

# Academic Advising Session I

Requirements for earning a  
degree from UCSB's College of Engineering



# UCSB

vs.

# High School

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

- 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

Computer Engineering: 191

Electrical Engineering: 189

Computer Science: 184

Mechanical Engineering: 180

- 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

Junior: 90-134.9

Sophomore: 45.1-89.9

Senior: 135 +4

# Grading Options

## Letter Grade

A+	4.0	C+	2.3
A	4.0	C	2.0
A-	3.7	C-	1.7
B+	3.3	D+	1.3
B	3.0	D	1.0
B-	2.7	D-	0.7
		F	0.0

Units ↑

- 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

Units ↑

- 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 7<sup>th</sup> 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

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## 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

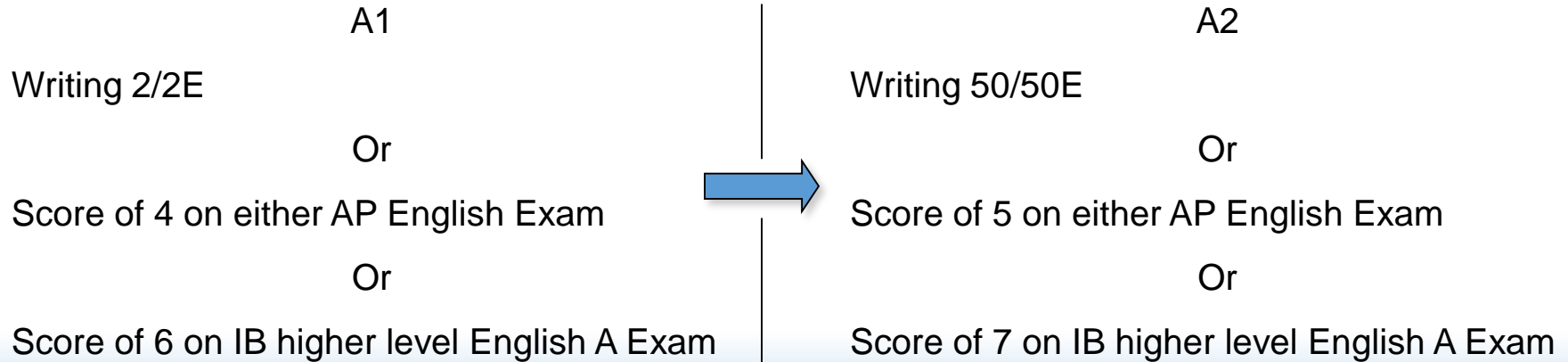


# General Education

## 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:



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



# Practice GE Worksheet

Entry Level Writing Requirement: AP English Language – Score 3

American History & Institutions: Asian American Studies 2

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## 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

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## Area D: Social Sciences

Asian American Studies 2    Global Studies 1

## Area F: Arts

Art History 6G

## Area E: Culture and Thought

Philosophy 4    Classics 106

## Area G: Literature

English 21

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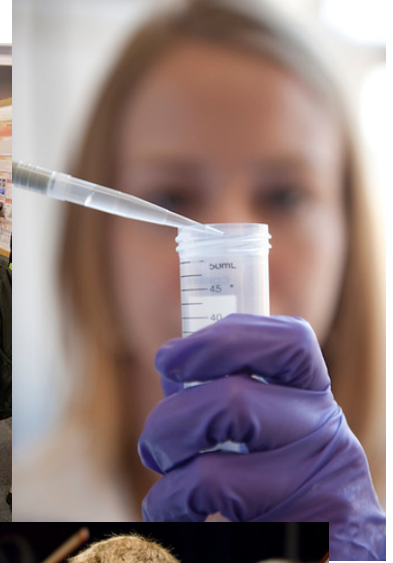
Writing (\*): English 21    Classics 106    Art History 6G    Philosophy 4

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

<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
CH E 5	CHEM 1B or 2B	CHEM 1C or 2C
CHEM 1A or 2A	CHEM 1BL or 2BC	CHEM 1CL or 2CC
CHEM 1 AL or 2AC	MATH 3B	MATH 4A
MATH 3A	PHYS 1	PHYS 2
WRIT 1E, 2E, or 50E (or GE Elective)	WRIT 2E or 50E (or GE Elective)	ENGR 3
		WRIT 50E
<b>Total units:</b> <b>17</b>	<b>17</b>	<b>16/20</b>



# Computer Engineering – Freshman Year Curriculum

<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
CHEM 1A or 2A	ECE 1A	CMPSC 16
CHEM 1AL or 2AC	MATH 3B	ECE 1B
MATH 3A	PHYS 1	MATH 4A
GE Elective or CMPSC 8	WRIT 2E or 50E	PHYS 2
WRIT 1E, 2E, or 50E	Math, Science, or Engineering Elective	WRIT 50E or GE Elective
<b>Total units:           17</b>	<b>17</b>	<b>17</b>

# Computer Science – Freshman Year Curriculum

<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
GE Elective or CMPSC 8	CMPSC 16	CMPSC 24
MATH 3A	MATH 3B	MATH 4A
WRIT 1, 2, or GE Elective	PHYS 1	PHYS 2
GE Elective	WRIT 1, 2, or GE Elective	Science or Free Elective
<b>Total units:</b> <b>16/17</b>		<b>16</b>

# Electrical Engineering – Freshman Year Curriculum

<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
CHEM 1A or 2A	ECE 5	CMPSC 16
CHEM 1AL or 2AC	MATH 3B	MATH 4A
ECE 3	PHYS 1	PHYS 2
MATH 3A	WRIT 2E or 50E	WRIT 50E or GE
WRIT 1E, 2E, or 50E		
<b>Total units:        16</b>	<b>16</b>	<b>16</b>

# Mechanical Engineering – Freshman Year Curriculum

<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
CHEM 1A or 2A	CHEM 1B or 2B	MATH 4A
CHEM 1AL or 2AC	CHEM 1BL or 2BC	ME 10
MATH 3A	MATH 3B	PHYS 2
ME 12S	PHYS 1	ENGR 3
WRIT 1E, 2E, or 50E	WRIT 2E or 50E	WRIT 50E or GE Elective
<b>Total units:</b> <b>14/17</b>	<b>17</b>	<b>19</b>

# 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