Academic Advising Session I

Requirements for earning a degree from UCSB’s College of Engineering
UCSB vs. High School

UCSB
• Increased expectations
• Self-directed/proactive learning
• Inquiry based
• Thinking critically
• Participating in the creation of new knowledge
• Pace of 10-week quarter system

High School
• Memorization of information for exams
• Teachers reach out if they see a student struggling
• 15/16-week semester
• Many opportunities to earn points/grades
Degree Requirements

I. Unit Requirement

II. University Requirements

III. General Education Requirements

IV. Major Requirements
Units

What is a unit?
- Measure of credit awarded for successful completion of a course
- 1 unit is approximately 4 hours of work per week both in and out of class

How many do we need?
- Units to graduate:
  - Chemical Engineering: 187
  - Electrical Engineering: 189
  - Mechanical Engineering: 191
  - Computer Engineering: 191
  - Computer Science: 184
- Average 16-17 units per quarter to graduate in 4 years
- Stay on grid!!

Course Numbering
- 1-99 Lower Division
- 100-199 Upper Division
- 200+ Graduate

Class Standing – How many units have you completed?
- Freshman: 0-45
- Sophomore: 45.1-89.9
- Junior: 90-134.9
- Senior: 135 +4
## Grading Options

### Letter Grade

<table>
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<tr>
<th>Grade</th>
<th>GPA</th>
</tr>
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<tr>
<td>A+</td>
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</tr>
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<td>C+</td>
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<td>0.7</td>
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<tr>
<td>F</td>
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- Computed into Grade Point Average (GPA)
- Receive units for a D- or above
- At least 2/3 of all UCSB units
- **If a course CAN apply to your major you MUST take it for a letter grade**

### Passed/Not Passed (P/NP)

- Passed (P) = C or higher
- Not Passed (NP) = C- or below
- Not computed into Grade Point Average
- Receive units for Passed only
- Maximum 1/3 of all UCSB units
- No major/minor courses

Consult an advisor if you are unsure!

You have until the 7th week to change your grading option

**Retroactive Grading Option changes are NOT allowed/approved.**
I. Degree Requirements

A. Unit Requirement

B. University Requirements
   UC Entry Level Writing
   American History & Institutions
   Grade Point Average
   Academic Residence

C. General Education Requirement

D. Major Requirements
University Requirements

UC Entry Level Writing Requirement (ELWR)

Before matriculation:
- Pass System-wide UC Analytical Writing Placement Exam (AWPE) in May or September
- Score of 3 or above on either AP English exam
- Score of 5 or above on higher level English A International Baccalaureate Exam
- Score of 680 or higher on the Writing section of the SAT (“old” SAT taken pre-March 2016)
- Score of 680 of higher on the Evidence-Based Reading and Writing (EBRW) section of the SAT
- Score of 30 or higher on the ACT combined English/Writing test (“old” ACT taken pre-June 2015)
- Score of 30 or higher on the ACT English Language Arts
- Transfer course equivalent to Writing 2 with a grade of C or better

Note: If you have not satisfied ELWR in any of the above 7 ways, AND you have not already taken the AWPE, you MUST take the AWPE at UCSB on Monday, September 24 from 9-11am in Campbell Hall.

After matriculation:
- Take Writing 1/1E, or LING 12, within first year and earn a C or better.
University Requirements

American History and Institutions (AH&I)

• Score of 3 or above on AP U.S. History (APUSH) or U.S. Government & Politics exam

• Score of 650 or above on SAT subject test in American History

• Equivalent transfer course at college level

• Non-credit exam given by the UCSB History Department

• 4 units from approved UCSB list (see GEAR)
University Requirements

Grade Point Average
At graduation a minimum 2.0 UC GPA is required in three areas:
1. All units attempted on a letter graded basis
2. All units applicable to the major (both lower and upper division)
3. All units applicable to the upper division major

Academic Residence
Students must complete:
• 3 regular terms within the UC System
• 27 upper division units at UCSB
• 20 upper division major units at UCSB
• 35 of final 45 units at UCSB
I. Degree Requirements

A. Unit Requirement

B. University Requirements

C. General Education Requirements
   - English Reading & Composition
   - Social Sciences
   - Culture and Thought
   - Arts
   - Literature
   - Foreign Language
   - Special Subjects

D. Major Requirements
General Education

Area A: English Reading and Composition

• Satisfying the UC Entry Level Writing Requirement (ELWR) is a prerequisite to Area A
• Everything in Area A must be taken for a letter grade

Area A has two parts:

Writing 2/2E

Or

Score of 4 on either AP English Exam

Or

Score of 6 on IB higher level English A Exam

Writing 50/50E

Or

Score of 5 on either AP English Exam

Or

Score of 7 on IB higher level English A Exam

Writing 1E, 2E, and 50E must be completed during the first curriculum year.

Computer Science majors will take Writing 2 and Writing 50 or Writing 107T or 109ST.
General Education

Area D: Social Sciences
Area E: Culture and Thought
Area F: Arts
Area G: Literature
Area H: Foreign Language

A minimum of 6 courses are required:
• 2 courses must be from Area D
• 2 courses must be from Area E
• 1 course must be from Area F
• 1 course must be from Area G

Special Subject Area Requirements:
* Writing (at least 4 courses)
& Ethnicity (at least 1 course)
^ European Traditions or + World Cultures (at least 1 course)

ONLY UCSB Academic Senate approved courses will apply to General Education requirements. These courses can be found in the GEAR and/or on GOLD.
Additional Provisions Pertaining to GE requirements

• Each course may be applied to only **ONE** GE General Area D, E, F, G, or H

• Courses may apply to both GE’s **AND** the American History and Institutions Requirement, Ethnicity Requirement, World Cultures Requirement, or Writing Requirement
### Practice GE Worksheet

**Entry Level Writing Requirement:** AP English Language – Score 3  
**American History & Institutions:** Asian American Studies 2

### Area A: English Reading and Composition
Writing 2 or 2E (or test scores): Writing 2E  
Writing 50, 50E (or test scores): Writing 50E

### Area D: Social Sciences
Area A: English Reading and Composition
Writing 2 or 2E (or test scores): Writing 2E  
Writing 50, 50E (or test scores): Writing 50E

### Area E: Culture and Thought
Area A: English Reading and Composition
Writing 2 or 2E (or test scores): Writing 2E  
Writing 50, 50E (or test scores): Writing 50E

**Writing (¶):** English 21  
Classics 106  
Art History 6G  
Philosophy 4

### Ethnicity (&):
Asian American Studies 2  
European Traditions (¶) or World Cultures(+): Global Studies 1

**Areas F, G, or H: Arts, Literature, or Foreign Language:**
Art History 6G  
English 21

**Area D: Social Sciences**
Asian American Studies 2  
Global Studies 1

**Area E: Culture and Thought**
Philosophy 4  
Classics 106

**Writing (¶):** English 21  
Classics 106  
Art History 6G  
Philosophy 4

**Ethnicity (&):** Asian American Studies 2  
European Traditions (¶) or World Cultures(+): Global Studies 1
I. Degree Requirements

- A. Unit Requirement
- B. University Requirements
- C. General Education Requirements
- D. Major Requirements
## Chemical Engineering – Freshman Year Curriculum

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<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
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<tr>
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| WRIT 50E                            |                                              |

Total units: 16/20
## Computer Engineering – Freshman Year Curriculum

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| Total units: | 17 | 17 | 17 |
## Computer Science – Freshman Year Curriculum

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| **Total units:**            | **16/17**               | **16/17**                | **16**
# Electrical Engineering – Freshman Year Curriculum

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# Mechanical Engineering – Freshman Year Curriculum

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<td><strong>17</strong></td>
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Resources to Remember

- Major Department Advisors
- Educational Opportunity Program (EOP)
- Disabled Students Program (DSP)
- Billing Office (BARC)

Other Resources that will be covered during Orientation

- College of Engineering Advising Office
- Campus Learning Assistance Services (CLAS)
- GOLD