College Admission Requirements for Transfer Students

This major is offered by the College of Letters and Science (L&S).

By the end of the spring term preceding fall enrollment at Berkeley, you must complete:

1) The L&S Requirements in Reading & Composition, Quantitative Reasoning, and Foreign Language; OR
2) IGETC

Major Requirements:
Complete as many lower division major requirements as possible. This major may require you to complete minimum coursework for admission. See details on preparation for this major below.

Primary selection criteria for admission, in general:
- completion of L&S Requirements (or IGETC), plus
- strength of academic preparation, and
- grade point average.

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

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PROGRAM

DATA SCIENCE is a new field of study that combines computational and inferential reasoning to draw conclusions based on data about some aspect of the real world. Data scientists come from all walks of life, all areas of study, and all backgrounds. They share an appreciation for the practical use of mathematical and scientific thinking and the power of computing to understand and solve problems for business, research, and societal impact.

The Data Science Major will equip students to draw sound conclusions from data in context, using knowledge of statistical inference, computational processes, data management strategies, domain knowledge, and theory. Students will learn to carry out analyses of data through the full cycle of the investigative process in scientific and practical contexts. Students will gain understanding of the human and ethical implications of data analysis and integrate that knowledge in designing and carrying out their work.
Lower Division Prerequisites

**STAT/COMPSCI/INFO C8**  
Foundations of Data Science

**MATH 1A & MATH 1B**  
Calculus

**MATH 54**  
Linear Algebra and Differential Equations

*or*

**EL ENG 16A + EL ENG 16B**  
Designing Information Devices and Systems I and II

**CS 61A**  
The Structure and Interpretation of Computer Programs

*or*

**ENGIN 7**  
Introduction to Computer Programming for Scientists and Engineers

**CS 61B**  
Data Structures

For more information on this major:  
ds-advising@berkeley.edu  
https://data.berkeley.edu/degrees/data-science-ba
To UC Berkeley, From Diablo Valley College, 18-19  

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<tr>
<td>ENGIN 7  Introduction to Computer (4)</td>
<td>ENGIN 136  Computer Programming (4)</td>
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<tr>
<td>Programming for Scientists and Engineers (MATLAB)</td>
<td>for Engineers Using MATLAB</td>
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<tr>
<td>COMPSCI 61B  Data Structures (4)</td>
<td>COMSC 210  Program Design and Data Structures</td>
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END OF MAJOR