SIMULTANEOUS DEGREES

A simultaneous degree is the pursuit of two majors in two different colleges or schools at UC Berkeley. Students pursuing a simultaneous degree must complete all college/schools and major requirements for both programs. Applications for a simultaneous degree will be considered only when all of the following requirements have been met:

1. At least two semesters have been completed at UC Berkeley at time of application (transfer students may apply during their second semester).
2. No more than two upper division courses (used to satisfy major requirements) may overlap between the two programs. Note: there is no limit on the number of courses used to satisfy breadth or humanities requirements that may overlap.
3. Planned program includes all requirements for both majors and colleges.
4. If a 9th semester is required (5th for transfer students) then the request for the additional semester must be made at the time of application. Consult with your Engineering Student Services (ESS) Adviser for more information on the 9th (5th) semester for simultaneous degree students.
5. Applicants from a school or college other than Engineering must have an overall and technical GPA of 3.0 or higher. (Note: The minimum GPA for consideration is 3.0. Applications are reviewed for acceptance by the department to which a student applies and some have a higher GPA requirement.)

Applications for a simultaneous degree must be submitted a minimum of two semesters prior to the anticipated date of graduation. The application must be approved by Deans of both colleges/schools to which you are applying. Review the instructions on the application for information on obtaining the necessary approvals and signatures and consult with your ESS Adviser if you have question. For a list of the other colleges and their office locations, please refer to the website www.berkeley.edu/academics.

MINORS

Minor programs are areas of concentration requiring fewer courses than an undergraduate major. These programs are optional, but can provide depth and breadth to a UC Berkeley education. The College of Engineering does not offer additional time to complete a minor, but it is usually possible to finish within the allotted time with careful course planning. Students are encouraged to meet with their Academic Adviser (SAA) to discuss the feasibility of completing a minor program.

All the engineering departments offer minors. Students may also consider pursuing a minor in another school or college. Students who are interested in a minor get information about the requirements and admission standards from the department offering the minor. For a list of minors in the College of Engineering and links to minors offered in other schools and colleges visit http://coe.berkeley.edu/students/current-undergraduate/degree-options/minors.html.

Transfer Credit and AP Credit

TRANSFER CREDIT

The Office of Undergraduate Admissions determines the units of credit to be allowed for work successfully completed at another institution. Students who have questions about transferability of units should visit the Office of Undergraduate Admissions in 103 Sproul Hall. The Engineering Student Services Office evaluates transfer work in terms of subject credit (which, if any, requirements the courses can fulfill).

Unit Credit

The maximum number of units which a student can transfer to the University from a community college is 70 semester units. Students may receive subject credit for courses taken at a community college beyond the 70 unit maximum.

Subject Credit

For courses taken at a California Community College, the Assist website defines which (if any) requirement each course can satisfy. Students should use the Assist website to determine equivalencies for courses taken at California Community Colleges. Courses taken at 4 year institutions (including other UC schools) and at community colleges outside California must be evaluated before subject credit can be awarded. To have a course evaluated students must provide a syllabus; evaluations cannot be done on the basis of course descriptions alone. Students bring a copy of the syllabus to their Engineering Student Services (ESS) Adviser in 230 Bechtel Hall. Technical classes will be evaluated by a faculty representative of the course in question.

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ATTENDANCE AT OTHER SCHOOLS AFTER ENROLLMENT AT UC BERKELEY

Once a student begins their education in the College of Engineering, attendance at any institution other than UC Berkeley requires permission. Students who wish to take courses at another school in the summer (or in a semester they are not enrolled at UC Berkeley) must consult with their Engineering Student Services (ESS) Adviser before registering for courses at any school other than UC Berkeley. Students will not receive credit for courses taken at other colleges unless they receive approval prior to taking the non-UC Berkeley course. Permission to enroll elsewhere during summer is generally granted.

Students who wish to attend a school other than UC Berkeley must complete the Courses at another School petition and meet with their Engineering Student Services (ESS) Adviser in a scheduled or drop-in appointment.

Students may not enroll during a Fall or Spring semester at another school while simultaneously enrolled at the University.

ADVANCED PLACEMENT CREDIT

Below are the tests and scores needed to fulfill UC Berkeley and/or College of Engineering requirements. For the Humanities/Social Science requirement, no more than two of the required six courses can be satisfied by AP, IB or A-Level exams. There is no limit on the number of AP exams that can be used to satisfy technical requirements. NOTE: AP credit will not be awarded if the test is taken after enrolling at UC Berkeley.

Art History AP
SCORE: 3, 4, 5
UC BERKELEY UNITS: 5.3 units
REQUIREMENT FULFILLED: One lower division Humanities/Social Science

Biology AP
SCORE: 4 or 5
UC BERKELEY UNITS: 5.3 units
REQUIREMENTS FULFILLED: Biology 1A/1AL and Biology 1B.

Chemistry AP
SCORE: 3 or better
UC BERKELEY UNITS: 5.3 units
REQUIREMENT FULFILLED: Chemistry 1A. If your major requires Chemistry 1B, the Chemistry Department strongly recommends enrolling in Chemistry 1A before taking Chemistry 1B.

Computer Science AP
SCORE: 4 or 5 on the "A" test
UC BERKELEY UNITS: 1.3 units
REQUIREMENT FULFILLED: None

SCORE: 3 on the "AB" test
UC BERKELEY UNITS: 2.7 units
REQUIREMENT FULFILLED: None

SCORE: 4 or 5 on the "AB" test
UC BERKELEY UNITS: 2.7 units
REQUIREMENT FULFILLED: CS 61B. Note: A score of 4 or 5 on this exam does NOT ever exempt a student from completing CS 61A; the only requirement that this AP exam satisfies is CS 61B. Students with a major that requires CS 61A must complete CS 61A.

Economics AP (Macro)
SCORE: 3, 4, 5
UC BERKELEY UNITS: 2.7 units each
REQUIREMENT FULFILLED: One lower division Humanities/Social science

Economics AP (Micro)
SCORE: 3, 4, 5
UC BERKELEY UNITS: 2.7 units each
REQUIREMENT FULFILLED: One lower division Humanities/Social science
English AP (Language or Literature)
SCORE: 3
UC BERKELEY UNITS: 5.3 units (units will only be awarded for one test)
REQUIREMENT FULFILLED: Entry Level Writing Requirement only.

SCORE: 4 or 5
UC BERKELEY UNITS: 5.3 units (units will only be awarded for one test)
REQUIREMENT FULFILLED: Reading and Composition “A”

History AP (American, European or World)
SCORE: 3, 4, 5
UC BERKELEY UNITS: 5.3 units
REQUIREMENT FULFILLED: One lower division Humanities/Social Science for each exam (up to the maximum allowable of two AP exams).

Latin AP (Vergil and CAT/HRC)
SCORE: 3, 4, 5
UC BERKELEY UNITS: 2.7 each
REQUIREMENT FULFILLED: None

Mathematics AP (AB Exam)
SCORE: 3 or better
UC BERKELEY UNITS: 2.7 units
REQUIREMENT FULFILLED: Math 1A. Note: Students with a score of 3 should consider taking Math 1A.

Mathematics AP (BC Exam)
SCORE: 3
UC BERKELEY UNITS: 5.3 units. (The maximum units awarded for Math AP exams is 5.3. Students who pass both the AB and BC exams will receive 5.3 units total.)
REQUIREMENT FULFILLED: Math 1A

Mathematics AP (BC Exam)
SCORE: 4, 5
UC BERKELEY UNITS: 5.3 units. (The maximum units awarded for Math AP exams is 5.3. Students who pass both the AB and BC exams will receive 5.3 units total.)
REQUIREMENT FULFILLED: Math 1A & Math 1B. Students with a score 4 are strongly advised to complete Math 1B.

Music AP
SCORE: 3, 4, 5
UC BERKELEY UNITS: 5.3 units
REQUIREMENT FULFILLED: None

Physics AP (Mechanics C Exam)
SCORE: 5
UC BERKELEY UNITS: 2.7
REQUIREMENT FULFILLED: Physics 7A

Political Science AP (American and Comparative)
American Government
SCORE: 3, 4 or 5
UC BERKELEY UNITS: 2.7
REQUIREMENT FULFILLED: One lower division Humanities/Social Science

Comparative Government
SCORE: 3, 4 or 5
UC BERKELEY UNITS: 2.7
REQUIREMENT FULFILLED: One lower division Humanities/Social Science

Psychology AP
SCORE: 3, 4, 5
UC BERKELEY UNITS: 2.7
REQUIREMENT FULFILLED: One lower division Humanities/Social Science
Spanish, French or German Language AP  
SCORE: 3, 4, 5  
UC BERKELEY UNITS: 5.3 units each  
REQUIREMENT FULFILLED: NONE

Spanish, French or German Literature AP  
SCORE: 3, 4, 5  
UC BERKELEY UNITS: 5.3 units  
REQUIREMENT FULFILLED: One lower division Humanities/Social Science

Statistics AP  
SCORE: 3, 4, 5  
UC BERKELEY UNITS: 2.7 units  
REQUIREMENT FULFILLED: NONE

NOTE: If a student takes a course at UC Berkeley (or another institution) for which AP credit has been awarded, this is considered a duplication of credit. The AP unit credit will be subject to partial or complete removal by the College of Engineering when duplication of credit is determined.

INTERNATIONAL BACCALAUREATE EXAMS

1. IB Higher Level exams completed with a grade of 5, 6 or 7 (except for Physics) are awarded 5.3 semester units of work, unless completed as part of the diploma whereby a maximum 20 units is awarded.
2. No credit is given for IB Subsidiary or Standard Level exams
3. No duplication of credit will be given for IB, AP, A-level and community college credit.
4. In order to receive subject credit for IB exams, students must give a copy of the exam scores to their Student Academic Adviser in 230 Bechtel Hall.

<table>
<thead>
<tr>
<th>Exam Name</th>
<th>Requirement Fulfilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art/Design</td>
<td>One lower division Humanities/Social Science</td>
</tr>
<tr>
<td>Biology</td>
<td>Biology 1A/1AL and Biology 1B</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chemistry 1A</td>
</tr>
<tr>
<td>Computer Science</td>
<td>CompSci. 61B if student completes CS 47B at UCB</td>
</tr>
<tr>
<td>Economics</td>
<td>One lower division Humanities/Social Science</td>
</tr>
<tr>
<td>English A1</td>
<td>Entry Level Writing &amp; Reading &amp; Comp “A”</td>
</tr>
<tr>
<td>English A2</td>
<td>One lower division Humanities/Social Science</td>
</tr>
<tr>
<td>English B</td>
<td>NONE</td>
</tr>
<tr>
<td>French A1 or A2</td>
<td>One lower division Humanities/Social Science</td>
</tr>
<tr>
<td>French B</td>
<td>NONE</td>
</tr>
<tr>
<td>Geography</td>
<td>One lower division Humanities/Social Science</td>
</tr>
<tr>
<td>German A1 or A2</td>
<td>NONE</td>
</tr>
<tr>
<td>German B</td>
<td>One lower division Humanities/Social Science</td>
</tr>
<tr>
<td>Classical Greek</td>
<td>NONE</td>
</tr>
<tr>
<td>History of the Americas</td>
<td>One lower division Humanities/Social Science</td>
</tr>
<tr>
<td>European History</td>
<td>American History &amp; Institutions, and one lower division</td>
</tr>
<tr>
<td>Latin</td>
<td>Humanities/Social Science</td>
</tr>
<tr>
<td>Math</td>
<td>Math 1A and Math 1B</td>
</tr>
<tr>
<td>Music</td>
<td>One lower division Humanities/Social Science</td>
</tr>
<tr>
<td>Philosophy</td>
<td>NONE</td>
</tr>
<tr>
<td>Physics</td>
<td>One lower division Humanities/Social Science</td>
</tr>
<tr>
<td>Portuguese A1 or A2</td>
<td>NONE</td>
</tr>
<tr>
<td>Portuguese B</td>
<td>One lower division Humanities/Social Science</td>
</tr>
<tr>
<td>Spanish A1 or A2</td>
<td>NONE</td>
</tr>
<tr>
<td>Spanish B</td>
<td>One lower division Humanities/Social Science</td>
</tr>
<tr>
<td>Theater</td>
<td></td>
</tr>
</tbody>
</table>
**A-LEVEL EXAMS**

**Units**

Score of A (1), B (2) or C (3) is needed

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
<th>Requirement Fulfilled</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Accounting</strong></td>
<td>8</td>
<td>NONE</td>
</tr>
<tr>
<td>(All examining boards)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Biology</strong></td>
<td>8</td>
<td>Satisfies Biology 1A/1AL and Biology 1B</td>
</tr>
<tr>
<td>(Singapore Cambridge, Hong Kong, U of London, Oxford-Cambridge)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Chemistry</strong></td>
<td>8</td>
<td>Satisfies Chemistry 1A. Score of A (1) satisfies Chemistry 1A and 1B</td>
</tr>
<tr>
<td><strong>Computer Science</strong></td>
<td>8</td>
<td>If programming language is C or C++, then it satisfies CS 61B. Note: This exam does NOT exempt a student from completing CS 61A.</td>
</tr>
<tr>
<td>(Singapore Cambridge, Assoc. Examining Board, Oxford-Cambridge)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Economics</strong></td>
<td>8</td>
<td>One lower division Humanities/Social Science</td>
</tr>
<tr>
<td>(Hong Kong, U of London, Oxford-Cambridge, Singapore Cambridge)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>English Literature</strong></td>
<td>8</td>
<td>Reading and Composition “A”</td>
</tr>
<tr>
<td>(All examining boards)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Physics</strong></td>
<td>0</td>
<td>NONE</td>
</tr>
<tr>
<td><strong>Religious Studies</strong></td>
<td>8</td>
<td>One lower division Humanities/Social Science</td>
</tr>
<tr>
<td>(All examining boards)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Math</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Examining Boards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Maximum allowable units is 8 for Math exams.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Math H1</td>
<td>8</td>
<td>Satisfies Math 1A</td>
</tr>
<tr>
<td>Math H2</td>
<td>8</td>
<td>Satisfies Math 1A and Math 1B</td>
</tr>
<tr>
<td>Math H3</td>
<td>8</td>
<td>Satisfies Math 1A and Math 1B</td>
</tr>
<tr>
<td>Pure Math</td>
<td>8</td>
<td>Satisfies Math 1A and Math 1B</td>
</tr>
<tr>
<td>Further Math</td>
<td>8</td>
<td>Satisfies Math 1A and Math 1B</td>
</tr>
</tbody>
</table>

**Other Credit/Courses/Programs**

**EDUCATION ABROAD PROGRAM**

Study Abroad is an option in which many College of Engineering undergraduates are interested and we encourage participation as a means of broadening education and developing a global view of engineering. International study requires a good deal of planning, organization and self-motivation to be successful, but the benefits are well worth the effort. Students may choose to study abroad by participating in the [UC Education Abroad Program (EAP)](https://www.ucop.edu/study-abroad.html) or in a [non-UC sponsored program](https://www.ucop.edu/study-abroad/non-uc-sponsored-programs.html). Study Abroad Programs are offered for one semester, a full academic year or a summer session. Interested students should begin researching country and program options early in their academic career. With careful planning many students can complete a study abroad program without delaying their graduation, however, students who participate in a study abroad program will be granted one additional semester to complete their degree requirements if needed.

Students need the approval of their Engineering Student Services (ESS) Adviser to participate in a study abroad program. Advisers will verify that students are making normal progress toward their degree, and that the time abroad won’t prevent completion of the College of Engineering requirements in a timely manner. Visit the [EAP section of our website](https://www.ucop.edu/study-abroad/uc-education-abroad-program.html) for further information about College of Engineering policy and procedures for study abroad participation.