

# Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, San Diego  
2022-2023 General Catalog, Quarter

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

## ECE: Electrical Engineering and Society B.A.

### GENERAL INFORMATION

DATED MATERIAL, SUBJECT TO CHANGE. PLEASE CONSULT CURRENT UCSD GENERAL CATALOG FOR ANY ADDITIONAL INFORMATION.

Effective Fall 2017, major preparation will be required for this major. For details, visit: <http://admissions.ucsd.edu/MajorPrep>

**General Advice:** Transfer students must have completed the following courses in order to be considered for admission to this major.

- Calculus I-for Science and Engineering (Math. 20A)
- Calculus II-for Science and Engineering (Math. 20B)
- Calculus and Analytic Geometry (Math. 20C)
- Differential Equations (Math. 20D)
- Linear Algebra (Math. 18)
- Complete calculus-based physics series (Physics 2A-B-C)  
Note: An equivalent to UCSD's PHYS 2D is strongly recommended although it is not considered for screening purposes.
- Chemistry I-for Science and Engineering (Chemistry 6A)
- Introductory computer programming language (Java, C, or C++)

**Course Note:** ECE 15 and 35 must be taken at UCSD. Students who have taken a C programming or circuits course at a non-UC college must pass the ECE 15 or 35 Waiver Exam to receive transfer credit for UCSD ECE 15 or 35. These are NOT placement tests. For more information, go to <http://www.ece.ucsd.edu/undergraduate/ece-15-35-waiver-exams>

**NOTE: Articulation of engineering coursework will be subject to thorough review and evaluation.**

#### Special Advising Note:

All transfer students should understand that the lower-division curriculum is demanding. Transfer students will be required to complete all lower-division requirements or their equivalent courses. The ECE department has a recommended schedule for transfer students (please consult the ECE website, <http://www.ece.ucsd.edu>, for sample recommended course schedules and for the ECE course requirement guide).

#### **Note regarding Elective Courses in Social Sciences and Humanities Studies (8 units):**

These can be prerequisite courses for the upper division depth sequence in social sciences/humanities. For instance, for history studies, this can be two history lower division courses (HILD 2, 7, 10-12). Historically oriented HUM, MMW and CAT courses would count as well. At least one lower division course should have a writing component. For Economics studies, this can be two lower division courses (ECON 1, and ECON 4; for the Finance track); or one lower division course (ECON 1) plus one upper division course; for the Data Analysis track.

For political science, the following courses may be utilized: POLI 10, POLI 11, POLI 12, POLI 13, POLI 30. For sociology studies, students will choose two lower-division courses from SOCI 1, 2, and 30, of which 30 is highly recommended.

UC San Diego Advanced Placement (AP) and International Baccalaureate (IB) credit policies are detailed in the links below:

Advanced Placement (AP) <https://www.ucsd.edu/catalog/pdf/APC-chart.pdf>

International Baccalaureate (IB) [https://catalog.ucsd.edu/\\_files/international-baccalaureate-credits-chart.pdf](https://catalog.ucsd.edu/_files/international-baccalaureate-credits-chart.pdf)

### LOWER DIVISION MAJOR REQUIREMENTS

<b>ECE 15</b> - Engineering Computation (4.00)	←	This course must be taken at the university after transfer
<b>ECE 25</b> - Introduction to Digital Design (4.00)	←	This course must be taken at the university after transfer
<b>ECE 30</b> - Introduction to Computer Engineering (4.00)	←	No Course Articulated
<b>ECE 35</b> - Introduction to Analog Design (4.00)	←	This course must be taken at the university after transfer
<b>ECE 45</b> - Circuits and Systems (4.00)	←	This course must be taken at the university after transfer
<b>ECE 65</b> - Components and Circuits Lab (4.00)	←	This course must be taken at the university after transfer

<b>CHEM 6A</b> - General Chemistry I (4.00)	←	<b>CHEM 1A</b> - General Chemistry (5.00) --- Or --- <b>CHEM 1AH</b> - General Chemistry - HONORS (5.00)
---	---	--

<b>MATH 18</b> - Linear Algebra (4.00)	←	<b>MATH 2B</b> - Linear Algebra (5.00) --- Or --- <b>MATH 2BH</b> - Linear Algebra - HONORS (5.00)
<b>MATH 20A</b> - Calculus for Science and Engineering (4.00)	←	<b>MATH 1A</b> - Calculus (5.00) --- Or --- <b>MATH 1AH</b> - Calculus - HONORS (5.00)
<b>MATH 20B</b> - Calculus for Science and Engineering (4.00)	←	<b>MATH 1B</b> - Calculus (5.00) --- Or --- <b>MATH 1BH</b> - Calculus - HONORS (5.00)
<b>MATH 20C</b> - Calculus and Analytic Geometry for Science and Engineering (4.00)	←	<div> <b>MATH 1C</b> - Calculus (5.00)            --- And ---  <b>MATH 1D</b> - Calculus (5.00)         </div> <div>           --- Or ---         </div> <div> <b>MATH 1CH</b> - Calculus - HONORS (5.00)            --- And ---  <b>MATH 1DH</b> - Calculus - HONORS (5.00)         </div>
<b>MATH 20D</b> - Introduction to Differential Equations (4.00)	←	<b>MATH 2A</b> - Differential Equations (5.00) --- Or --- <b>MATH 2AH</b> - Differential Equations - HONORS (5.00)
<b>MATH 20E</b> - Vector Calculus (4.00) <ul style="list-style-type: none"> <li>• <i>Articulation is subject to placement by proficiency exam</i></li> <li>• <i>Petition department after transfer</i></li> </ul>	←	No Course Articulated

<b>PHYS 2A</b> - Physics - Mechanics (4.00)	←	<b>PHYS 4A</b> - Physics for Scientists and Engineers: Mechanics (6.00)
<b>PHYS 2B</b> - Physics - Electricity and Magnetism (4.00)	←	<b>PHYS 4B</b> - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)
<b>PHYS 2C</b> - Physics - Fluids, Waves, Thermodynamics, and Optics (4.00)	←	<b>PHYS 4C</b> - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)
<b>PHYS 2D</b> - Physics - Relativity and Quantum Physics (4.00)	←	<b>PHYS 4D</b> - Physics for Scientists and Engineers: Modern Physics (6.00)

## HISTORICAL STUDIES

<b>HILD 7A</b> - Race and Ethnicity in the United States (4.00)	←	<b>AFAM 12A</b> - African American History to 1865 (4.00) Same-As: HIST 18A --- Or --- <b>AFAM 12B</b> - African American History Since 1865 (4.00) Same-As: HIST 18B
<b>HILD 7B</b> - Race and Ethnicity in the United States (4.00)	←	<b>ASAM 1</b> - Asian American Experience Past and Present (4.00) --- Or --- <b>ASAM 10</b> - Contemporary Asian American Communities (4.00)
<b>HILD 7C</b> - Race and Ethnicity in the United States (4.00)	←	No Course Articulated

<b>HILD 10</b> - East Asia: The Great Tradition (4.00)	← <b>ASAM 42A</b> - History of Asian Civilization: China and Japan (to the 19th Century) (4.00) Same-As: HIST 19A
<b>HILD 11</b> - East Asia and the West (4.00)	← <b>ASAM 42A</b> - History of Asian Civilization: China and Japan (to the 19th Century) (4.00) Same-As: HIST 19A
<b>HILD 12</b> - Twentieth-Century East Asia (4.00)	← No Course Articulated

### ECONOMICS STUDIES

<b>ECON 1</b> - Principles of Microeconomics (4.00)	← <b>ECON 2</b> - Principles of Microeconomics (4.00) --- Or --- <b>ECON 2H</b> - Principles of Microeconomics - HONORS (4.00)
<b>ECON 4</b> - Financial Accounting (4.00) Same-As: MGT 4	← <b>ACCT 1A</b> - Financial Accounting I (5.00) --- Or --- <b>ACCT 1AH</b> - Financial Accounting I - HONORS (5.00)

### POLITICAL SCIENCE STUDIES

<b>POLI 10</b> - Introduction to Political Science: American Politics (4.00)	← <b>POLI 1</b> - American Government and Politics (5.00) --- Or --- <b>POLI 1H</b> - American Government and Politics - HONORS (5.00)
<b>POLI 11</b> - Introduction to Political Science: Comparative Politics (4.00)	← <b>POLI 2</b> - Comparative Politics (4.00)
<b>POLI 12</b> - Introduction to Political Science: International Relations (4.00)	← <b>POLI 3</b> - International Relations (4.00)
<b>POLI 13</b> - Power and Justice (4.00)	← <b>POLI 5</b> - Introduction to Political Thought and Theory (4.00)
<b>POLI 30</b> - Political Inquiry (4.00)	← This course must be taken at the university after transfer

### SOCIOLOGY STUDIES

<b>SOCI 1</b> - Introduction to Sociology (4.00)	← <b>SOC 1</b> - Introduction to Sociology (4.00)
<b>SOCI 2</b> - The Study of Society (4.00)	← <b>SOC 20</b> - Social Problems (4.00)
<b>SOCI 30</b> - Science, Technology, and Society (4.00)	← No Course Articulated

### END OF AGREEMENT