To: UC Berkeley
From: Diablo Valley College
18-19 General Catalog Semester
18-19 General Catalog Semester
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Materials Science and 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 Materials Science and 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, 1B
- UCB Math 1A, 1B
- UCB Math 53, 54
- UCB Physics 7A, 7B, 7C
- 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 Mat Sci Engin 45 & 45L
- UCB Mec Eng C85/Civ Eng C30
- UCB 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
Materials Science and Engineering, Lower Division B.S. (continued)
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 Materials Science & Engineering:
http://www.mse.berkeley.edu

For more information on admission to UC Berkeley:
http://admissions.berkeley.edu

For more information on majors at UC Berkeley:
Berkeley Academic Guide: http://guide.berkeley.edu
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.

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**Required Courses for Admission:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry</td>
<td>3</td>
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<tr>
<td>CHEM 1AL</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1A</td>
<td>Calculus</td>
<td>4</td>
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<tr>
<td>MATH 1B</td>
<td>Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 53</td>
<td>Multivariable Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 54</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 7A</td>
<td>Physics for Scientists and Engineers</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 7B</td>
<td>Physics for Scientists and Engineers</td>
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<table>
<thead>
<tr>
<th>PHYSICS 7C</th>
<th>Physics for Scientists (4)</th>
<th>PHYS 231</th>
<th>Physics for Engineers (4) and Scientists C: Optics and Modern Physics</th>
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<tbody>
<tr>
<td>ENGLISH R1A</td>
<td>Reading and Composition (4)</td>
<td>ENGL 122</td>
<td>Freshman English: Composition and Reading (3)</td>
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<td>OR</td>
<td>ENGL 122A</td>
<td>Freshman English: Composition and Reading for Multilingual Students (3)</td>
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<tr>
<td>ENGLISH R1B</td>
<td>Reading and Composition (4)</td>
<td>ENGL 123</td>
<td>Critical Thinking: Composition and Literature (3)</td>
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<td>OR</td>
<td>ENGL 126</td>
<td>Critical Thinking: The Shaping of Meaning in Language (3)</td>
<td></td>
</tr>
</tbody>
</table>

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 a course in statics AND a course in Computer Programming.

| ENGIN 7 | Introduction to Computer Programming for Scientists (4) | ENGIN 136 | Computer Programming for Engineers Using MATLAB (4) |
| MAT SCI 45 & Properties of Materials (3) | ENGIN 240 | Properties of Engineering Materials (4) |
| MAT SCI 45L Properties of Materials Laboratory (1) | ENGIN 257 | Statics and Strength of Materials (3) |
| MEC ENG C85 Introduction to Solid Mechanics (3) | ENGIN 257 | Statics and Strength of Materials (3) |
| Same as: CIV ENG C30 |

ENGIN 40 Engineering Thermodynamics (4) NO COURSE ARTICULATED

END OF MAJOR