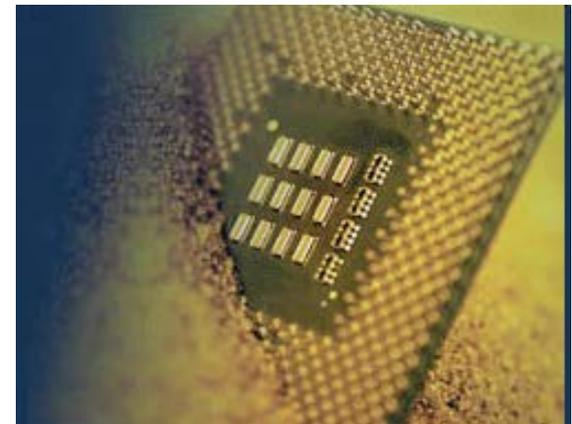
Electrical Engineering

- Transformation of one form of matter into another form of matter in a way that is safe, economical, and environmentally responsible.
- Areas of application
 - Electronic Circuits
 - Digital Electronics
 - Optoelectronics
 - Physical Electronics
 - RF, Micro- and Millimeter Waves
 - Communications, Control, Networking and Signal Processing
- Accredited by ABET



Computer Engineering

- Develop, design, analyze, control, optimize, and/or oversee manufacturing processes that include ...
 - Design and implementation of computer-based systems for various applications
 - Design of hardware as well as software systems.
- Accredited by ABET



Degree Requirements & Placement

Degree Requirements

- Sample schedule
- Prerequisite sheet (CE & EE)
- General Education

College Requirements

- Writing Requirements
 - Lower Division Expository Writing – AP/IB or completion of UWP 1, ENL 3, COM 1-4, or NAS 5
 - Upper Division English Composition – Exam or completion of UWP 101, 102, or 104 series course
 - Lower & Upper Division Writing courses do not count toward General Education completion
- No required classes taken Pass /No Pass
- Catalog rights

General Education

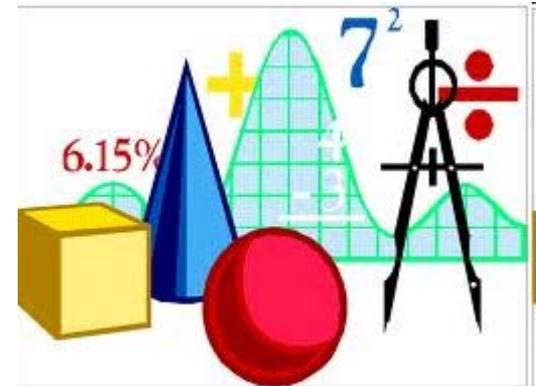
- 32 units of Arts & Humanities and Social Science
- 4 Core Literacies
 - Some fulfilled through degree requirements
- Can not be fulfilled with AP credit
- See page 37 of your student handbook

Placement – Entry Level Writing

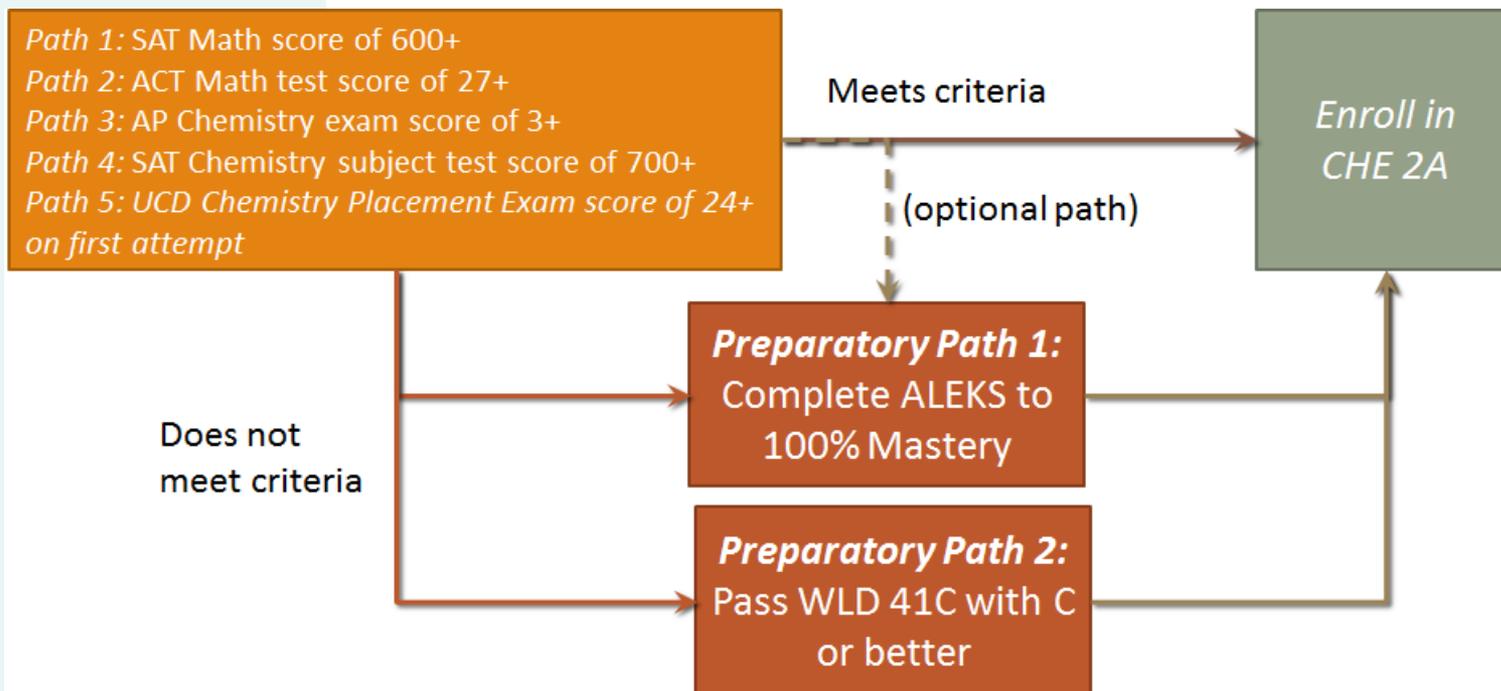
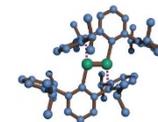
- Satisfy by...
 - SAT writing ≥ 680 , ACT English ≥ 30
 - English AP score ≥ 3 , IB score $\geq 5, 6$
 - College class
 - Passing analytical writing exam
- One shot, no retake
- Didn't pass? - register for the course you placed into:
WLD 57E or UWP 21-23
 - WLD 57 \Rightarrow 3 quarters to pass (C or better)
 - UWP 21-23 \Rightarrow 3 quarters to pass WLD57 **after** completing UWP course(s)
- Next test is Sept 19 @ 8:45 a.m. Peter Rock Hall

Placement – Math

- Pre-calculus Diagnostic Exam
 - Retake? – check website for dates
 - https://www.math.ucdavis.edu/undergrad/math_placement/
 - Math review – self-review, workshops (SASC)
 - Take the course you are placed into
 - Score below 35?
 - Take MAT 12 – **NOT** 16A, 17A



Placement – Chemistry (to take in Winter '17)

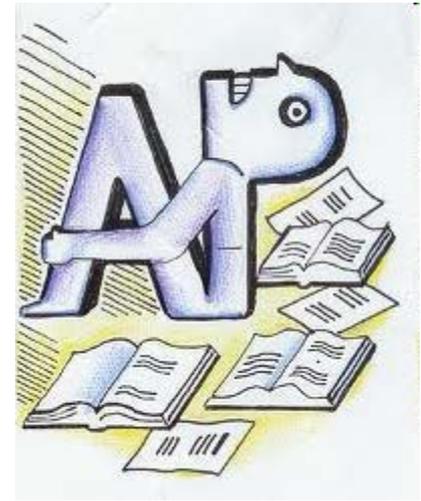


Last day to sign up for ALEKS is August 12th

http://chemistry.ucdavis.edu/undergraduate/chemistry_placement_exam.html

Advanced Placement

- Math
 - Calc AB 4-5, BC 3-4 \Rightarrow credit for MAT21A
 - Calc BC 5 \Rightarrow credit for MAT 21A, MAT21B
- Chem
 - Score of 5 \Rightarrow credit for CHE 2A
- English
 - Score 4 or 5 \Rightarrow credit for ENL 3, UWP 1 \therefore Lower Division comp. satisfied
- Other AP - **CANNOT** count toward GE requirements
- **Can I take these classes if I have AP credit for them?** *See page 38 of Student Handbook*



Registration Priorities

1. Math
2. EEC1
3. Programming (ECS 10 or 30)
4. Entry-level writing requirement/ Lower division writing requirement
5. General Education
6. “Fillers” – for units or exploration
 - ENG 98
 - Freshmen seminars – Teaching Resource Center
 - Introductory classes
 - ENG 1 – Intro to Engineering

Degree Requirement and Placement questions?



Academics

- Quantitative – Minimum Progress
 - 39 units per academic year
 - Average of 13 units/qtr, 12 units min for full-time status
 - Workload classes count toward Minimum Progress, not degree
- Qualitative – Grades
 - Term, Cumulative GPA ≥ 2.000
 - Dismissal = 3 consecutive quarters below 2.0 or GPA below 1.5
- Repeating Classes, only if received “D” or “F”
- Graduation
 - Engineering GPA, cumulative GPA ≥ 2.000

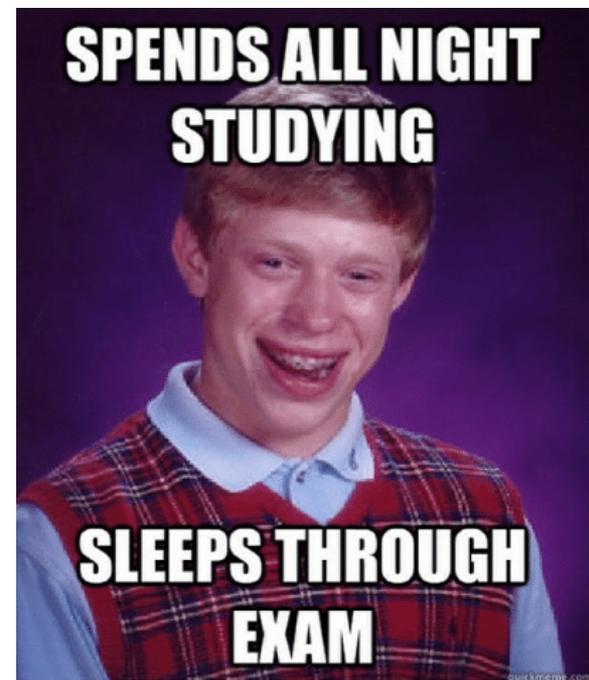
Success in Engineering

- **Be present**
- Develop solid **study skills** early
- Use **resources**
 - Office Hours
 - Tutoring
 - Work in groups
- **Get involved**
 - Balance



Study skills – Strategies

- Time management
 - Weekly calendar
 - Marathon study
 - Study regular place, regular time
 - Use time wisely (e.g. in between class)
 - Be aware of your alertness
- Reading/homework before class
- Review lectures/notes immediately after class
- Review weekly
- Know how you study/learn best



Resources

- Departmental advising
 - Kate Creveling– by appointment or drop-in hours
 - Faculty
 - Office hours, research, career/grad school advice
- Dean's Office advising in 1050 Kemper Hall
- Campus Resources – Financial Aid, Student Disabilities Center, Counseling Center, Internship & Career Center, Student Academic Success Center, Student Health Center, Student Judicial Affairs, Undergraduate Research Center
- Fellow students
 - Peer advising, senior ECE student with 10 office hours/week
 - Engineering clubs (IEEE, CS club)
 - Group work

Mandatory Advising

- College of Engineering places a hold on your registration once a year – why?
- Holds will ***NOT*** affect your registration until the effective date
- You must clear it before the hold effective date
- How?
 - 1) meet with adviser, schedule appointment
(<http://www.ece.ucdavis.edu/auth/advising/appointments/>)
 - 2) prepare a 3-quarter plan before appointment

NO exceptions!

Finding OASIS

The screenshot shows the top navigation bar of the myucdavis website. The 'Academics' dropdown menu is open, listing various options. A large green arrow points from the right towards the 'Student Advising' option, which is highlighted in blue. Other options in the menu include Academic Resources, Academic Advising and Support, Graduate Studies, Graduation and Commencement, Registering for Classes, SmartSite, Student Records, and UC Davis Libraries. The background of the page features a large image of a water tower.

The Updater

Got Gear?

Don't get caught short, tailgating season is almost here! How about picnic blanket? chairs? coolers or even a Aggie grill? What ever it is, the Aggie Pride Outlet has it.

[Learn More »](#)



Aggie Feed

Labor Day Holiday

Financial Aid - Mon Aug 04 2014 9:33:29 AM

Please note the Financial Aid and Scholarships office will be closed on Monday, September 1, for the Labor Day holiday.

Breakfast with the Chancellor

Staff Assembly - Mon Aug 04 2014 9:34:51 AM

We invite staff to submit an application to join Chancellor Katehi and fellow staff members for an informal discussion of topics that impact

[Link](#)

First City Music Festival Passes

Staff Assembly - Mon Aug 04 2014 9:28:42 AM

All current UC Davis staff are eligible to reserve UP TO four, 2-day general admission passes. Passes are made available on a first-come, fi

[Link](#)

Campus web management service moves to IET

Technician - Fri Aug 01 2014 10:06:48 AM

Campus Calendar

Labor Day (university holiday)

Monday, September 1, 2014 (all day)
Where: *No Location ...

Summer Session 2 ends

UNITRANS Schedule

Line:

A

Direction:

To Silo

Stop:

feedback

Home Page

myucdavis

Academics

Finances

Student Life

Resources

Contact an Expert

Colin

Advisor View



Goulding, Colin Joseph

cjgoulding@ucdavis.edu

Level: Undergraduate
Major(s): Biological Sciences (BI, BS)

In good academic standing
Senior (220.00 units completed)
Inactive (Last Active Spring 2011)
Degree Awarded (June 2011)

Home

Academic Record

Advising Record

Degree Worksheets

Forms & Petitions

GPA Charts & Tools

Tabs for features

Messages & Announcements

Welcome,

Dates and Deadlines

The Online Advising Student Information System (OASIS) has been designed to be a central location for you to access tools and information related to academic advising. You can view upcoming important dates, submit forms and petitions, and check your current status, fill out Degree Worksheets to help plan your major courses, or even use the GPA charts to see which subjects you have the highest GPA in. Links and information about additional advising resources are also available.

Forms (In progress and recently completed forms)

Academic Plan (3 Quarter Plan) - **Approved** (7/29/2014 9:49 AM) submitted on 7/29/2014 9:49 AM

Academic Plan (3 Quarter Plan) - **Denied** (7/29/2014 9:49 AM) submitted on 7/29/2014 9:48 AM

My Advising

Biological Sciences

Phone: (530) 752-0410
Address: 1023 Sciences Lab Building
Email: cbsundergrads@ucdavis.edu
Website: <http://biosci.ucdavis.edu/basc>

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Advising locations

Important Dates

(Important Dates)

Spring Quarter 2014

- Jun 20 - Aug 22 Fall Quarter Pass 1, Appointments (new students)
- Aug 23 - Aug 24 Fall Quarter Open Registration (new students)
- Aug 25 - Sep 5 Fall Quarter Pass 2, Appointments
- Sep 1 Labor Day
- Sep 6 - Sep 14 Fall Quarter Open Registration
- Sep 12 Summer Session II Ends
- Sep 18 - Nov 5 Fall Quarter Schedule Adjustment

Fall Quarter 2014

- Sep 29 Fall Quarter Begins
- Oct 2 Fall Quarter Instruction Begins
- Oct 15 Fall Quarter 10th day of instruction
- Oct 17 Fall Quarter 12th day of instruction
- Oct 29 Fall Quarter 20th day of instruction

Get involved

- Balance
 - Do something you enjoy
 - Aggie traditions
- Study Abroad
- Take a class – for fun
 - Experimental College
 - PE? Yes, PE
- Campus Recreation –
 - ARC, OA, Craft Center, Intramurals



Interested in meeting fellow ECE first-years? **Join our First Year Aggie Connection !**

First Year Aggie Connection

Thursdays 11 a.m. – 12 p.m.,

first meeting 9/22! Kemper 1127

- Engage students around a common purpose or theme
- Connect students with people and campus resources
- Help students explore career and academic interests
- Introduce students to campus culture and traditions
- Aid students in building social connections

<http://success.ucdavis.edu/programs/aggieconnect/connections.html>

Get Involved!

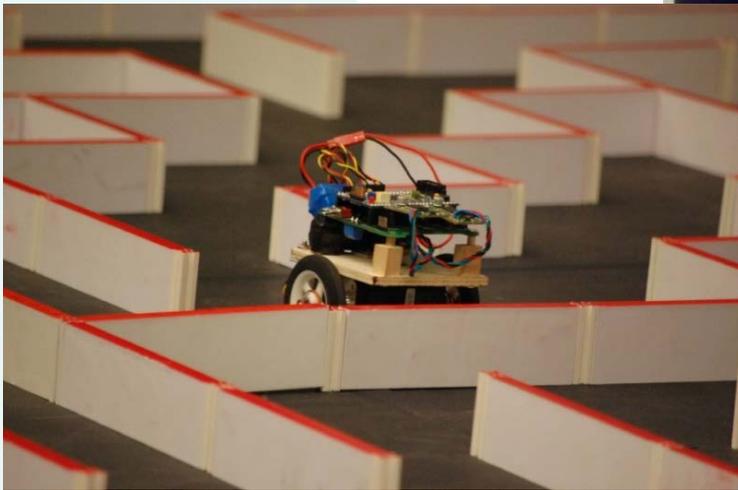
- IEEE
- Society of Women Engineers
- Engineering groups: TBP, EJC, BEA, CALESS,...



Ice Cream
Social
Thursday
9/29 at 2
p.m. Kemper
Hall Courtyard

Get Involved!

- Research
- Internships/Co-ops



The End Result



College of Engineering Commencement Ceremony June 2016

Questions?

For more information about ECE,
go to the Electrical & Computer Engineering
website at <http://www.ece.ucdavis.edu/>

2064 Kemper Hall

or

E-mail: ugradinfo@ece.ucdavis.edu

See page 57 of Student Handbook for contact information