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: 180
  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>
<thead>
<tr>
<th>Grade</th>
<th>GPA</th>
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<tbody>
<tr>
<td>A+</td>
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<td>B+</td>
<td>3.3</td>
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<tr>
<td>B</td>
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<td>B-</td>
<td>2.7</td>
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<tr>
<td>C+</td>
<td>2.3</td>
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<td>C</td>
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<td>D+</td>
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<td>D</td>
<td>1.0</td>
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<tr>
<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
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</table>

- 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)**

<table>
<thead>
<tr>
<th></th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passed</td>
<td>C or higher</td>
</tr>
<tr>
<td>Not Passed</td>
<td>C- or below</td>
</tr>
</tbody>
</table>

- 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 or higher on the Evidence-Based Reading and Writing (EBRW) section of the SAT
• 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 ways, AND you have not already taken the AWPE, you MUST take the AWPE at UCSB on Monday, September 23 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
   - 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:

<table>
<thead>
<tr>
<th>A1</th>
<th>A2</th>
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<tbody>
<tr>
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<td>Or</td>
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<tr>
<td>Score of 4 on either AP English Exam</td>
<td>Score of 5 on either AP English Exam</td>
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<tr>
<td>Or</td>
<td>Or</td>
</tr>
<tr>
<td>Score of 6 on IB higher level English A Exam</td>
<td>Score of 7 on IB higher level English A Exam</td>
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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

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, or G

- Courses may apply to both GE’s **AND** the American History and Institutions Requirement, Ethnicity Requirement, World Cultures Requirement, European Traditions Requirement or Writing Requirement
Entry Level Writing Requirement: AP English Language – Score 3
American History & Institutions: Asian American Studies 2

Area A: English Reading and Composition
A1: Writing 2 or 2E (or test scores): Writing 2E
A2: Writing 50, 50E (or test scores): Writing 50E

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

Area E: Culture and Thought
Philosophy 4  Classics 106

Area F: Arts
Art History 6G

Area G: Literature
English 21

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

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tr>
<td>CH E 5</td>
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<td>PHYS 2</td>
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Total units: 17 17 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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## Electrical Engineering – Freshman Year Curriculum

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**Total units:** 16       16       16
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<th>Spring</th>
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<td>MATH 4A</td>
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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