Engineer Change.

UCLA SAMUELI OFFICE OF ACADEMIC AND STUDENT AFFAIRS
2019-2020
ORIENTATION HANDBOOK

UCLA Samueli School of Engineering
June 5, 2019

Dear Bruin Engineer:

It gives me great pleasure to welcome you to UCLA Samueli Engineering. Your academic and extracurricular excellence allowed you to succeed in an increasingly competitive admissions process. You are now a Bruin! We have prepared this manual to help you come up to speed quickly as you prepare to start classes in the fall. Take time to look thorough it before the quarter begins.

Engineering is a challenging program. To make your transition to college life easier, please follow these basic guidelines:

- Plan to take no more than three classes plus a seminar (Engineering 96, departmental seminar, or fiat luxe) during your first quarter on campus. Put your TA and instructor office hours on your calendar just like a class, and attend them. Your tuition is paying for these experiences, and if you don’t go you are leaving hundreds of dollars on the table as you miss unique learning opportunities.

- Start your problem sets the day you receive them. Office hours are most helpful if you have already started the problem and can come with questions. Many of my undergraduate advisees report that this simple strategy raises their performance by a letter grade. Plus, you will end up spending less time on the homework overall, and have an easier time following the lectures by being up on the material. Because the quarter system is so fast, this early-bird strategy is much easier to maintain if you start it on the first day of classes.

You are joining a wonderful community of engineering students, faculty, and staff. Our community will support you with academic counselors, peer and alumni mentors, faculty advisors, thriving student organizations, tutors, and scholarship opportunities. I encourage you to take full advantage of these resources and let them make the challenging experience of becoming an engineer easier and more rewarding.

I also ask you to make our community stronger by your actions. Help your classmates to learn even as you are learning, and look for opportunities to be kind to someone who needs a smile. As you move through the program here, you can make significant contributions of your own by becoming a peer mentor, a peer tutor, or an officer in one of our amazing student organizations – actions that will become your lasting legacy at UCLA Samueli.

Sincerely,

Richard Wesel

Richard Wesel Associate Dean of Academic and Student Affairs
Table of Contents

Academic Calendar ........................................................................ 6
Academic Counselors .................................................................... 7
HSSEAS OASA ............................................................................ 8
  Who we are .............................................................................. 8
  How to find us .......................................................................... 8
  What we do .............................................................................. 8
Enrollment .................................................................................... 9
  Grading .................................................................................... 9
  Graduate Courses ................................................................. 9
  Transfer Courses ..................................................................... 9
Samueli Engineering Deadlines....................................................10
Study Skills ..................................................................................10
  Faculty Advising ......................................................................10
University Requirements ..............................................................11
General Education Courses ..........................................................12
Technical Breadth .......................................................................13
Subset Restrictions .....................................................................13
Advance Placement Exam Credit ...............................................14
International Baccalaureate Exam Credit ....................................14
Course Evaluation .......................................................................15
Education Abroad .......................................................................15
Engineering Research & Internship Programs .............................16
Engineering Research & Internship Programs .............................17
Career Center .............................................................................18
Engineer Transfer Center ............................................................19
Women in Engineering ................................................................20
HSSEAS External Affairs ............................................................21
OASA Quarterly Workshops ......................................................22
Samueli Engineering & CAPS ....................................................23
Additional Resources ..................................................................24
# UCLA Registrar’s Office 2018-2019 Academic Calendar

## SUMMER HOLIDAYS 2018
- Independence Day holiday: Wednesday, July 4
- Labor Day holiday: Monday, September 3

## FALL QUARTER 2018
- Quarter begins: Monday, September 24
- Instruction begins: Thursday, September 27
- **Last day to drop a impacted course**: Friday, October 12
- Study List deadline (becomes official): Friday, October 12
- **Last day to drop a non-impacted course**: Friday, October 26
- Veterans Day holiday: Monday, November 12
- Thanksgiving holiday: Thursday-Friday, November 22-23
- Instruction ends: Friday, December 7
- Common final exams: Saturday-Sunday, December 8-9
- Final examinations: Monday-Friday, December 10-14
- Quarter ends: TBD

## WINTER QUARTER 2019
- Quarter begins: Wednesday, January 2
- Instruction begins: Monday, January 7
- **Last day to drop a impacted course**: Friday, January 18
- Martin Luther King, Jr. holiday: Friday, January 18
- Study List deadline (becomes official): Monday, January 21
- **Last day to drop a non-impacted course**: Friday, February 1
- Presidents’ Day holiday: Monday, February 18
- Instruction ends: Friday, March 15
- Common final exams: Saturday-Sunday, March 16-17
- Final examinations: Monday-Friday, March 18-22
- Quarter ends: Friday, March 22

## SPRING QUARTER 2019
- Quarter begins: Wednesday, March 27
- César Chávez holiday: Friday, March 29
- Instruction begins: Monday, April 1
- **Last day to drop a impacted course**: Friday, April 12
- Study List deadline (becomes official): Friday, April 12
- **Last day to drop a non-impacted course**: Friday, April 26
- Memorial Day holiday: Monday, May 27
- Instruction ends: Friday, June 7
- Common final exams: Saturday-Sunday, June 8-9
- Final examinations: Monday-Friday, June 10-14
- Quarter ends: Friday, June 14
- Commencement Ceremonies 2019: Check HSSEAS OASA website: www.seasoasa.ucla.edu
Academic Counselors

Front Office Coordinator/ Counselor
- Jennifer Alvarado

Aerospace Engineering
- Michel Moraga
- Vanessa Hernandez
- Jan LaBuda
- Anandrea Suarez

Bioengineering
- Erkki Corpuz
- Ashley Grossfeld
- Victoria Moraga

Chemical Engineering
- Ashley Grossfeld
- Erkki Corpuz
- Julieta Ramirez

Civil Engineering
- Vanessa Hernandez
- Ashley Grossfeld
- Erkki Corpuz
- Jan LaBuda

Computer Engineering
- Cynthia Moraga
- Alina Haas
- Jan LaBuda
- Victoria Moraga
- Julieta Ramirez
- Mary Anne Geber
- James Washington
- Anandrea Suarez

Computer Science & Engineering
- Alina Haas
- Angelina Bargeron
- Mary Anne Geber
- Jan LaBuda
- Cynthia Moraga
- Michel Moraga
- Victoria Moraga
- James Washington
- Anandrea Suarez

Computer Science
- Alina Haas
- Angelina Bargeron
- Mary Anne Geber
- Jan LaBuda
- Cynthia Moraga
- Michel Moraga
- Victoria Moraga
- James Washington
- Anandrea Suarez

Please contact the OASA academic counselors via the MyUCLA Message Center – scan QR Code below.

To schedule an appointment:
call (310) 825-9580
or stop by 6426 Boelter Hall
Office of Academic and Student Affairs (OASA)

The Office of Academic and Student Affairs provides academic advising and counseling for engineering undergraduate students. Our counseling and advising services include guidance with policies and procedures, advice on curriculum requirements, identification of resources for tutoring and study skill improvement, and the review of petitions.

Why should I see an academic advisor?

- Academic Advising
- Course Planning/ Degree Audits
- Having academic difficulties.
- I need to submit a petition.
- Having health and wellness issues that affect my ability to perform well in courses.
- I need help locating resources on campus.
- Internships
- Scholarships
- Graduation
- Change of Major

OASA plays a central role in the admission of engineering undergraduates to UCLA, and welcomes and advises admitted students. We provide regular change of major workshops to guide students through this process. We also help direct engineering students to internship opportunities. OASA works with the Office of External Affairs to publicize the large number of scholarships available to engineering students. Many of these scholarships are also administered by OASA. For students approaching graduation, OASA provides a degree audit to clarify exactly which requirements remain to be fulfilled for degree completion. Students should be sure they understand this mandatory process at least two quarters prior to their degree expected term. OASA also works with the numerous engineering student organizations.

APPOINTMENTS

To schedule an appointment: call (310) 825-9580 or stop by 6426 Boelter Hall

Walk in Appointments: Wednesdays: 9:00 a.m. – 11:30 a.m. Thursdays: 1:00 p.m. – 4:00 p.m. Adjusted hours during summer orientation

CONTACT HOURS

(Office hours may be adjusted due to holiday closures and staff meetings; it is advisable to call the office to verify hours before coming in) M, W, F – 8:00 a.m. – 5:00 p.m. (Closed 12 noon – 1:00 p.m.) T, Th – 9:00 a.m. – 5:00 p.m. (Closed 12 noon – 1:00 p.m.) www.seasoasa.ucla.edu
ENROLLMENT

Students can use the MyUCLA Class Planner to formulate several alternative study list plans in case first-choice classes are not available. Students should not choose classes with the same final examination code, or select classes that have conflicting meeting times or multiple same-day final examinations. If conflicts are unavoidable, students should consult the instructor of each course at the first class meeting to see if it is possible to work out an arrangement.

FIRST AND SECOND PASS ENROLLMENT

Each student is assigned an enrollment time based on the number of units the student has. First pass allows students to enroll in up to 10 units. Second Pass allows students to enroll in up to study list maximum. Second pass begins after first pass has finished for all students.

Enrollment Consideration Request (ECR)

The ECR serves as a backup if the course and the waitlist for a course are full. If a course no longer has any more space and you still want to take it, then please submit an ECR. If a course has space but you can't enroll due to enrollment restrictions wait until second pass and try again. If you still can't get in the course second pass please submit an ECR. You only need to submit the ECR once per course. Submitting the ECR does not guarantee enrollment. The ECR can be found On OASA’s home webpage (seasoasa.ucla.edu).

PASSED/NOT PASSED (P/NP) ELIGIBILITY

Required courses and major electives for all Samueli Engineering majors must be taken for a letter grade (unless the course is graded P/NP only).

GE courses may be taken P/NP unless the course is offered for a letter grade only. A student may take one course, maximum 5 units, per quarter on a P/NP basis if the student meets all the following conditions:

1. In good academic standing (2.0 or higher term and cumulative GPA)
2. Enrolled in at least 9 graded units for the quarter. Not including the course to be taken on a P/NP basis
3. Has not received two NP grades. Students who have received two NP grades shall be excluded from electing courses on a P/NP basis for one quarter
4. Not repeating a course in which a grade of C-, D+, D, D- or F has been earned

During Summer Sessions, to enroll in one grading option course (up to 5 units) as P/NP a student must be additionally enrolled in 9 letter graded units for that same session. (e.g. if a student wants to take a GE for P/NP in Session A, that student must also be enrolled in an additional 9 letter graded units for Session A)

EXCEPTIONS

All petitions for exceptions to enrollment rules or for changes to study lists after the deadlines must be submitted to the Office of Academic and Student Affairs, 6426 Boelter Hall. IF approved, the student must additionally file an enrollment petition with the Registrar, 1113 Murphy Hall. The student's BAR account will be charged for any fee. For other exceptions see a Samueli Engineering academic counselor.

(Exceptions are not normally approved)

TRANSFER CREDIT for continuing students

Continuing Samueli Engineering students who have completed 105 or more quarter units of college coursework (excluding AP/IB/A-Levels) may not earn any additional credit from any community college, nor can they receive any additional lower-division credit from any 4-year institution unless it is a UC campus. UCLA prohibits concurrent enrollment at another college or university during the regular school year (fall, winter, spring), and students who take courses at other schools during a term in which they are also enrolled at UCLA, will not get credit for the work completed at the other school. Students must submit transcripts and evaluation materials no later than the end of the first term at UCLA after completing the work, for credit to be applied to Samueli Engineering degree requirements.

REPETITION OF COURSES

Courses taken at the University MAY BE repeated at UCLA only subject to the following:

1. Student received a grade of C- or lower in the course
2. Course may not be repeated more than once without the approval of the Associate Dean
3. For undergraduates who repeat a total of 16 units or less, only the most recently earned letter grades and grade points will be computed into the grade-point average. After repeating 16 units, the GPA will be based on all letter grades assigned and total units attempted. (See General Catalog for additional details.)

REMOVAL OF GRADE OF INCOMPLETE

IF YOU RECEIVE A GRADE OF “I” DO NOT RE-ENROLL IN THE COURSE

An incomplete (I) grade may be assigned under the following conditions: the student must ask the Instructor for the I grade, the student’s work must be of passing quality and the reasons for requesting the I grade are not repeating a course in which a grade of C-, D+, D, D- or F has been earned

During Summer Sessions, to enroll in one grading option course (up to 5 units) as P/NP a student must be additionally enrolled in 9 letter graded units for that same session. (e.g. if a student wants to take a GE for P/NP in Session A, that student must also be enrolled in an additional 9 letter graded units for Session A)

EXCEPTIONS

All petitions for exceptions to enrollment rules or for changes to study lists after the deadlines must be submitted to the Office of Academic and Student Affairs, 6426 Boelter Hall. IF approved, the student must additionally file an enrollment petition with the Registrar, 1113 Murphy Hall. The student’s BAR account will be charged for any fee. For other exceptions see a Samueli Engineering academic counselor.

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IF YOU RECEIVE A GRADE OF “I” DO NOT RE-ENROLL IN THE COURSE

An incomplete (I) grade may be assigned under the following conditions: the student must ask the Instructor for the I grade, the student’s work must be of passing quality and the reasons for requesting the I grade must be of sufficient gravity to warrant an incomplete grade. Do NOT re-enroll in the course if you receive an I. See a Counselor, 6426 BH, for more details. Once the work is satisfactorily completed, the instructor will submit a UCLA Report of Academic Revision. Students should have a clear understanding with the instructor regarding the work to be completed, the time frame, and the responsibilities each of them has. If the work is not completed by the end of the next quarter in residence, the grade I will automatically lapse to a grade of F or NP as appropriate.

GRADUATE LEVEL COURSES

(Courses numbered 200 and above)

Samueli Engineering undergraduate students are not allowed to enroll in graduate level courses without first obtaining approval by petition at 6426 BH.
**STUDY LIST DEADLINES**

*Deadline for Samueli Engineering students to drop non-impacted courses is end of 4th week*

<table>
<thead>
<tr>
<th>Semester</th>
<th>Action</th>
<th>Deadline</th>
<th>Week</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall 2019</strong></td>
<td>Impacted courses may NOT be dropped after</td>
<td>5PM October 11</td>
<td>Fri 2nd wk</td>
</tr>
<tr>
<td></td>
<td>*All courses must be ADDED by</td>
<td>5PM October 18</td>
<td>Fri 3rd wk</td>
</tr>
<tr>
<td></td>
<td>*Non-impacted courses may NOT be DROPPED after</td>
<td>5PM October 27</td>
<td>Fri 4th wk</td>
</tr>
<tr>
<td></td>
<td>*Change of credit detail (P/NP) may be changed until</td>
<td>5PM November 08</td>
<td>Fri 6th wk</td>
</tr>
<tr>
<td><strong>Winter 2020</strong></td>
<td>Impacted courses may NOT be dropped after</td>
<td>5PM January 17</td>
<td>Fri 2nd wk</td>
</tr>
<tr>
<td></td>
<td>*All courses must be ADDED by</td>
<td>5PM January 24</td>
<td>Fri 3rd wk</td>
</tr>
<tr>
<td></td>
<td>*Non-impacted courses may NOT be DROPPED after</td>
<td>5PM January 31</td>
<td>Fri 4th wk</td>
</tr>
<tr>
<td></td>
<td>*Change of credit detail (P/NP) may be changed until</td>
<td>5PM February 14</td>
<td>Fri 6th wk</td>
</tr>
<tr>
<td><strong>Spring 2020</strong></td>
<td>Impacted courses may NOT be dropped after</td>
<td>5PM April 11</td>
<td>Fri 2nd wk</td>
</tr>
<tr>
<td></td>
<td>*All courses must be ADDED by</td>
<td>5PM April 18</td>
<td>Fri 3rd wk</td>
</tr>
<tr>
<td></td>
<td>*Non-impacted courses may NOT be DROPPED after</td>
<td>5PM April 25</td>
<td>Fri 4th wk</td>
</tr>
<tr>
<td></td>
<td>*Change of credit detail (P/NP) may be changed until</td>
<td>5PM May 09</td>
<td>Fri 6th wk</td>
</tr>
</tbody>
</table>

Contract forms (SRP 99, 195, 199) to 6426BH, **NO LATER THAN TUE OF WEEK 2, OCT 10**, to avoid the **3rd week add fee** (SRP Deadlines)

**HIGHLY EFFECTIVE HABITS**

*Before Enrolling in Classes*

Know your catalog year (2019-2020). Catalog Year is important because you will follow the curriculum requirements in effect that year. Get a list of classes you need to take and plan your schedule ahead of time. Familiarize yourself with the Engineering Catalog (Announcement). Plan on studying abroad? Joining the marching band? Plan ahead. Always keep your Samueli Engineering OASA academic counselor informed. Know yourself, your study habits, and what kind of teaching styles you excel at. Scope out your professors and their teaching styles (note that you will not have the option to choose your professor for most engineering classes).

*Before and After Lecture*

Buy/Rent Textbooks/Lecture notes early. Be prepared by reading the chapter you will go over in class ahead of time, if you have questions ask in lecture. Review your notes from past lectures and ask questions on what you don’t understand. Re-read your notes the same day after lecture and highlight important ideas. Take advantage of emailing your Professor, TA and ATTENDING OFFICE HOURS! Always introduce yourself to your professor in office hours. Come in prepared with questions; bring a classmate for support if needed. Find one or two people in each course to form a study group (ask for emails/phone numbers)

*Set Goals*

Write them out, work toward them, and reflect on them often. Plan/Set a routine. Make lists of priorities and manage your time wisely. Remember UCLA runs on a quarter system. Each quarter is ten weeks.

*Studying*

Start with the most difficult subject first. Study at the same time daily. Study in an environment you feel comfortable in. Use your weekends wisely. Review material, meet with study group, do homework, and prepare for the week ahead.

*Faculty Advising*

Each student in the School of Engineering is assigned a Faculty Advisor, a Professor in the department of that student’s major. Faculty Advisors are for asking questions about careers, research, graduate school, and other specific topics that your Academic Counselor does not have detailed knowledge of. It is a requirement that you meet with your Faculty Advisor once every academic year. Failure to do so will result in a hold being placed on that student’s record until he or she has met with a Faculty Advisor.
University Requirements

All UC students must satisfy TWO University of California Requirements before they graduate!! (Note: These are separate requirements from your major and School requirements; you are responsible for making sure you have fulfilled both BEFORE you graduate)

**UC REQUIREMENT ONE: Entry Level Writing Requirement or ESL Requirement**

UC Analytical Writing Placement Exam (Passing this exam satisfies Entry Level Writing). If you passed the UC Analytical Writing Placement Exam (AWPE) or you have AP English credit, then on the Record of Interview you will have a notation indicating "SATISFIED".

If AWPE was not passed and you have no AP English or other credit, then you will have a notation of "REQUIRED" or you may be noted specific exam results (e.g. English 2 Required).

If you are required to take the UC AWPE, please visit the following link to view the Fall exam schedule: http://www.wp.ucla.edu/ OR call the Writing Programs Office at 310-206-1145 for questions

ESL Placement Exam (Passing this exam satisfies ESL Requirement). If you passed the ESL exam you will have a notation of "SATISFIED" or you may be noted specific exam results (e.g. ESL 33 required). If required to take the ESL exam, then visit the following link to register for the exam:

http://www.wp.ucla.edu/index.php/placement-exam-schedule/espe OR e-mail tara@humnet.ucla.edu for questions

**UC REQUIREMENT TWO: American History and Institutions Requirement (AHI)**

If you have taken one year of American History and/or Government courses in High School and received an average grade of “B” or better, then you will have a notation indicating “SATISFIED”. (Please make sure that The Office of Undergraduate Admissions receives your High School Transcripts)

If you do not have high school credit or other type of credit for this requirement you will have a notation of “REQUIRED”.

If you are an F1 visa holder you may be exempt from this requirement. You will need to contact an undergraduate History Department counselor in 6248 Bunche Hall, 310-825-3720, to receive exemption for this requirement.

FOR MORE INFORMATION

Please visit the registrar’s website. https://www.registrar.ucla.edu/
General Education Requirements

Engineering majors are required to take five GE courses (24 units minimum). These courses are to be selected from the categories below, with each course satisfying a different subgroup:

**Foundations of the Arts and Humanities (FAH)**

Two 5-unit courses selected from two different subgroups:

1. Literary and Cultural Analysis (LCA)
2. Philosophical and Linguistic Analysis (PLA)
3. Visual and Performance Arts Analysis and Practice (VPA)

Courses in this area offer perspectives and intellectual skills necessary to comprehend and think critically about our situation in the world as human beings. In particular, the courses provide the basic means to appreciate and evaluate the ongoing efforts of humans to explain, translate, and transform their diverse experiences of the world through such media as language, literature, philosophical systems, images, sounds, and performances. The courses introduce students to the historical development and fundamental intellectual and ethical issues associated with the arts and humanities, and may also investigate the complex relations between artistic and humanistic expression and other facets of society and culture.

**Foundations of Society and Culture (FSC)**

Two 5-unit courses, one from each subgroup:

1. Historical Analysis (HAN)
2. Social Analysis (SAN)

Courses in this area introduce students to the ways in which humans organize, structure, rationalize, and govern their diverse societies and cultures over time. The courses focus on a particular historical question, societal problem, or topic of political and economic concern in an effort to demonstrate how issues are objectified for study, how data is collected and analyzed, and how new understandings of social phenomena are achieved and evaluated.

Note: some specific classes may count for one of multiple GE categories. You must be sure to take five different classes to satisfy five different GE categories (all of those listed above except for one FAH category). Please ask a counselor if you have ANY questions about your GE requirements.

**Foundations of Scientific Inquiry (FSI)**

One course from the Life Sciences subgroup:

1. Life Sciences

DO NOT TAKE a Physical Sciences GE. It is already satisfied for all engineering students.

Courses in this area ensure that students gain a fundamental understanding of how scientists formulate and answer questions about the operation of the physical and biological world. The courses also deal with some of the most important issues, developments, and methodologies in contemporary science, addressing such topics as the origin of the universe, environmental degradation, and the decoding of the human genome. Through lectures, laboratory experiences, writing, and intensive discussions, students consider the important roles played by the laws of physics and chemistry in society, biology, earth and environmental sciences, and astrophysics and cosmology.

This requirement is automatically satisfied for Bioengineering and Chemical Engineering majors. The requirement is satisfied for Civil Engineering majors by the natural science requirement - one natural science course must be taken from Civil and Environmental Engineering 58SL, Earth, Planetary, and Space Sciences 3, 15, 16, 17, 20, Environment 12, Life Sciences 1, 2, 7A, Microbiology, Immunology, and Molecular Genetics 5, 6, or Neuroscience 10

**GE Clusters**

While engineering students are allowed to take GE Clusters, they may be difficult to complete because a student must complete a fixed 3-quarter sequence of classes to receive credit for the 3 to 4 GE categories. We advise that you speak to an OASA counselor if you are considering taking any GE clusters.
Technical Breadth Requirement and Restrictions

Students must satisfy a single Technical Breadth Area (TBA) outside their major's department.

Example: Students in the Bioengineering major cannot choose the TBA in Bioengineering.

Technical Breadth Areas
- Bioengineering
- Chemical and Biomolecular Engineering
- Civil and Environmental Engineering
- Computer Science
- Electrical and Computer Engineering
- Materials Science and Engineering
- Mechanical and Aerospace Engineering
- Computational Genomics
- Energy and the Environment
- Engineering Mathematics
- Engineering Science
- Nanotechnology
- Pre-Med
- Technology Management
- Urban Planning

Exceptions
Students in the Computer Engineering and Computer Science & Engineering majors, have the choice to select a technical breadth area in either the department of Electrical and Computer Engineering or Computer Science since this major is jointly administered by both departments. Students do have the option to choose a course offered by their major’s department IF the course is part of a schoolwide TBA (e.g. Engineering Mathematics) and not being used to satisfy other degree requirements.

Example: the TBA in Engineering Mathematics lists COM SCI 112 which is not required for the Computer Science and Engineering major, therefore, a student in Computer Science and Engineering major can choose COM SCI 112 to satisfy that TBA.

Courses chosen to satisfy the TBA cannot be used to satisfy other degree requirements. Students are responsible for meeting requisites of courses selected. Students may petition, at 6426BH, to use one lower division course to satisfy a technical breadth elective IF that lower division course is a requisite for at least one of the two upper division technical breadth courses that the student takes from the same area (and that lower division course is not being applied toward another degree requirement). The Technical breadth requirement is a 12 unit requirement. To complete the requirement with only three courses, those three courses must add up to at least 12 units.

Subset Restrictions
It is not permitted to use more than one course from the same subset in meeting the degree requirements of any HSSEAS major unless an additional course from that subset is explicitly specified as recommended or is listed as a prerequisite in the catalog description of the course in the same subset.

ie: Civil Engineering students must take C&EE 110 as part of their major requirements. This course is in Subset 1 (Probability and Statistics), they may not take any other course in this subset (STATS 110A, EC ENGR 131A, MATH 170A, STATS 100A) to satisfy a Technical Breadth, as the content covered in the courses of a subset contain too much overlap.

Subset 1: Probability and Statistics course subset (C&EE 110, STATS 110A, EC ENGR 131A, MATH 170A, STATS 100A)
Subset 2: Numerical Computing course subset (EC ENGR 133A, C&EE 103, CH ENGR 109, MATH 151A)
Subset 3a): Structural Mechanics Subset (C&EE 108, MECH&AE 101 (formerly 96) )
Subset 3b): Statics Subset (C&EE 91, MECH&AE 101 (formerly 96)) Subset 3c): Dynamics Subset (C&EE 102, MECH&AE 102)
Subset 4a): Introductory Thermodynamics subset (CH ENGR 102A, MECH&AE 105A)
Subset 4b): Transport Phenomena (CH ENGR 101B, MECH&AE 105D)
Subset 5a): Systems (EC ENGR 102, MECH&AE 107) Subset 5b): Controls (CH ENGR 107, EC ENGR 141, MECH&AE 171A)
Subset 6): Circuits (EC ENGR 10, EC ENGR 100), (EC ENGR 100, EC ENGR 110)
Subset 7): Differential Equations (MATH 33B, MECH&AE 82)

For more information on subset restrictions and TBA’s. Please refer to: (https://www.seasoasa.ucla.edu/undergraduate-technical-breadth-area-tba/)
## AP/IB Exams

### AP Examination | Credit at UCLA

<table>
<thead>
<tr>
<th>Exam Name</th>
<th>Score</th>
<th>Subject</th>
<th>Title/Course #</th>
<th>Units</th>
<th>Requirements Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>3</td>
<td>CHEM</td>
<td>Introductory</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 or 5</td>
<td>CHEM</td>
<td>General</td>
<td>8</td>
<td>Chem 20A</td>
</tr>
<tr>
<td>English</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(8 unit max for both exams)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Language/Composition</td>
<td>3</td>
<td>ENGL</td>
<td>Unassigned</td>
<td>8</td>
<td>EW</td>
</tr>
<tr>
<td></td>
<td>4 or 5</td>
<td>ENGCOMP</td>
<td>3</td>
<td>8</td>
<td>EW, W1, Eng Comp 3</td>
</tr>
<tr>
<td>- Literature/Composition</td>
<td>3</td>
<td>ENGL</td>
<td>Unassigned</td>
<td>8</td>
<td>EW</td>
</tr>
<tr>
<td></td>
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<td>ENGCOMP</td>
<td>3</td>
<td>8</td>
<td>EW, W1, Eng Comp 3</td>
</tr>
<tr>
<td>Government and Politics</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>- US</td>
<td>3, 4, or 5</td>
<td>POL SCI</td>
<td>United States</td>
<td>4</td>
<td>AH</td>
</tr>
<tr>
<td>History</td>
<td></td>
<td></td>
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<tr>
<td>- US</td>
<td>3, 4, or 5</td>
<td>HIST</td>
<td>United States</td>
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<td>AH</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(8 unit max for both exams)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Calculus AB</td>
<td>3 or 4</td>
<td>MATH</td>
<td>Calculus</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>MATH</td>
<td>4 units which may be applied to Math 31A</td>
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<td>Math 31A</td>
</tr>
<tr>
<td>- Calculus BC</td>
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<td>Calculus</td>
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<tr>
<td></td>
<td>4</td>
<td>MATH</td>
<td>4 units which may be applied to Math 31A</td>
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<td>Math 31A</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>MATH</td>
<td>Math 31A + 4 units which may be applied to Math 31B</td>
<td>8</td>
<td>Math 31A, Math 31B</td>
</tr>
<tr>
<td>Physics</td>
<td></td>
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<tr>
<td>(8 unit max for all physics exams)</td>
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<tr>
<td>- Physics C: Mechanics</td>
<td>3</td>
<td>PHYSICS</td>
<td>General &quot;C&quot;</td>
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<tr>
<td>- Physics C: Mechanics</td>
<td>4 or 5</td>
<td>PHYSICS</td>
<td>May be used to satisfy Phys 1A</td>
<td>4</td>
<td>Physics 1A</td>
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</table>

### IB Examination | Credit at UCLA

<table>
<thead>
<tr>
<th>Exam Name</th>
<th>Score</th>
<th>Subject</th>
<th>Title/Course #</th>
<th>Units</th>
<th>Requirements Met</th>
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<tbody>
<tr>
<td>History</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Americas</td>
<td>5, 6, 7</td>
<td>HIST</td>
<td>Americas</td>
<td>8</td>
<td>AH</td>
</tr>
<tr>
<td><em>English</em></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- English: Literature</td>
<td>5, 6, 7</td>
<td>ENGCOMP</td>
<td>3</td>
<td>8</td>
<td>EW, W1, Eng Comp 3</td>
</tr>
<tr>
<td>Language A1 (native)</td>
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<td></td>
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</tr>
<tr>
<td>- English</td>
<td>5, 6, 7</td>
<td>ENGCOMP</td>
<td>3</td>
<td>8</td>
<td>EW, W1, Eng Comp 3</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Mathematics</td>
<td>5</td>
<td>MATH</td>
<td>Math 1 + 4 units unassigned credit</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>- Mathematics</td>
<td>6 or 7</td>
<td>MATH</td>
<td>Math 31A + 4 units which may be applied to Math 31B if IB Course covered topic</td>
<td>8</td>
<td>Math 31A, Math 31B</td>
</tr>
</tbody>
</table>

* A score of 6 or higher on the Standard Level (SL) English A: Literature exam and/or the Standard Level (SL) A1 English exam also satisfies EW, although it does not result in any course credit.

EW - Entry Level Writing Requirement, W1 - Writing 1, AH - American History and Institution Requirement

UCLA awards credit for Higher Level (HL) IB exams only.

For a full list of AP and IB scores UCLA accepts visit UCLA Admissions Prospective Students site. ([http://www.admission.ucla.edu/infoprospective.htm](http://www.admission.ucla.edu/infoprospective.htm))
Course Evaluations

If you are seeking course equivalence for a California Community College course, first check ASSIST (www.assist.org) to see if equivalence for the course already exists.

Continuing Samueli Engineering students who have completed 105 or more quarter units of college coursework (excluding AP/IB/A-Levels) may not earn any additional credit from any community college, nor can they receive any additional lower-division credit from any 4-year institution unless it is a UC campus.

NOTE on Simultaneous Enrollment: Attending UCLA regular session (Fall, Winter, or Spring) and another college (community college, UCLA Extension, or a four-year institution) at the same time - is not permitted. A student enrolled in UCLA Summer Sessions is allowed to transfer credit to UCLA for work done at another institution at the same time provided this work is part of the other institution’s summer term and has an end date later than UCLA’s summer quarter end date. Rules for transfer credit eligibility still apply.

For Math, Physics, Chemistry, Life Science, Statistics or English Composition courses which do not appear on www.assist.org:

You must submit a copy of the course outline or syllabus (including a list of the topics covered and textbook(s) used) to the respective undergraduate counseling office of the Math, Physics, Chemistry and Biochemistry, Life Sciences, Statistics or Writing Programs department as appropriate for evaluation:

• Math - go to 6356 Mathematical Sciences Building

• Physics - go to 1-707A Physics and Astronomy Building

• Chemistry - go to 4006 Young Hall

• Life Sciences – go to 222 Hershey Hall

• Statistics - go to 8117A Mathematical Sciences Building

• English Composition – go to 146 Humanities Building

If the course(s) are deemed equivalent, you must obtain written verification of this from the department office and submit the verification, along with your name and student I.D. number, to 6426 Boelter Hall or email to course_eval@seas.ucla.edu

Engineering/CS courses from CA community colleges that have been previously approved may appear on ASSIST (www.assist.org), so it is important to check. If a course does indeed appear on ASSIST, you do NOT need to submit this evaluation form; however, an official sealed transcript from the community college must be submitted to our office at 6426 Boelter Hall in order for credit to be posted to your DPR/degree Audit.

If you are planning to graduate within two quarters of completing the course(s) being evaluated, you MUST notify the degree auditors at degree_auditor@ea.ucla.edu of your plans in order to avoid a delay in receiving your degree.

If you’re unsure as to whether the course you are requesting to have evaluated is UC EAP (Education Abroad Program) approved, consult with the EAP Office and/or web site (http://www.ieo.ucla.edu/Eap/) about your options prior to submitting the course for evaluation. If the course is found to NOT be a UC EAP approved course, it will NOT be evaluated for UCLA credit. Please note that credit for an approved UC EAP course will be automatically posted to your DPR/Degree Audit by undergraduate admissions after you submit an official sealed transcript indicating that you've completed the course; however, this may take up to two months. You are advised to contact the engineering credit evaluators at course_eval@seas.ucla.edu when the credit appears on your DPR/Degree Audit so that engineering may appropriately update credit for approved course evaluations or petitions submitted to 6426 BH. Please also note that no more than 5 approved UC EAP courses may be applied to major requirements (i.e. engineering, computer science, technical electives from other departments). To receive full credit for a course taken abroad, the course must be approved and transfer as at least 3 quarter units.

Evaluation deadlines: There is really no "deadline", per se; however, the sooner you provide the information, the sooner you will find out the result of the evaluation. Thus, you will be able to decide upon the courses you will need to take.

It is expected that students take required courses and major electives on a letter grade basis (NOT pass/no pass).

Education Abroad

Consult with the EAP Office and/or web site about your options (i.e. where can you go to take engineering/CS courses, or GE courses, courses for an approved minor, or courses for your own interest, etc) When you have a plan and are ready to start the application process. Get an Academic Planning Form (and other application materials if appropriate) from the International Education Office (IEO).

Non-UC Education Abroad Programs: Students who wish to study abroad in non-UC Education Abroad Programs should: Visit the International Education Office (http://www.ieo.ucla.edu/nonucprograms/ B-300 Murphy Hall) for information.
**Undergraduate Research Program (URP)**

The purpose of URP is to help undergraduates secure research positions and communicate and publish their work.

**URP's resources includes:**
- Campus-wide portal, interactive workshops, periodic email blasts, and research postings

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**Academic Year Program**

Program spans the academic year & consists of several components:
- Enroll in the 99 or 199 course
- Technical Presentation Lab
- Poster Workshop
- Undergraduate Research Week Poster Day
- Publish in the URP Research Journal
- Optional professional development workshops and industry info sessions
- End of the year awards ceremony

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**Summer Undergraduate Research Program (SURP)**

SURP is an 8-week summer program that includes:
- Professional Development Workshops
- Faculty Research Talks
- Industry Tech Talks
- Weekly Progress Updates
- Poster Symposium
- Publish in SURP Research Journal
**Undergraduate Internship Program (UIP)**

UIP is a new initiative to assist undergraduates in searching and securing internships that could better prepare them in their careers.

- 63% of 2018 graduates completed industry internships
- 23 Career Fair related events with over 6650 engineering students attending
- Over 900 companies seeking UCLA engineering students

**Engineering 23 Seminar: How to Find an Industry Internship?**

Topics covered in this seminar:

- Search, solicit, and follow up on internship/job openings
- Create a resume and cover letter
- Practice a good elevator pitch
- Create online professional profile
- Establish a professional network
- Gain insights to the methods of interviewing

**Workshops and Support**

UIP offers multiple workshops and resources available to undergraduates throughout the academic year:

- Elevator Pitch Workshops
- LinkedIn & Handshake Workshops
- Career Fair Preparation Workshops
- Career Center @ Engineering Advising
- Peer Advising Drop-Ins @ the Engineering Student Resource Center
UCLA Career Center

The Career Center partners with the Samueli School of Engineering to provide engineering-specific career services for all undergraduate students. We provide the following services:

ENGINEERING CAREER COUNSELING SERVICES:
Monday through Friday, undergraduate engineering students can schedule an appointment with a STEM-focused counselor by logging onto their Handshake account (ucla.joinhandshake.com).

Engineering Career Liaison—Erin Haywood: ehaywood@career.ucla.edu

ENGINEERING CAREER DROP-INS:
Engineering students can participate in career drop-ins where they can meet with a Career Engagement Educator to discuss topics such as resumes, cover letters, and job/internship search strategies.

Every quarter (Weeks 1–4)
Thursdays, 12:30 PM–2:30 PM
Boelter Hall 6288

ENGINEERING CAREER DEVELOPMENT WORKSHOPS:
Engineering-specific workshops such as “How to Ace the Technical Interview” and “How to Prepare for the Engineering & Tech Fair” help students develop their skills, connect with industry professionals and explore career opportunities. The Career Center has also spearheaded “UCLA Tech 4 All”, an initiative to help centralize tech-related services and highlight intersections of tech with other industries and majors.

To explore more about UCLA Tech 4 All, please follow us on Facebook: @UCLATech4All
To RSVP for Career Center programs please log onto Handshake and click the “Events” tab.

Are you looking for engineering-specific jobs or internships? Join Handshake, UCLA’s career discovery platform designed to match you with opportunities based on your interests and skills. Log on to Handshake today to:

• Schedule an appointment with a counselor
• Register for career workshops
• Attend one of our recruiting events
• Explore career resources and assessments
• Connect with employers and your peers

Log on: ucla.joinhandshake.com | Learn more: career.ucla.edu/handshake
The UCLA Engineering Transfer Student Center provides resources and support to current engineering transfer students (etransfers), visibility and advocacy for the transfer community, and works with local community colleges to support the engineering pipeline. Our mission is to maximize the UCLA Samueli Engineering experience for engineering transfer students.

**Accelerator for UCLA Samueli Engineering students**

### Transfer Bridge to UCLA Samueli
3 weeks | September | 50 spots available
Advanced-learning content of 1st year courses, establish your cohort before walking into your first classroom, prepare for the fall Engineering and Technical Career Fair, learn about your community and important deadlines, culminating Hack-a-thon technical project competition.

### Transition Support
- Fall Welcome Reception & MentorSEAS Kick-off for eTransfers
- MentorSEAS transfer peer mentor
- eTransfer Student Pathways Guide

### Study Tables
Weekly upper-division engineering courses, co-hosted with engineering organizations, connect with other eTransfers students.

### Professional Development Workshops & Info-sessions

### Networking & Volunteer Opportunities
- Quarterly kick-off networking events for eTransfers
- eTransfer Student Alumni Speaker Series
- eTransfer Student Advisory Board

### Additional resources
- eTransfer Student website & Facebook page
- Conference room & study space
- eTransfer Student weekly newsletter

**Program highlights for prospective transfer students**

### UCLA Samueli Engineering Day for prospective community college transfers
Lab & workspace tours, eTransfer Student panel, UCLA Samueli Admissions presentation, and meet-and-greet reception.

### Transfer Student Summer Research Program
8 week summer academic research internship in a UCLA Samueli lab for community college students who plan to apply to UCLA Samueli. Closed to community college partners.

### Peer Learning: a hands-on engineering activity
UCLA Samueli student organizations provide training to develop engineering skills workshops at local community colleges.
The UCLA Women in Engineering Program

WE@UCLA

Engineering change

To enable the full participation, success, and advancement of women in engineering and computer science

The program facilitates academic and career success, including:

- Peer Mentorship
- Early Research/Internship
- Team Building Activities
- Professional/Leadership/Ethical development
- Alumni/Industry outreach

WE@UCLA is committed to maintaining an environment that enhances the personal and professional development of women, while pursuing an inclusive and supportive environment for all students in the UCLA Samueli School of Engineering

https://samueli.ucla.edu/women-in-engineering
THE UCLA SAMUELI OFFICE OF EXTERNAL AFFAIRS WORKS FOR YOU!

Our mission is to build enduring relationships that promote advocacy and financial support for our students, faculty and research efforts.

Tuition and state funds only cover 15% of your UCLA education. Private support is more important than ever to help bridge the gap, ensuring that you and future generations of Bruin Engineers receive a world-class experience.

How to Get Involved

- Join the UCLA Samueli Student Philanthropy Committee. Advocate for your school while honing your leadership and interpersonal skills!

- Join the Boelter Society, UCLA Engineering’s leadership giving society. With a gift of $100 each year, current students can get a head start on their philanthropic legacy and receive a number of tangible benefits, including invitations to exclusive events and networking opportunities.

To learn more about the Office of External Affairs and any student volunteer opportunities we offer, please contact us as hsseasgiving@support.ucla.edu.

@UCLA Engineering
@UCLAengineering
@UCLAengineering

Make your gift today by visiting giving.ucla.edu/engineering
The Office of Academic and Student Affairs is here to support your journey as a Bruin! Check out some of the workshops we have planned for the upcoming 2019-2020 school year!

**Quarterly Workshops**
- Setting S.M.A.R.T Goals in College
- Time Management Essentials for Engineers
- Mapping your College Journey
- Finding Motivation
- Strategies for Learning
- Weekly Change of Major Workshops

**Workshops offered in Fall Quarter only:**
- Samueli Scholarship Info Session
- Going Places: Study Abroad Info Session w/EAP

Stay tuned for dates and locations!

https://www.seasoasa.ucla.edu/oasa-workshops/
Counseling and Psychological Services

UCLA Samueli School of Engineering

Free, confidential, brief support for students within the School of Engineering

The UCLA Samueli School of Engineering is partnering with Counseling and Psychological Services (CAPS) to offer free, confidential, brief support for students within the School of Engineering. No appointment necessary and visits are first come, first serve. Speaking to a counselor in a confidential setting can help you access support, provide perspective, help you to explore resources and options, and discuss how counseling might be helpful.

Where: Boelter Hall, 6288-B

When: Weeks 5-10
Weds 10-12pm & Thurs 2-4pm
**Additional Resources**

**Health and Wellness**
UCLA Center for Accessible Education (CAE)  
http://www.cae.ucla.edu/
Counseling and Psychological Services (CAPS)  
http://www.counseling.ucla.edu
UCLA Arthur Ashe Student Health & Wellness Center  
http://www.studenthealth.ucla.edu/default.aspx

**Advising**
Visit your Academic Counselor at 6426 Boelter Hall  
http://www.seasoasa.ucla.edu/staff
Faculty advising  
https://my.engineering.ucla.edu/user/loginHome.php
Degree Audit Report System (DARS)  
http://www.seasoasa.ucla.edu/undergraduates/DARS
UCLA CCLE Shared System  
https://ccle.ucla.edu/
My Engineering  
https://my.engineering.ucla.edu/

**Campus Resources**
Career Center  
http://www.career.ucla.edu/
Academic Advancement Program (AAP)  
http://www.aap.ucla.edu/programs/counseling/
UCLA First to Go  
http://firsttogo.ucla.edu/
MyUCLA  
http://www.my.ucla.edu/
Dean of Students  
http://www.deanofstudents.ucla.edu
UCLA Veteran Affairs  
https://www.veterans.ucla.edu/
Student Legal Services  
https://www.studentlegal.ucla.edu/
Athletics  
International Education Office  
http://www.ieo.ucla.edu/
Dashew Center for International Students and Scholars  
http://www.internationalcenter.ucla.edu/

**Transfer Student Resources**
UCLA Transfer Center  
http://www.transfers.ucla.edu/
Engineering Transfer Center  
https://etransfercenter.seas.ucla.edu/

**Registration Support**
Registrars  
http://www.registrar.ucla.edu/
Financial Aid  
http://www.financialaid.ucla.edu/

**Student Organizations**
Tau Beta Pi Honor Society Tutoring  
https://tbp.seas.ucla.edu/tutoring/
Engineering Student Groups  
http://engineering.ucla.edu/student-clubs/

**UCLA Samueli School of Engineering**
UCLA Samueli School of Engineering  
https://samueli.ucla.edu/
Women in Engineering (WE@UCLA)  
https://samueli.ucla.edu/women-in-engineering/
Center for Excellence in Engineering and Diversity (CEED)  
https://www.ceed.ucla.edu/
Scholarships  
https://samueli.ucla.edu/scholarships
Office of Academic and Student Affairs  
https://www.seasoasa.ucla.edu/
Office of Academic and Student Affairs
6426 Boelter Hall
For more information contact James Washington
jaw@seas.ucla.edu