

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Berkeley
2022-2023 General Catalog, Semester

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

Physics, Lower Division B.A.

COLLEGE OF LETTERS AND SCIENCE

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. 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>

REQUIREMENTS

Fall 2023 Admission For this Major:

Transfer students who select this major on their College of Letters and Science (L&S) application, and are offered admission to L&S will be directly admitted into this major.

If you are interested in this major, it is very important to select this major on your application, and complete all lower-division major requirements prior to transfer. Students who do not complete all lower-division major requirements prior to transfer may require an exception from a L&S Dean for an additional semester(s) to complete all remaining major requirements. Visit the [transfer student page](#) on the physics department website for more information on the physics major requirements.

See details on preparation for this major below.

Physics courses taken at four year schools will be evaluated by this department to determine whether they are comparable to Berkeley courses, or if they will satisfy major requirements.

The Physics Department at UC Berkeley does not accept AP or IB Physics exams for satisfying requirements.

MATHEMATICS Must complete math courses prior to transferring.

PHYSICS This institution may cover the topics in Berkeley's PHYSICS 7ABC series in a different order. Students who transfer before completing courses equivalent to the entire 7ABC series may need to enroll in Berkeley's PHYSICS 49 to complete missing topics such as wave motion (7A) or heat (7B).

Physics major transfer students are expected to have completed all physics and mathematics program pre-requisites. Physics 89 (Introduction to Mathematical Physics) at UC Berkeley is strongly recommended during the summer prior to first semester at UCB or post-admission during the first semester at UCB. Students who have not completed Math 54 prior to admission as transfer students will be required to complete Physics 89 instead of Math 54 at UC Berkeley.

Note: Those not familiar with the Python programming language are urged to take Physics 77, Data Science 8 or the equivalent.

For more information:

physics-student-services@lists.berkeley.edu

<http://physics.berkeley.edu>

MATHEMATICS

Required for admission

MATH 1A - Calculus (4.00)



MATH 1A - Calculus (5.00)

--- And ---

MATH 1B - Calculus (5.00)

- *Regular and honors courses may be combined to complete this series*

--- Or ---

MATH 1AH - Calculus - HONORS (5.00)

--- And ---

MATH 1BH - Calculus - HONORS (5.00)

- *Regular and honors courses may be combined to complete this series*

MATH 1B - Calculus (4.00)



MATH 1B - Calculus (5.00)

--- And ---

MATH 1C - Calculus (5.00)

- *Regular and honors courses may be combined to complete this series*

--- Or ---

MATH 1BH - Calculus - HONORS (5.00)

--- And ---

MATH 1CH - Calculus - HONORS (5.00)

- *Regular and honors courses may be combined to complete this series*

MATH 53 - Multivariable Calculus (4.00)



MATH 1C - Calculus (5.00)

--- And ---

MATH 1D - Calculus (5.00)

- *Regular and honors courses may be combined to complete this series*

--- Or ---

MATH 1CH - Calculus - HONORS (5.00)

--- And ---

MATH 1DH - Calculus - HONORS (5.00)

- *Regular and honors courses may be combined to complete this series*

MATH 54 - Linear Algebra and Differential Equations (4.00)



MATH 2A - Differential Equations (5.00)

--- And ---

MATH 2B - Linear Algebra (5.00)

- *Regular and honors courses may be combined to complete this series*

--- Or ---

MATH 2AH - Differential Equations - HONORS (5.00)

--- And ---

MATH 2BH - Linear Algebra - HONORS (5.00)

- *Regular and honors courses may be combined to complete this series*

PHYSICS

PHYSICS 7A - Physics for Scientists and Engineers (4.00)



PHYS 4A - Physics for Scientists and Engineers: Mechanics (6.00)

PHYSICS 7B - Physics for Scientists and Engineers (4.00)



PHYS 4B - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)

--- And ---

PHYS 4C - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)

PHYSICS 7C - Physics for Scientists and Engineers (4.00)



PHYS 4C - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)

--- And ---

PHYS 4D - Physics for Scientists and Engineers: Modern Physics (6.00)

PHYSICS 7A - Physics for Scientists and Engineers (4.00)

--- And ---

PHYSICS 7B - Physics for Scientists and Engineers (4.00)



Articulates as Course-to-Course Only

PHYSICS 7A - Physics for Scientists and Engineers (4.00)

--- And ---

PHYSICS 7B - Physics for Scientists and Engineers (4.00)

--- And ---

PHYSICS 7C - Physics for Scientists and Engineers (4.00)



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END OF AGREEMENT