Electrical Engineering and Computer Sciences and Business Administration

M.E.T. at a Glance: One program, two Bachelor of Science (BS) degrees
The Electrical Engineering and Computer Sciences and Business Administration simultaneous degree is part of the Management, Entrepreneurship, & Technology Program. The M.E.T. Program aims to educate leaders with a seamless understanding of technology innovation, from idea to real-world impact.

M.E.T. students earn two Bachelor of Science degrees in one program that combines the best of the top-ranked College of Engineering and Haas School of Business. The integrated curriculum is completed in four years. Internships, career coaching, and other enrichment activities provide ample opportunity for hands-on experience with innovation and entrepreneurship. Each M.E.T. cohort is small, allowing for close mentoring and a tight-knit community.

Admission to the M.E.T. Program
The M.E.T. Program seeks inquisitive, self-motivated students with a passion for finding and solving big problems. It is highly competitive and is only open to freshmen during the UC application period.

For further information, please see the M.E.T. website (http://met.berkeley.edu).

Accreditation
All UC Berkeley programs are accredited through the Accrediting Commission for Schools, Western Association of Schools and Colleges (ACS WASC). Additionally, the EECS undergraduate degree program in the College of Engineering is accredited by ABET through September 30, 2019. The Undergraduate Business Degree Program is accredited by The Association to Advance Collegiate Schools of Business (AACSB).

In addition to the University, campus, and M.E.T. Program requirements, listed on the College Requirements tab, students must fulfill the below requirements.

General Guidelines
1. A minimum of 38 upper division business units are required, and a minimum of 12 upper division non-business units are required. (Upper division EECS classes will fulfill the 12 upper division non-business units.)
2. A minimum of 40 technical engineering units are required.¹
3. Students must complete the College Requirements (p. 3) and the Major Requirements.
4. Students must complete the degree program in eight semesters. (Summer Session is not required for degree completion in eight semesters.)
5. All Haas business courses must be taken for a letter grade, with the exception of UGBA 194 (http://guide.berkeley.edu/search/?P=UGBA %20194), UGBA 198 (http://guide.berkeley.edu/search/?P=UGBA %20198) and UGBA 199 (http://guide.berkeley.edu/search/?P=UGBA %20199) (only offered Pass/No Pass).
6. All technical courses that can be used to fulfill a requirement must be taken for a letter grade.
7. Students who receive a grade of D+ or lower in a core UGBA course must repeat the course until they achieve a grade of C- or better.
8. Students in this program must adhere to all policies and procedures of the College of Engineering and the Haas School of Business.

For information regarding University and campus requirements, Reading and Composition, breadth, class schedule, minimum academic progress, and unit requirements, please see the College Requirements (p. 3).

¹Technical engineering courses cannot include:
   • Any course taken on a Pass/No Pass basis
   • Courses numbered 24, 39, or 84
   • Any of the following courses: BIO ENG 100, COMPSCI 70, COMPSCI C79, COMPSCI 195, COMPSCI H195, DES INV courses (except DES INV 15, DES INV 22, DES INV 23, DES INV 90E, DES INV 190E), ENGIN 125, ENGIN 157AC, ENGIN 180, IND ENG 95, IND ENG 172, IND ENG 185, IND ENG 186, IND ENG 190 series, IND ENG 191, IND ENG 192, IND ENG 195, MEC ENG 191AC, MEC ENG 190K, and MEC ENG 191K.

Lower Division Requirements

Business Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>UGBA 10</td>
<td>Principles of Business</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1</td>
<td>Introduction to Economics</td>
<td>4</td>
</tr>
<tr>
<td>STAT 20</td>
<td>Introduction to Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>or STAT 21</td>
<td>Introductory Probability and Statistics for Business</td>
<td></td>
</tr>
<tr>
<td>or STAT 131A</td>
<td>Introduction to Probability and Statistics for Life Scientists</td>
<td></td>
</tr>
<tr>
<td>or STAT 134</td>
<td>Concepts of Probability</td>
<td></td>
</tr>
<tr>
<td>or EECS 126</td>
<td>Probability and Random Processes</td>
<td></td>
</tr>
<tr>
<td>or COMPSCI C8</td>
<td>Foundations of Data Science</td>
<td></td>
</tr>
<tr>
<td>&amp; STAT 88</td>
<td>and Probability and Mathematical Statistics in Data Science</td>
<td></td>
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</table>

Natural Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PHYSICS 7A &amp; PHYSICS 7B</td>
<td>Physics for Scientists and Engineers and Physics for Scientists and Engineers</td>
<td>8</td>
</tr>
<tr>
<td>or PHYSICS 5A &amp; PHYSICS 5B &amp; PHYSICS 5BL</td>
<td>Introductory Mechanics and Relativity and Introductory Electromagnetism, Waves, and Optics and Introduction to Experimental Physics I</td>
<td></td>
</tr>
</tbody>
</table>

Select one course from the following: 3-5

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTRON 7A</td>
<td>Introduction to Astrophysics</td>
<td>4</td>
</tr>
<tr>
<td>ASTRON 7B</td>
<td>Introduction to Astrophysics</td>
<td>4</td>
</tr>
<tr>
<td>BIOLOGY 1A &amp; 1AL</td>
<td>General Biology Lecture and General Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOLOGY 1B</td>
<td>General Biology Lecture and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1A &amp; 1AL</td>
<td>General Chemistry and General Chemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3A &amp; 3AL</td>
<td>Chemical Structure and Reactivity and Organic Chemistry Laboratory</td>
<td></td>
</tr>
</tbody>
</table>
CHEM 3B & 3BL | Chemical Structure and Reactivity and Organic Chemistry Laboratory
CHEM 4A | General Chemistry and Quantitative Analysis [4] ¹
CHEM 4B | General Chemistry and Quantitative Analysis [4] ¹
MCCELLBI 32 & 32L | Introduction to Human Physiology and Introduction to Human Physiology Laboratory
PHYSICS 5C & 5CL | Introductory Thermodynamics and Quantum Mechanics and Introduction to Experimental Physics II
PHYSICS 7C | Physics for Scientists and Engineers [4]

Any upper division letter graded course of 3 units or more in astronomy, chemistry, earth and planetary science, integrative biology, molecular & cell biology, physics, or plant & microbial biology

**Mathematics**

MATH 1A | Calculus 4
MATH 1B | Calculus 4
MATH 53 | Multivariable Calculus 4
COMPSCI 70 | Discrete Mathematics and Probability Theory 4

**Technical Electives (Lower or Upper Division)²**

**EECS Lower Division Core**

EL EN 16A | Course Not Available 4
EL EN 16B | Course Not Available 4
COMPSCI 61A | The Structure and Interpretation of Computer Programs 4

**Upper Division Business Administration Requirements**

UGBA 100 | Business Communication 2
UGBA 101A | Microeconomic Analysis for Business Decisions 3
UGBA 101B | Macroeconomic Analysis for Business Decisions 3
UGBA 102A | Introduction to Financial Accounting 3
UGBA 102B | Managerial Accounting 3
UGBA 103 | Introduction to Finance 4
UGBA 104 | Introduction to Business Analytics 3
UGBA 105 | Leading People 3
UGBA 106 | Marketing 3
UGBA 107 | The Social, Political, and Ethical Environment of Business 3

**M.E.T. Special Topics**

Two courses are required. 1

**Upper Division Business Administration Elective Courses**

Select a minimum of 4-6 units of upper division UGBA elective courses in order to complete a minimum of 38 units of upper division Business Administration courses.

UGBA 113 | Managerial Economics [3]
UGBA 115 | Competitive Strategy [3]
UGBA 117 | Special Topics in Economic Analysis and Policy [1-4]
UGBA 118 | International Trade [3]
UGBA 119 | Leading Strategy Implementation [3]
UGBA 120B | Advanced Financial Accounting [4]
M.E.T. Special Topics courses will count as upper division business units.

University of California Requirements

Entry Level Writing

All students who enter the University of California as freshmen must demonstrate their command of the English language by fulfilling the Entry Level Writing Requirement. Fulfillment of this requirement is also a prerequisite to enrollment in all reading and composition courses at UC Berkeley.

American History and American Institutions

The American History and Institutions requirements are based on the principle that a US resident who graduates from an American university should have an understanding of the history and governmental institutions of the United States.

Campus Requirement

American Cultures

American Cultures (AC) is the one requirement that all undergraduate students at UC Berkeley need to take and pass in order to graduate. The requirement offers an exciting intellectual environment centered on the study of race, ethnicity, and culture of the United States. AC courses offer students opportunities to be part of research-led, highly accomplished teaching environments, grappling with the complexity of American culture.

M.E.T. Program Requirements

Reading and Composition
Two Reading and Composition (R&C) courses must be taken for a letter grade (C- or better required), and must be completed by no later than the end of the sophomore year (4th semester of enrollment). The first half of R&C, the “A” course, must be completed by the end of the freshman year; the second half of R&C, the “B” course, by no later than the end of the sophomore year or a student’s registration will be blocked. View a detailed list of courses (http://guide.berkeley.edu/undergraduate/colleges-schools/engineering/reading-composition-requirement) that fulfill Reading and Composition requirements.

Breadth Requirement

The undergraduate breadth requirement provides Berkeley students with a rich and varied educational experience outside of their major program. As the foundation of a liberal arts education, breadth courses give students a view into the intellectual life of the University while introducing them to a multitude of perspectives and approaches to research and scholarship. Engaging students in new disciplines and with peers from other majors, the breadth experience strengthens interdisciplinary connections and context that prepare Berkeley graduates to understand and solve the complex issues of their day.

Students in the M.E.T. Program must successfully complete six breadth courses, one in each of the following categories:

- Arts and Literature
- Historical Studies
- International Studies
- Philosophy and Values (will be satisfied with UGBA 107)
- Physical Science (will be satisfied with Physics 7B)
- Social and Behavioral Sciences (will be satisfied with Econ 1)

- With the exception of UGBA 107, UGBA courses cannot be used to fulfill breadth requirements.
- With the exception of Econ 1, microeconomics and macroeconomics at any level (Econ 2, Econ 3, Econ 100A/B, Econ 101A/B, IAS 106/107) cannot be used to fulfill breadth requirements.
- Courses offered by any Engineering department, with the exception of BIO ENG 100, COMPSCI C79, ENGIN 125, 157AC, MEC ENG 191K and 191AC, cannot be used to fulfill breadth requirements.
- No more than two courses from any one department may be used to satisfy the breadth requirement (L&S Discovery courses (http://lsdiscovery.berkeley.edu) are exempt).
- Advanced Placement or International Baccalaureate exams cannot be used to fulfill the breadth requirement. Some A-Level exams are accepted, but a maximum of two A-Level exams may be used to fulfill breadth requirements.
- Two of the breadth courses must be upper-division (courses numbered 100-196).
- Courses numbered 97, 98, 99, or above 196 may not be used to complete any breadth requirement.
- Breadth courses must be a minimum of 3 semester units.
- Reading & Composition courses cannot be used to fulfill breadth requirements.

Class Schedule Requirements

- Minimum units per semester: 13
- Maximum units per semester: 20.5
- Students in the M.E.T. Program must enroll each semester in no fewer than two technical courses (of a minimum of 3 units each) required of the engineering major program of study in which the student is officially declared.

Minimum Academic (Grade) Requirements

- A minimum overall and semester grade point average of 2.000 (C average) is required. Students will be subject to dismissal from the University if during any fall or spring semester their overall U.C. GPA falls below a 2.000, or their semester GPA is less than 2.000.
- Students must achieve a minimum GPA of 2.000 (C average) in upper division technical courses each semester. Students will be subject to dismissal from the University if their upper division technical GPA falls below 2.000.
- A minimum overall GPA of 2.000, and a minimum 2.000 GPA in upper division technical course work required of the major are required to graduate.

Unit Requirements

- A minimum of 120 units are required to graduate.
- A maximum of 16 units of Special Studies coursework (courses numbered 97, 98, 99, 197, 198, or 199) will count towards the 120 units; a maximum of four are allowed in a given semester.
- A maximum of four units of Physical Education from any school attended will count towards the 120 units.
- No more than 1/3 of a student’s total UC Berkeley units may be taken Pass/No Pass, including physical education courses, Education Abroad Program, or courses taken on another UC campus.

University of California Requirements

Entry Level Writing (http://guide.berkeley.edu/undergraduate/colleges-schools/natural-resources/entry-level-writing-requirement)

All students who will enter the University of California as freshmen must demonstrate their command of the English language by fulfilling the Entry Level Writing Requirement. Satisfaction of this requirement is also a prerequisite to enrollment in all reading and composition courses at UC Berkeley.

American History and American Institutions (http://guide.berkeley.edu/undergraduate/colleges-schools/natural-resources/american-history-institutions-requirement)

The American History and Institutions requirements are based on the principle that a U.S. resident graduated from an American university should have an understanding of the history and governmental institutions of the United States.

Campus Requirement

American Cultures (http://guide.berkeley.edu/undergraduate/colleges-schools/natural-resources/american-cultures-requirement)

American Cultures (AC) is the one requirement that all undergraduate students at UC Berkeley need to take and pass in order to graduate. The requirement offers an exciting intellectual environment centered on the study of race, ethnicity, and culture in the United States. AC courses offer students opportunities to be part of research-led, highly
accomplished teaching environments, grappling with the complexity of American Culture.

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall Units</th>
<th>Spring Units</th>
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<tbody>
<tr>
<td>COMPSCI 61A</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>ECON 1 (Breadth: Social and Behavioral Sciences)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1A</td>
<td>4</td>
<td>4</td>
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<tr>
<td>M.E.T. Special Topics</td>
<td>1-2</td>
<td>3</td>
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<tr>
<td>Reading and Composition Course from List A</td>
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<td>4</td>
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<tr>
<td>Natural Science Elective</td>
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**First Year**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EL ENG 16B</td>
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<td>4</td>
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<tr>
<td>MATH 53</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 7A or 5A</td>
<td>3-4</td>
<td>4-5</td>
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<tr>
<td>(Breadth:</td>
<td></td>
<td></td>
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<tr>
<td>Physical Science)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breadth: Historical Studies</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Reading &amp; Composition Course from List B</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Technical Electives</td>
<td>4</td>
<td>4</td>
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<tr>
<td>Upper Division EECS</td>
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<td>Upper Division EECS</td>
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<tr>
<td>UGBA 100</td>
<td>2</td>
<td>3</td>
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<tr>
<td>UGBA 101A</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>UGBA 105</td>
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**Second Year**

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<tr>
<th>Course</th>
<th>Fall Units</th>
<th>Spring Units</th>
</tr>
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<tbody>
<tr>
<td>Physical Science (Breadth: Arts &amp; Literature)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>EECS 126, or C8a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reading &amp; Composition Course from List B</td>
<td>4</td>
<td>4</td>
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<tr>
<td>Technical Electives</td>
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<td>Upper Division EECS</td>
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<tr>
<td>UGBA 100</td>
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<td>UGBA 101A</td>
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<td>UGBA 105</td>
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**Third Year**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>COMPSCI 195 (Engineering Ethics)</td>
<td>1</td>
<td>3</td>
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<tr>
<td>Upper Division EECS</td>
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<td>3</td>
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<tr>
<td>Upper Division EECS</td>
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<td>3</td>
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<tr>
<td>M.E.T. Special Topics</td>
<td>1-2</td>
<td>2-3</td>
</tr>
<tr>
<td>Reading and Composition Course from List A</td>
<td>4</td>
<td>3</td>
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<tr>
<td>UGBA 104</td>
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**Fourth Year**

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<th>Fall Units</th>
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<tbody>
<tr>
<td>COMPSCI 195 (Engineering Ethics)</td>
<td>1</td>
<td>3</td>
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<tr>
<td>Upper Division EECS</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division EECS</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>M.E.T. Special Topics</td>
<td>1-2</td>
<td>2-3</td>
</tr>
<tr>
<td>UGBA 103</td>
<td>4</td>
<td>3</td>
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<tr>
<td>UGBA 104</td>
<td>3</td>
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</table>

**Total Units: 137-143**

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1. Math 1A may be fulfilled with a score of 3, 4 or 5 on the AP Calculus AB or BC exam, a score of 5, 6 or 7 on the IB Higher Level Math exam, or a grade of A, B or C on the A-Level Math H1, H2, H3, Pure Math or Further Math exam.

2. Students must complete one course from the following list: ASTRON 7A, ASTRON 7B, BIOLOGY 1A and BIOLOGY 1AL (must take both), BIOLOGY 1B, CHEM 1A and CHEM 1AL (must take both), CHEM 1B, CHEM 3A and CHEM 3AL (must take both), CHEM 3B and CHEM 3BL (must take both), CHEM 4A, CHEM 4B, MCELLBI 32 and MCELLBI 32L (must take both), PHYSICS 7C, or an upper-division course of 3 units or more in astronomy, biology, chemistry, earth and planetary science (other than EPS 170AC), integrative biology, molecular cell biology, physics, or plant & microbial biology. This requirement is listed in the freshman year curriculum, but many of the options would not be appropriate for a first year student. Complete this requirement in the semester when it is most appropriate to do so (i.e., take PHYSICS 7C after completing PHYSICS 7B). Your M.E.T. adviser can help guide your selection on this requirement.

3. The Natural Science Elective may be fulfilled with a score of 4 or 5 on the AP Biology exam, a score of 3, 4 or 5 on the AP Chemistry exam, a score of 5, 6 or 7 on the IB Higher Level Biology exam or the IB Higher Level Chemistry exam, or a grade of A, B or C on the A-Level Biology exam or the A-Level Chemistry exam.

4. Students in the M.E.T. Program may be excused from this requirement. The Biological Science breadth requirement is waived for students in the M.E.T. Program. In order to satisfy the College of Engineering Humanities and Social Sciences requirement, two of the breadth courses must be upper division. Some American Cultures courses will also fulfill the Arts & Literature or Historical Studies breadth requirement; use Requirements filters to search the Class Schedule (http://classes.berkeley.edu) for courses that apply. See College Requirements for further restrictions on breadth courses.

5. ECON 1 may be fulfilled with scores of 4 or 5 on both the AP Microeconomics exam and AP Macroeconomics exam. However, the Social and Behavioral Sciences Breadth requirement cannot be fulfilled with AP exam scores.

6. Math 1B may be fulfilled with a score of 4 or 5 on the AP Calculus BC exam, a score of 5, 6 or 7 on the IB Higher Level Math exam, or a grade of A, B or C on the A-Level Math H2, H3, Pure Math or Further Math exam.

7. Reading & Composition part A may be fulfilled with a score of 4 or 5 on the AP English Language and Composition exam or the AP English Literature and Composition exam, or a score of 5, 6 or 7 on the IB Higher Level English A: Literature (formerly English A1) or Higher Level English A: Language and Literature exam.

8. Physics 7A may be fulfilled with a score of 5 on the AP Physics C Mechanics exam. Students may choose to take the Physics 7 series or the Physics 5 series. Students who fulfill Physics 7A with an AP exam score, transfer work, or at Berkeley may complete the physics requirement by taking either Physics 7B, or Physics 5B and 5BL. Students who take Physics 5A must take Physics 5B and 5BL to complete the physics requirement. Completion of Physics 5A and Physics 7B will not fulfill the physics requirement.
Students must complete a minimum of 20 units of upper division EECS courses. One course must provide a major design experience, and be selected from the following list: EECS 106A, EECS 106B, EECS 149, EL ENG C128, EL ENG 130, EL ENG 140, EL ENG 143, EL ENG C149, EL ENG 192, COMPSCI C149, COMPSCI 160, COMPSCI 162, COMPSCI 169, COMPSCI 182, COMPSCI 184, COMPSCI 186, EECS 151 and EECS 151LA (must take both), EECS 151 and EECS 151LB (must take both). In addition to upper division EECS courses, the following courses can count toward the 20 units of upper division EECS: Info 159, CS 270, CS C280, EE 229A, CS 294-84 (Interactive Device Design), and CS 294-129 (Designing, Visualizing and Understanding Deep Neural Networks). Note that no more than two graduate level courses (courses numbered 200-294) can be used to fulfill requirements for your B.S. degree. Courses taken P/NP cannot count toward the 20 units of upper division EECS.

Students must complete a minimum of 40 units of Engineering coursework. Included in these units are CS 61A, 61B, 61C, EE 16A, 16B, and the required 20 units of upper division EECS, Technical Electives and the 40 units of Engineering courses cannot include: any course taken on a Pass/No Pass basis; courses numbered 24, 39, or 84; BIO ENG 100; COMP SCI 70, C79, 195, H195; DES INV courses (except DES INV 15, 22, 90E, 190E); ENGIN 125, 157AC, 180; IND ENG 95, 172, 185, 186, 190 series, 191, 192, 195; MEC ENG 191AC, 190K, and 191K.

Students must complete a minimum of 38 units of upper division business coursework. See UGBA Elective course list under "Major Requirements" tab.

Students must complete 4 units of Technical Elective(s) chosen from any lower or upper division course in the following departments: Astronomy, Chemistry, Data Science, Earth and Planetary Science, Integrative Biology, Mathematics, Molecular Cell Biology, Physics, Plant & Microbial Biology, Statistics, or any Engineering department (including EECS). The 4 units of Technical Elective(s) must be in addition to the Natural Science Elective and the 20 units of required EECS Upper Division Technical Electives. If the 4 units of Technical Elective(s) are from an Engineering department, the units can count toward the required 40 units of Engineering coursework. See footnote 10 for the list of excluded courses.

Students can also take STAT C8 or COMPSCI C8 plus STAT 88 to fulfill the statistics prerequisite. Both courses must be taken to satisfy the requirement, although they do not need to be taken in the same semester. Note: STAT courses will also fulfill the Technical Elective requirement.

**Learning Goals**

**ECE**

1. An ability to apply knowledge of mathematics, science, and engineering.
2. An ability to configure, apply test conditions, and evaluate outcomes of experimental systems.
3. An ability to design systems, components, or processes that conform to given specifications and cost constraints.
4. An ability to work cooperatively, respectfully, creatively, and responsibly as a member of a team.
5. An ability to identify, formulate, and solve engineering problems.
6. An understanding of the norms of expected behavior in engineering practice and their underlying ethical foundations.
7. An ability to communicate effectively by oral, written, and graphical means.
8. An awareness of global and societal concerns and their importance in developing engineering solutions.
9. An ability to independently acquire and apply required information, and an appreciation of the associated process of life-long learning.
10. A knowledge of contemporary issues.
11. An in-depth ability to use a combination of software, instrumentation, and experimental techniques practiced in circuits, physical electronics, communication, networks and systems, hardware, programming, and computer science theory.

**CSE**

1. An ability to apply knowledge of computing and mathematics appropriate to the program’s student outcomes and to the discipline.
2. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.
3. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
4. An ability to function effectively on teams to accomplish a common goal.
5. An understanding of professional, ethical, legal, security and social issues and responsibilities.
6. An ability to communicate effectively with a range of audiences.
7. An ability to analyze the local and global impact of computing on individuals, organizations, and society.
8. Recognition of the need for and an ability to engage in continuing professional development.
9. An ability to use current techniques, skills, and tools necessary for computing practice.

**Business Administration**

**Mission**

Guided by the missions of the undergraduate program, and the University’s mission of teaching, research, and service, the mission of the Haas School of Business is to develop leaders who redefine how we do business.

The Haas School of Business Undergraduate Program has developed student learning goals for the Business major that provide faculty and students with a shared understanding of the purpose of the major as well as what graduating seniors are expected to know or to be able to do at the end of their course of study as it relates to the school’s mission.
The learning goals are assessed to determine whether students are achieving the outcomes. The assessment results are used to inform curricular design and other program offerings. All steps require input and participation from the business school community, particularly the faculty. The resulting learning goals, which have their origin in the core curriculum, were shaped over several months by faculty and administration and are listed below.

**Learning Goals**

1. Students will be skilled in critical thinking and decision making, as supported by the appropriate use of analytical and quantitative techniques.
2. Students will apply functional area concepts and theories appropriately.
3. Students will be effective communicators who can prepare and deliver oral and written presentations using appropriate technologies.
4. Students will be sensitive to the ethical requirements of business activities.
5. Students will tackle strategic and organizational challenges with innovative solutions.

For a visual representation of the relationship between the core curriculum and the expected outcomes, please see the Haas School of Business website (http://www.haas.berkeley.edu/Undergrad/learninggoals.html).