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
# General Education Requirement

**Effective Fall 2011**

## TOPICAL BREADTH

<table>
<thead>
<tr>
<th>A. Arts &amp; Humanities (AH)</th>
<th>B. Science &amp; Engineering (SE)</th>
<th>C. Social Sciences (SS):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SATISFIED - For College of Engineering students</td>
<td></td>
</tr>
</tbody>
</table>

12-20 units  

| (AH) units + (SE) 20 units + (SS) units = (52) units | u Satisfied |

## CORE LITERACIES

### I. Literacy with Words & Images (20 units)

<table>
<thead>
<tr>
<th>a. College English Composition Req't:</th>
</tr>
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8 units, or the equivalent  

√ Satisfied

### II. Civic & Cultural Literacy (9 units)

<table>
<thead>
<tr>
<th>a. American Cultures, Governance &amp; History:</th>
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<tbody>
<tr>
<td>Domestic Diversity:</td>
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3 units 4 or 5

√ Satisfied

<table>
<thead>
<tr>
<th>b. Writing Experience:</th>
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6 units

u Satisfied

### III. Quantitative Literacy (3 units)

<table>
<thead>
<tr>
<th>a. CHE2A or EEC161</th>
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3 units

<table>
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<tr>
<th>b. EEC140A</th>
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</table>

4 units

√ Satisfied

### IV. Scientific Literacy (3 units)

<table>
<thead>
<tr>
<th>a. CMN1</th>
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</thead>
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3 units 4

√ Satisfied

<table>
<thead>
<tr>
<th>b. ENG17 or EEC100</th>
</tr>
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</table>

3 units 4 or 5

√ Satisfied

### Summary

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<table>
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<th>Core Literacies:</th>
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<td>I. Literacy with Words &amp; Images</td>
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<tr>
<td>II. Civic &amp; Cultural Literacy</td>
</tr>
<tr>
<td>III. Quantitative Literacy</td>
</tr>
<tr>
<td>IV. Scientific Literacy</td>
</tr>
</tbody>
</table>

### Remaining GE Requirements:

*With the possible exception of the courses satisfying the College English Composition Requirement the same course may be counted toward both the Core Literacies and Topical Breadth components. Overlap is not permitted within either. The Core Literacies or Topical Breadth component. College of Engineering students may not elect AP/P credit. Check AP chart in the General Catalog carefully before taking a course at UC Davis for which you already have AP credit.*
Placement – Entry Level Writing

• Satisfy by…
  • SAT writing ≥ 680, ACT English ≥ 30
  • English AP score ≥ 3, IB score ≥ 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 ⇒ 3 quarters to pass (C or better)
  • UWP 21-23 ⇒ 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)

**Path 1:** SAT Math score of 600+
**Path 2:** ACT Math test score of 27+
**Path 3:** AP Chemistry exam score of 3+
**Path 4:** SAT Chemistry subject test score of 700+
**Path 5:** UCD Chemistry Placement Exam score of 24+ on first attempt

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Does not meet criteria

Meets criteria

- **Preparatory Path 1:** Complete ALEKS to 100% Mastery
- **Preparatory Path 2:** Pass WLD 41C with C or better

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Enroll in CHE 2A

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 ⇒ credit for MAT21A
  • Calc BC 5 ⇒ credit for MAT 21A, MAT21B
• Chem
  • Score of 5 ⇒ credit for CHE 2A
• English
  • Score 4 or 5 ⇒ credit for ENL 3, UWP 1 ∴ 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!**
Home Page

Tabs for features

Dates and Deadlines

Advising locations

UC DAVIS COLLEGE OF ENGINEERING
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

Get Involved!

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

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

- Research
- Internships/Co-ops
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