Academic Advising Session I

Requirements for earning a degree from UCSB
<table>
<thead>
<tr>
<th>UCSB</th>
<th>vs.</th>
<th>High School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increased expectations</td>
<td></td>
<td>Memorization of information for exams</td>
</tr>
<tr>
<td>Self-directed/proactive learning</td>
<td></td>
<td>Teachers reach out if they see a student struggling</td>
</tr>
<tr>
<td>Inquiry based</td>
<td></td>
<td>15/16-week semester</td>
</tr>
<tr>
<td>Thinking critically</td>
<td></td>
<td>Many opportunities to earn points/grades</td>
</tr>
<tr>
<td>Participating in the creation of new knowledge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pace of 10-week quarter system</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
College of Engineering
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: 194
  - Electrical Engineering: 194
  - Mechanical Engineering: 190
  - Computer Engineering: 190
  - 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
Freshman: 0-45
Sophomore: 45.1-89.9
Junior: 90-134.9
Senior: 135 +
Grading Options

**Letter Grade**

<table>
<thead>
<tr>
<th>Grade</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.0</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
</tr>
</tbody>
</table>

**Passed/Not Passed (P/NP)**

- **Passed (P) = C or higher**
- **Not Passed (NP) = C- or below**

**Units**

- Computed into Grade Point Average (GPA)
- Receive units for a D- or above
- At least 2/3 of all UCSB units
- All major/minor courses

You have until the 7th week to change your grading option. Retroactive Grading Option changes are NOT allowed/approved.
Degree Requirements

I. Unit Requirement

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

III. General Education Requirement

IV. 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 6 or 7 on standard level English A1 International Baccalaureate Exam
• 680 or higher on the Writing section of the SAT
• Score of 30 or higher on the ACT combined English/Writing test
• 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 September 21, 8-10am in Campbell Hall.

After matriculation:
• Take Writing 1/1E, or equivalent course, within first year and earn a C or better.
University Requirements

American History and Institutions (AH&I)

• Score of 3 or above on AP American History or American 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 Engineering 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 required for and applicable to the major (both lower and upper division)
3. All units required for and 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
Degree Requirements

I. Unit Requirement

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

III. General Education Requirement

IV. Major Requirements
General Education Requirements

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.

If completing this requirement at UCSB, Computer Science majors will take Writing 2 and Writing 50 or Writing 107T or 109ST.
General Education Requirements

A minimum of 6 courses are required:
• 2 courses must be from Areas D&E
• 2 courses must be from Areas F&G
• 2 courses remaining can be from Areas D, E, F, G or H

Special Subject Area Requirements
* Writing (at least 4 courses)
& Ethnicity (at least 1 course)
^ European Traditions (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.
General Education Requirements

Depth Requirement: Option 1
At least 2 upper division GE courses from 2 separate departments in each of which you have completed another GE course

Example:

<table>
<thead>
<tr>
<th>Course 1 (Lower or Upper Division)</th>
<th>Course 2 (Upper Division)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department 1</td>
<td>Philosophy 1</td>
</tr>
<tr>
<td>Department 2</td>
<td>Sociology 131</td>
</tr>
</tbody>
</table>

**ALL** courses must be UCSB Academic Senate approved courses in **GE Areas D, E, F, G or H.**
General Education Requirements

Depth Requirement: Option 2
Completion of a 3 course series from the approved list (see GEAR)

Example:
Chicano Studies 1A  Chicano Studies 1B  Chicano Studies 1C

Depth Requirement: Option 3
Completion of an approved minor or double major from the approved list (see GEAR)

Example:
Minor in English

ALL courses must be UCSB Academic Senate approved courses in GE Areas D, E, F, G or H.
Additional Provisions pertaining to GE requirements:

• No more than 2 courses from the same department may be applied to Areas D, E, F, G and H
  **Option 2 of the depth requirement is the only exception**

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

• Courses may apply to both GE’s and the American History and Institutions Requirement, Ethnicity Requirement, European Traditions, or Writing Requirements
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

Areas D & E: Social Sciences, Culture and Thought: Asian American Studies 2 Classics 50

Areas F & G: Arts and Literature: Art History 6G English 21

Two additional courses from Areas D,E, F,G or H: Psychology 1 Philosophy 4

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

Depth Requirement (choose one of the following options):
Option 1: Classics 50 Classics 106 and Asian American Studies 2 Asian American Studies 137
Option 2: __________________, __________________, __________________
Option 3: Minor or Double Major from approved list

Ethnicity (&): Asian American Studies 2

European Traditions (^): Classics 50
Degree Requirements

I. Unit Requirement

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

III. General Education Requirement

IV. Major Requirements
## Chemical Engineering – Freshman Year Curriculum

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch E 1A</td>
<td>Chem 1B or 2B</td>
<td>Chem 1 C or 2C</td>
</tr>
<tr>
<td>Chem 1A or 2A</td>
<td>Chem 1BL or 2BC</td>
<td>Chem 1 CL or 2CC</td>
</tr>
<tr>
<td>Chem 1 AL or 2AC</td>
<td>Math 3B</td>
<td>Math 4A</td>
</tr>
<tr>
<td>Engr 3 or GE Elective</td>
<td>Phys 1</td>
<td>Phys 2</td>
</tr>
<tr>
<td>Math 3A</td>
<td>Writ 2E or 50E</td>
<td>Writ 50E, GE Elective or Engr 3</td>
</tr>
<tr>
<td>Writ 1E or 2E</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| **Total units:**      | **17**                        | **17**                             | **17**
# Computer Engineering – Freshman Year Curriculum

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem 1A or 2A</td>
<td>ECE 1A</td>
<td>Cmpsc 16</td>
</tr>
<tr>
<td>Chem 1AL or 2AC</td>
<td>Math 3B</td>
<td>ECE 1B</td>
</tr>
<tr>
<td>Math 3A</td>
<td>Phys 1</td>
<td>Math 4A</td>
</tr>
<tr>
<td>GE Elective or Cmpsc 8</td>
<td>Writ 2E or 50E</td>
<td>Phys 2</td>
</tr>
<tr>
<td>Writ 1E or 2E</td>
<td>Math, Science, or Engineering Elective</td>
<td>Writ 50E or GE Elective</td>
</tr>
<tr>
<td><strong>Total units:</strong></td>
<td><strong>17</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

Units per quarter: 17
## Computer Science – Freshman Year Curriculum

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE Elective or Cmpsc 8</td>
<td>Cmpsc 16</td>
<td>Cmpsc 24</td>
</tr>
<tr>
<td>Math 3A</td>
<td>Math 3B</td>
<td>Math 4A</td>
</tr>
<tr>
<td>Writ 1, 2, or GE Elective</td>
<td>Phys 1</td>
<td>Phys 2</td>
</tr>
<tr>
<td>GE Elective</td>
<td>Writ 1, 2, or GE Elective</td>
<td>Science or Free Elective</td>
</tr>
</tbody>
</table>

| Total units: | 16 | 16 | 16 |

Total units: 16

16

16

20
**Electrical Engineering – Freshman Year Curriculum**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem 1A or 2A</td>
<td>ECE 5</td>
<td>Cmpsc 16</td>
</tr>
<tr>
<td>Chem 1AL or 2AC</td>
<td>Math 3B</td>
<td>Math 4A</td>
</tr>
<tr>
<td>Engr 3</td>
<td>Phys 1</td>
<td>Phys 2</td>
</tr>
<tr>
<td>Math 3A</td>
<td>Writ 2E or 50E</td>
<td>Writ 50E or GE</td>
</tr>
<tr>
<td>Writ 1E or 2E</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total units:** 16 16 16
# Mechanical Engineering – Freshman Year Curriculum

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem 1A or 2A</td>
<td>Chem 1B or 2B</td>
<td>Math 4A</td>
</tr>
<tr>
<td>Chem 1AL or 2AC</td>
<td>Chem 1BL or 2BC</td>
<td>ME 10</td>
</tr>
<tr>
<td>Engr 3 or GE Elective</td>
<td>Math 3B</td>
<td>Phys 2</td>
</tr>
<tr>
<td>Math 3A</td>
<td>Phys 1</td>
<td>Writ 50E, Engr 3 or GE Elective</td>
</tr>
<tr>
<td>Writ 1E or 2E</td>
<td>Writ 2E or 50E</td>
<td></td>
</tr>
<tr>
<td><strong>Total units:</strong> 16/17</td>
<td>17</td>
<td>15/16</td>
</tr>
</tbody>
</table>
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 Engineering Advising Office
• Campus Learning Assistance Services (CLAS)
• GOLD