

# Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Berkeley  
2022-2023 General Catalog, Semester

From: De Anza College  
2022-2023 General Catalog, Quarter

## Civil Engineering, Lower Division B.S.

### COLLEGE OF ENGINEERING JUNIOR TRANSFER ADMISSION REQUIREMENTS

Admission to the UC Berkeley **College of Engineering** is highly competitive.

Applicants to the **Civil Engineering** major must complete all required core UCB preparation courses in order to be eligible for admission. Only applicants who have completed 100% of these required courses will be considered for admission. Required courses for admission to the major must be completed by the end of the spring semester prior to fall enrollment. **A summer 2023 course is not considered to be "work in progress" for the fall 2023 selection process.**

If a series of courses at a community college is required (e.g., English 1A + 1B + 103 = English R1A and R1B), all the courses in the series must be completed, and must (unless otherwise indicated) be completed at the same community college. Partial completion (e.g., 2 of the 3 required courses) will result in zero credit toward the requirement(s), and the applicant will NOT be considered for admission. The only exception to the series rule is Math 54. If Math 54 is split into two different courses, one covering linear algebra and one covering differential equations, we strongly encourage applicants to take both courses at the same community college; however, the College of Engineering will accept linear algebra from one school and differential equations from a different school.

Lower division UC Berkeley courses required for graduation (but not admission) are also listed in the major agreements and are strongly recommended to be taken to strengthen one's application. The more of these courses completed, the stronger the application will be.

**Required core courses for admission: (all these courses must be completed to be considered for admission)**

- UCB CHEM 1A
- UCB CHEM 1B or BIOLOGY 1B or CIV ENG 70
- UCB MATH 1A; 1B; 53; 54
- UCB PHYSICS 7A; 7B
- UCB ENGLISH R1A; R1B

**Strongly recommended courses: (if your college offers the courses listed below and they are articulated, taking them will strengthen your application)** If no articulation, students are strongly encouraged to take a course in statics AND a course in Computer Programming.

- UCB CIV ENG 11; C30; 60; 93
- UCB ENGIN 7
- UCB MEC ENG 40 or ENGIN 40

Admission is primarily based on the completeness of the applicant's lower division preparation and the level of academic achievement reflected in the student's grade point average. The UC applicant essay also plays an important role in the selection process at UC Berkeley. The College reviews the essay for evidence of interest in the student's chosen field and a thoughtful match between the academic program and the student's academic and career objectives.

The College of Engineering requires six humanities/social science courses, two of which must be reading and composition. The only non-technical admission requirement for the College of Engineering is the coursework equivalent to UC Berkeley's English R1A and R1B (reading and composition), which must be taken for a letter grade. The College of Engineering **does not recognize the Intersegmental General Education Transfer Curriculum (IGETC) and strongly discourages** students from following this option due to the number of major-specific technical courses required for engineering transfer admission.

**NOTE:** The English R1A and R1B requirements cannot be satisfied by IGETC; applicants must complete the specific courses indicated as English R1A and R1B equivalents to be considered for admission. Failure to complete the exact courses listed will mean the applicant will NOT be considered for admission.

The remaining four humanities/social science requirement courses are not considered for admission purposes but are required for graduation. See <http://engineering.berkeley.edu/hss> for the College of Engineering humanities/social science breadth requirements and courses. Courses which are three semester units or more that appear in the following categories on the "General Education/Breadth" section of [assist.org](http://assist.org) may be used to satisfy **two of** the remaining four humanities/social science course requirements for the College of Engineering. ARTS AND LITERATURE; HISTORICAL STUDIES; INTERNATIONAL STUDIES; PHILOSOPHY AND VALUES; SOCIAL AND BEHAVIORAL SCIENCES. Additionally, courses that teach a foreign language may be used to satisfy this requirement.

SAT/ACT/A-level test scores and letters of recommendation are NOT considered for admission.

**NOTE: ALL REQUIRED COURSES AND ALL STRONGLY RECOMMENDED COURSES FOR THE MAJOR MUST BE TAKEN FOR A LETTER GRADE. FOR MORE INFORMATION, PLEASE CHECK THE COLLEGE'S WEB SITE FOR THE COLLEGE OF ENGINEERING UNDERGRADUATE GUIDE.**

**For more information:**

<http://engineering.berkeley.edu/admissions/undergraduate-admissions>

**College of Engineering Undergraduate Guide:**

<http://engineering.berkeley.edu/academics/undergraduate-guide>

**For more information on Civil Engineering:**

<http://www.ce.berkeley.edu>

**For more information on admission to UC Berkeley:**

<http://admissions.berkeley.edu>

**For more information on majors at UC Berkeley:**

<http://guide.berkeley.edu>

**TEST CREDIT**

Some Advanced Placement, International Baccalaureate, and A-Level exams can fulfill requirements in the College of Engineering. For details, please see <https://engineering.berkeley.edu/students/undergraduate-guide/exams/>.

**REQUIRED COURSES FOR ADMISSION**

**\*\*REFER TO TOP OF AGREEMENT\*\***

**CHEM 1A** - General Chemistry (3.00)

--- And ---

**CHEM 1AL** - General Chemistry Laboratory (2.00)

← Articulates as a Series Only

**CHEM 1A** - General Chemistry (3.00)

--- And ---

**CHEM 1AL** - General Chemistry Laboratory (2.00)

--- And ---

**CHEM 1B** - General Chemistry (4.00)

←

**CHEM 1A** - General Chemistry (5.00)

--- And ---

**CHEM 1B** - General Chemistry (5.00)

--- And ---

**CHEM 1C** - General Chemistry and Qualitative Analysis (5.00)

- *Regular and honors courses may be combined to complete this series*

--- Or ---

**CHEM 1AH** - General Chemistry - HONORS (5.00)

--- And ---

**CHEM 1BH** - General Chemistry - HONORS (5.00)

--- And ---

**CHEM 1CH** - General Chemistry and Qualitative Analysis - HONORS (5.00)

- *Regular and honors courses may be combined to complete this series*

**Select 1 Course(s) from the following**

**CHEM 1B** - General Chemistry (4.00)

← Articulates as a Series Only

**CHEM 1A** - General Chemistry (3.00)

--- And ---

**CHEM 1AL** - General Chemistry Laboratory (2.00)

--- And ---

**CHEM 1B** - General Chemistry (4.00)



**CHEM 1A** - General Chemistry (5.00)

--- And ---

**CHEM 1B** - General Chemistry (5.00)

--- And ---

**CHEM 1C** - General Chemistry and Qualitative Analysis (5.00)

- *Regular and honors courses may be combined to complete this series*

--- Or ---

**CHEM 1AH** - General Chemistry - HONORS (5.00)

--- And ---

**CHEM 1BH** - General Chemistry - HONORS (5.00)

--- And ---

**CHEM 1CH** - General Chemistry and Qualitative Analysis - HONORS (5.00)

- *Regular and honors courses may be combined to complete this series*

--- Or ---

**BIOLOGY 1B** - General Biology (Plant Form & Function, Ecology, Evolution) (4.00)



**BIOL 6A** - Form and Function in the Biological World (6.00)

--- And ---

**BIOL 6C** - Ecology and Evolution (6.00)

--- Or ---

**BIOL 6AH** - Form and Function in the Biological World - HONORS (6.00)

--- And ---

**BIOL 6C** - Ecology and Evolution (6.00)

--- Or ---

**BIOL 6A** - Form and Function in the Biological World (6.00)

--- And ---

**BIOL 6CH** - Ecology and Evolution - HONORS (6.00)

--- Or ---

**BIOL 6AH** - Form and Function in the Biological World - HONORS (6.00)

--- And ---

**BIOL 6CH** - Ecology and Evolution - HONORS (6.00)

**BIOLOGY 1A** - General Biology Lecture (Cells, Genetics, Animal Form & Function) (3.00)

--- And ---

**BIOLOGY 1AL** - General Biology Laboratory (2.00)

--- And ---

**BIOLOGY 1B** - General Biology (Plant Form & Function, Ecology, Evolution) (4.00)



Articulates as Course-to-Course Only

--- Or ---

**CIV ENG 70** - Engineering Geology (3.00)



**GEOL 10** - Introductory Geology (5.00)

<b>MATH 1A</b> - Calculus (4.00)	←	<div> <b>MATH 1A</b> - Calculus (5.00)           <div>--- And ---</div> <b>MATH 1B</b> - Calculus (5.00)           <ul style="list-style-type: none"> <li><i>Regular and honors courses may be combined to complete this series</i></li> </ul> </div> <div>--- Or ---</div> <div> <b>MATH 1AH</b> - Calculus - HONORS (5.00)           <div>--- And ---</div> <b>MATH 1BH</b> - Calculus - HONORS (5.00)           <ul style="list-style-type: none"> <li><i>Regular and honors courses may be combined to complete this series</i></li> </ul> </div>
<b>MATH 1B</b> - Calculus (4.00)	←	<div> <b>MATH 1B</b> - Calculus (5.00)           <div>--- And ---</div> <b>MATH 1C</b> - Calculus (5.00)           <ul style="list-style-type: none"> <li><i>Regular and honors courses may be combined to complete this series</i></li> </ul> </div> <div>--- Or ---</div> <div> <b>MATH 1BH</b> - Calculus - HONORS (5.00)           <div>--- And ---</div> <b>MATH 1CH</b> - Calculus - HONORS (5.00)           <ul style="list-style-type: none"> <li><i>Regular and honors courses may be combined to complete this series</i></li> </ul> </div>
<b>MATH 53</b> - Multivariable Calculus (4.00)	←	<div> <b>MATH 1C</b> - Calculus (5.00)           <div>--- And ---</div> <b>MATH 1D</b> - Calculus (5.00)           <ul style="list-style-type: none"> <li><i>Regular and honors courses may be combined to complete this series</i></li> </ul> </div> <div>--- Or ---</div> <div> <b>MATH 1CH</b> - Calculus - HONORS (5.00)           <div>--- And ---</div> <b>MATH 1DH</b> - Calculus - HONORS (5.00)           <ul style="list-style-type: none"> <li><i>Regular and honors courses may be combined to complete this series</i></li> </ul> </div>
<b>MATH 54</b> - Linear Algebra and Differential Equations (4.00)	←	<div> <b>MATH 2A</b> - Differential Equations (5.00)           <div>--- And ---</div> <b>MATH 2B</b> - Linear Algebra (5.00)           <ul style="list-style-type: none"> <li><i>Regular and honors courses may be combined to complete this series</i></li> </ul> </div> <div>--- Or ---</div> <div> <b>MATH 2AH</b> - Differential Equations - HONORS (5.00)           <div>--- And ---</div> <b>MATH 2BH</b> - Linear Algebra - HONORS (5.00)           <ul style="list-style-type: none"> <li><i>Regular and honors courses may be combined to complete this series</i></li> </ul> </div>

<b>PHYSICS 7A</b> - Physics for Scientists and Engineers (4.00)	←	<b>PHYS 4A</b> - Physics for Scientists and Engineers: Mechanics (6.00)
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<b>PHYSICS 7B</b> - Physics for Scientists and Engineers (4.00)	←	<b>PHYS 4B</b> - Physics for Scientists and Engineers: Electricity and Magnetism (6.00) <div>--- And ---</div> <b>PHYS 4C</b> - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)
--- Or ---		
<b>PHYSICS 7A</b> - Physics for Scientists and Engineers (4.00) <div>--- And ---</div> <b>PHYSICS 7B</b> - Physics for Scientists and Engineers (4.00)	←	Articulates as Course-to-Course Only
--- Or ---		
<b>PHYSICS 7A</b> - Physics for Scientists and Engineers (4.00) <div>--- And ---</div> <b>PHYSICS 7B</b> - Physics for Scientists and Engineers (4.00) <div>--- And ---</div> <b>PHYSICS 7C</b> - Physics for Scientists and Engineers (4.00)	←	Articulates as Course-to-Course Only

<b>ENGLISH R1A</b> - Reading and Composition (4.00)	←	<b>EWRT 1A</b> - Composition and Reading (5.00) <div>--- Or ---</div> <b>EWRT 1AH</b> - Composition and Reading - HONORS (5.00) <div>--- Or ---</div> <b>ESL 5</b> - Advanced Composition and Reading (5.00)
<b>ENGLISH R1B</b> - Reading and Composition (4.00)	←	<b>EWRT 1B</b> - Reading, Writing and Research (5.00) <div>--- Or ---</div> <b>EWRT 2</b> - Critical Reading, Writing and Thinking (5.00) <div>--- Or ---</div> <b>EWRT 1BH</b> - Reading, Writing and Research - HONORS (5.00) <div>--- Or ---</div> <b>EWRT 2H</b> - Critical Reading, Writing and Thinking - HONORS (5.00)

### STRONGLY RECOMMENDED COURSES

<b>**REFER TO TOP OF AGREEMENT**</b>		
<b>CIV ENG 11</b> - Engineered Systems and Sustainability (3.00)	←	No Course Articulated
<b>CIV ENG C30</b> - Introduction to Solid Mechanics (3.00) Same-As: MEC ENG C85	←	No Course Articulated
<b>CIV ENG 60</b> - Structure and Properties of Civil Engineering Materials (3.00)	←	No Course Articulated
<b>CIV ENG 93</b> - Engineering Data Analysis (3.00)	←	No Course Articulated
<b>ENGIN 7</b> - Introduction to Computer Programming for Scientists and Engineers (MATLAB) (4.00)	←	No Course Articulated
<b>MEC ENG 40</b> - Thermodynamics (3.00)	←	No Course Articulated
--- Or ---		
<b>ENGIN 40</b> - Engineering Thermodynamics (4.00)	←	No Course Articulated

**END OF AGREEMENT**