# **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

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

From: Pasadena City College 2022-2023 General Catalog, Semester

## **Electrical Engineering & Computer Sciences, 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 **Electrical Engineering and Computer Sciences** major must complete all <u>required</u> core UCB preparation courses in order to be eligible for admission. Only applicants who have completed 100% of these <u>required</u> 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), <u>all</u> the courses in the series <u>must</u> be completed, and <u>must</u> (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 MATH 1A; 1B; 53; 54
- UCB PHYSICS 7A; 7B
- UCB ENGLISH R1A; R1B
- One from UCB ASTRON 7A or 7B or BIOLOGY 1A/1AL or BIOLOGY 1B or CHEM 1A/1AL or CHEM 1B or CHEM 3A/3AL or CHEM 3B/3BL or MCELLBI 32/32L or PHYSICS 7C

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 encouraged to take an introductory course in electronics or circuits AND courses in Java, C++ and Data Structures.

- UCB COMPSCI 61A; 61B; 61C; 70
- UCB EECS 16A; 16B

#### Articulation subject to completion of a university course

If the above statement is indicated under any of the community college courses listed below, you will be required to take an additional course at UC Berkeley in order to complete the requirement.

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 <u>cannot</u> be satisfied by IGETC; applicants <u>must</u> 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 <a href="http://engineering.berkeley.edu/hss">http://engineering.berkeley.edu/hss</a> 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 <a href="https://engineering.gov/assist.org">assist.org</a> may be used to satisfy <a href="https://engineering.gov/assist.org">https://engineering.gov/assist.org</a> 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 Electrical Engineering & Computer Science:

http://www.eecs.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**

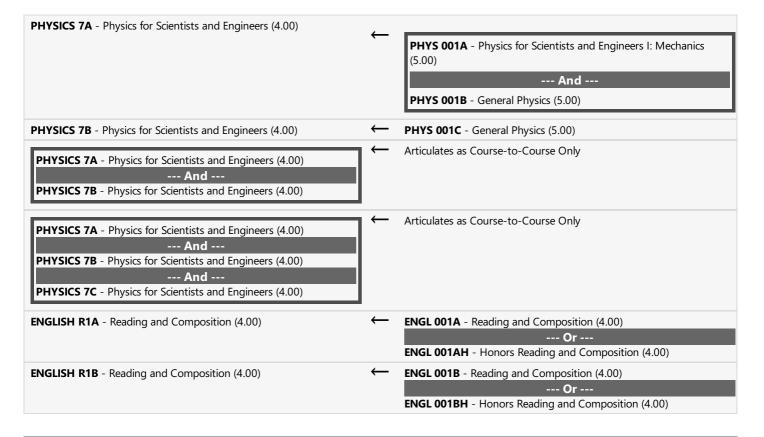
Some Advanced Placement, International Baccalaureate, and A-Level exams can fulfill requirements in the College of Engineering. For details, please see <a href="https://engineering.berkeley.edu/students/undergraduate-guide/exams/">https://engineering.berkeley.edu/students/undergraduate-guide/exams/</a>.

# **REQUIRED COURSES FOR ADMISSION** MATH 005A - Single Variable Calculus I (5.00) **MATH 1A** - Calculus (4.00) --- Or ---MATH 005AH - Honors Single Variable Calculus I (5.00) **MATH 1B** - Calculus (4.00) MATH 005B - Single Variable Calculus II (5.00) --- And ---MATH 055 - Differential Equations (4.00) Regular and honors courses may be combined to complete this series --- Or ---MATH 005BH - Honors Single Variable Calculus II (5.00) --- And ---MATH 055H - Honors Differential Equations (4.00) Regular and honors courses may be combined to complete this series MATH 53 - Multivariable Calculus (4.00) MATH 005C - Multivariable Calculus (5.00) --- Or ---MATH 005CH - Honors Multivariable Calculus (5.00) MATH 54 - Linear Algebra and Differential Equations (4.00) MATH 010 - Linear Algebra and Applications (4.00) --- And ---MATH 055 - Differential Equations (4.00) Regular and honors courses may be combined to complete --- Or ---MATH 010H - Honors Linear Algebra and Applications (4.00)

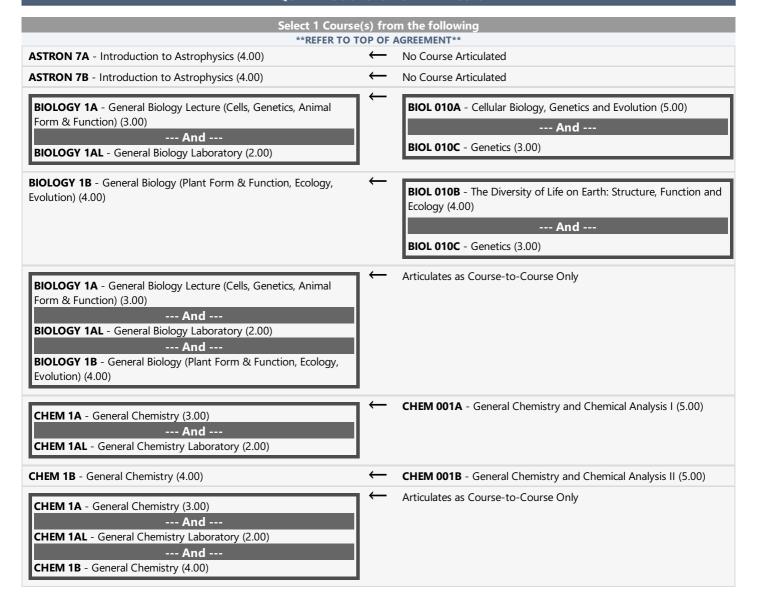
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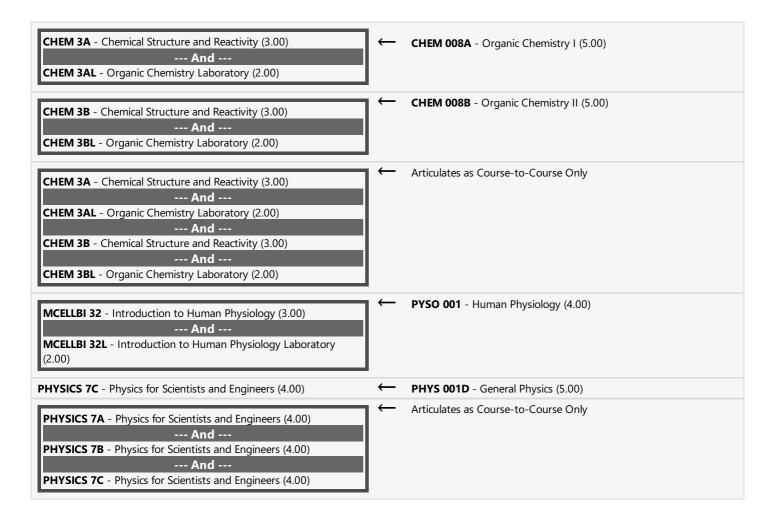
Regular and honors courses may be combined to complete

MATH 055H - Honors Differential Equations (4.00)



### **REQUIRED COURSES FOR ADMISSION**





## **STRONGLY RECOMMENDED COURSES**

**REFER TO TOP OF AGREEMENT**		
<b>COMPSCI 61A</b> - The Structure and Interpretation of Computer Programs (4.00)	<b>←</b>	No Course Articulated
COMPSCI 61B - Data Structures (4.00)	<b>←</b>	<ul> <li>CS 008 - Fundamentals of Computer Science III-Data Structures (4.00)</li> <li>Articulation subject to completion of a university course</li> </ul>
COMPSCI 61C - Machine Structures (4.00)	$\leftarrow$	No Course Articulated
<b>EECS 16A</b> - Designing Information Devices and Systems I (4.00)	$\leftarrow$	No Course Articulated
<b>EECS 16B</b> - Designing Information Devices and Systems II (4.00)	$\leftarrow$	No Course Articulated
COMPSCI 70 - Discrete Mathematics and Probability Theory (4.00)	$\leftarrow$	This course must be taken at the university after transfer

### **END OF AGREEMENT**