COLLEGE OF ENGINEERING JUNIOR TRANSFER ADMISSION REQUIREMENTS:

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

Applicants to the Mechanical 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 2019 course is not considered to be "work in progress" for the fall 2019 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.

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/L
- UCB Math 1A, 1B
- UCB Math 53, 54
- UCB Physics 7A, 7B
- One from UCB: Astronomy 7A, 7B, Biology 1A/1AL, Biology 1B, Chemistry 1B, Chemistry 3A/3AL, Chemistry 3B/3BL, Physics 7C, MCELLBI 32, Statistics 20
- UCB English 1A and 1B

Strongly recommended courses: (if your college offers the courses listed below and they are articulated, taking them will strengthen your application)

- UCB Engin 7
- UCB Mec Eng 40
- UCB Mec Eng C85/Civ Eng C30
- UCB Engin 25
- UCB Engin 26
- UCB Engin 27
- UCB El Eng 40 or El Eng 16A
To: UC Berkeley, From: Diablo Valley College, 18-19

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Mechanical Engineering, Lower Division B.S. (continued)

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/hssreq 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 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.

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 Mechanical Engineering:
http://www.me.berkeley.edu

For more information on admission to UC Berkeley:

For more information on majors at UC Berkeley:
AP TEST CREDIT

For students who have taken Advanced Placement Exams in high school, the College will clear requirements as follows:

Biology AP: a score of 4 or 5 satisfies UCB Biology 1A/AL and 1B.
Chemistry AP: a score of 3 or better satisfies UCB Chemistry 1A/1AL.
English AP (Literature and Composition): a score of 4 or 5 satisfies UCB English R1A.
English AP (Language and Composition): a score of 4 or 5 satisfies UCB English R1A.
Mathematics AP (AB Exam): a score of 3 or better satisfies UCB Math 1A.
Mathematics AP (BC Exam): a score of 3 satisfies UCB Math 1A.
Mathematics AP (BC Exam): a score of 4 or 5 satisfies UCB Math 1A and 1B.
Physics AP (Mechanics C Exam): a score of 5 satisfies UCB Physics 7A.

Required Courses for Admission:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Title</th>
<th>Units</th>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1A &amp; CHEM 120</td>
<td>General Chemistry</td>
<td>3</td>
<td>General College Chemistry I</td>
<td>5</td>
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<td>CHEM 1AL</td>
<td>General Chemistry Laboratory</td>
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<tr>
<td>MATH 1A</td>
<td>Calculus</td>
<td>4</td>
<td>MATH 192</td>
<td>Analytic Geometry and Calculus I</td>
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<tr>
<td>MATH 1B</td>
<td>Calculus</td>
<td>4</td>
<td>MATH 193</td>
<td>Analytic Geometry and Calculus II</td>
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<tr>
<td>MATH 53</td>
<td>Multivariable Calculus</td>
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<td>MATH 292</td>
<td>Analytic Geometry and Calculus III</td>
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<td>MATH 54</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
<td>MATH 194 &amp; MATH 294</td>
<td>Linear Algebra and Differential Equations</td>
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<tr>
<td>PHYSICS 7A</td>
<td>Physics for Scientists and Engineers</td>
<td>4</td>
<td>PHYS 130</td>
<td>Physics for Engineers and Scientists A: Mechanics and Wave Motion</td>
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<tr>
<td>PHYSICS 7B</td>
<td>Physics for Scientists and Engineers</td>
<td>4</td>
<td>PHYS 230</td>
<td>Physics for Engineers and Scientists B: Heat and Electro-Magnetism</td>
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<tr>
<td>ENGLISH R1A</td>
<td>Reading and Composition</td>
<td>4</td>
<td>ENGL 122</td>
<td>Freshman English: Composition and Reading</td>
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<tr>
<td>ENGLISH R1A</td>
<td>Reading and Composition OR ENGL 122A</td>
<td>4</td>
<td>ENGL 122A</td>
<td>Freshman English: Composition and Reading for Multilingual Students</td>
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<tr>
<td>ENGLISH R1B</td>
<td>Reading and Composition</td>
<td>4</td>
<td>ENGL 123</td>
<td>Critical Thinking: Composition and</td>
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<td>Course</td>
<td>Title</td>
<td>Units</td>
<td>Notes</td>
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<td>ASTRON 7A</td>
<td>Introduction to Astrophysics</td>
<td>4</td>
<td>NO COURSE ARTICULATED</td>
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<tr>
<td>ASTRON 7B</td>
<td>Introduction to Astrophysics</td>
<td>4</td>
<td>NO COURSE ARTICULATED</td>
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<td>BIOLOGY 1A</td>
<td>General Biology Lecture (Cells, Genetics, Animal Form &amp; Function)</td>
<td>3</td>
<td>BIOSC 130 Principles of Cellular and Molecular Biology</td>
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<tr>
<td>BIOLOGY 1AL</td>
<td>General Biology Laboratory</td>
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<tr>
<td>BIOLOGY 1B</td>
<td>General Biology (Plant Form &amp; Function, Ecology, Evolution)</td>
<td>4</td>
<td>BIOSC 131 Principles of Organismal Biology, Evolution and Ecology</td>
<td></td>
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<tr>
<td>CHEM 1B</td>
<td>General Chemistry</td>
<td>4</td>
<td>CHEM 121 General College Chemistry II</td>
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<tr>
<td>CHEM 3A</td>
<td>Chemical Structure and Reactivity</td>
<td>3</td>
<td>CHEM 226 Organic Chemistry I</td>
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<tr>
<td>CHEM 3AL</td>
<td>Organic Chemistry Laboratory</td>
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<td></td>
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<tr>
<td>CHEM 3B</td>
<td>Chemical Structure and Reactivity</td>
<td>3</td>
<td>CHEM 227 Organic Chemistry II</td>
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<tr>
<td>CHEM 3BL</td>
<td>Organic Chemistry Laboratory</td>
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<tr>
<td>MCELLBI 32</td>
<td>Introduction to Human Physiology</td>
<td>3</td>
<td>BIOSC 120 Introduction to Human Anatomy and Physiology</td>
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<tr>
<td>MCELLBI 32L</td>
<td>Introduction to Human Physiology Laboratory</td>
<td>2</td>
<td>BIOSC 140 Human Physiology</td>
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</tbody>
</table>
Mechanical Engineering, Lower Division B.S. (continued)

PHYSICS 7C  Physics for Scientists (4) | PHYS 231  Physics for Engineers (4)
and Engineers  | and Scientists C:
| Optics and Modern
| Physics

STAT 20  Introduction to Probability and Statistics (4) | NO COURSE ARTICULATED

NOTE: STAT 20 at Berkeley has a prerequisite of one semester of calculus.

Strongly Recommended Courses (if your college offers courses listed below and they are articulated, taking them will strengthen your application):

If no articulation, students are strongly encouraged to take an introductory course in statics, electronics or circuits, engineering graphics and design, 2 and 3 dimensional drawing, CAD, geometric dimensioning and tolerancing (GD&T) and computer programming.

ENGIN 7  Introduction to Computer Programming for Scientists (4) | ENGIN 136  Computer Programming for Engineers Using MATLAB (4)
and Engineers (MATLAB) | MATLAB

ENGIN 25  Visualization for Design (2) | ENGIN 120  Engineering Drawing (3)

ENGIN 26  Three-Dimensional Modeling for Design (2) | ENGIN 120  Engineering Drawing (3)

ENGIN 27  Introduction to Manufacturing and Tolerancing (2) | ENGT 160 &
| Introduction to
| Industrial and
| Manufacturing
| Engineering
| Geometric Dimensioning and Tolerancing (1)
| ENGTC 162 | Tolerancing

EL ENG 16A  Designing Information Devices and Systems I (4) | NO COURSE ARTICULATED

EL ENG 40  Introduction to Microelectronic Circuits (4) | ENGIN 230  Introduction to Circuits and Devices (4)

MEC ENG 40  Thermodynamics (3) | ENGIN 210  Thermodynamics (3)

MEC ENG C85  Introduction to Solid Mechanics (3) | ENGIN 257  Statics and Strength of Materials (3)
Same as: CIV ENG C30

END OF MAJOR