Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Irvine 2022-2023 General Catalog, Quarter	From: De Anza College 2022-2023 General Catalog, Quarter

Physics, B.S.

GENERAL INFORMATION

Preference will be given to junior-level applicants with the highest grades overall who have satisfactorily completed the following **required** courses.

Required for admission:
Students must have a cumulative UC transferable GPA of 3.0 (3.4 for TAG)

- One year of calculus-based physics with laboratory for physics and engineering majors with a minimum GPA of 3.0
- One year of approved calculus with a minimum GPA of 3.0

Concentrations are offered in:

- Computational Physics,
- Philosophy of Physics, and
- Physics Education with optional Secondary Teaching Certification

A specialization in Astrophysics is also offered.

Additional information is available at http://ps.uci.edu/undergraduates.

Important: Completion of two semesters of Physics and two semesters of calculus fulfills the admissions requirement for the major, but completion of the entire sequence of Physics and all Math before transfer is highly preferred.
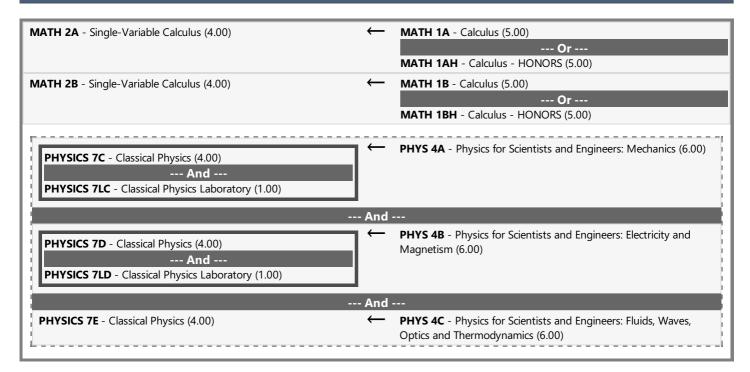
NOTE: In fulfillment of the requirements below, a single course may be used only once.

Students planning to pursue a single-subject secondary teaching credential in their major as an undergraduate should consider cross-enrolling into two foundational education courses through UCI DCE before transfer, while still enrolled at their community college, in order to remain eligible to graduate in two years after transfer. For more information about specific courses, the STEM teaching pathway, and cross-enrollment, please contact **UCI's CalTeach Program** for more details.

For information regarding the AP and IB examination credit policies refer to the UCI General Catalogue.

For more information regarding the UC Irvine Transfer Admission Guarantee Program, please visit TAG

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

MATH 2A - Single-Variable Calculus (4.00)	← **MATH 1A** - Calculus (5.00) --- Or --- **MATH 1AH** - Calculus - HONORS (5.00)
MATH 2B - Single-Variable Calculus (4.00)	← **MATH 1B** - Calculus (5.00) --- Or --- **MATH 1BH** - Calculus - HONORS (5.00)
PHYSICS 7C - Classical Physics (4.00) --- And --- **PHYSICS 7LC** - Classical Physics Laboratory (1.00)	← **PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)
--- And ---	
PHYSICS 7D - Classical Physics (4.00) --- And --- **PHYSICS 7LD** - Classical Physics Laboratory (1.00)	← **PHYS 4B** - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)
--- And ---	
PHYSICS 7E - Classical Physics (4.00)	← **PHYS 4C** - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)

ADDITIONAL APPROVED COURSES FOR THE MAJOR

PHYSICS 52A - Fundamentals of Experimental Physics (2.00)	←	**PHYS 4C** - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)
PHYSICS 52B - Fundamentals of Experimental Physics (2.00)	←	**PHYS 4B** - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)
PHYSICS 52C - Fundamentals of Experimental Physics (2.00)	←	**PHYS 4D** - Physics for Scientists and Engineers: Modern Physics (6.00)

PHYSICS 53 - Introduction to C and Numerical Analysis (4.00) ←
- **CIS 26A** - C as a Second Programming Language (4.50)
--- Or ---
- **CIS 22A** - Beginning Programming Methodologies in C++ (4.50)

--- Or ---

EECS 10 - Computational Methods in Electrical and Computer Engineering (4.00) ←
- **CIS 22A** - Beginning Programming Methodologies in C++ (4.50)
--- Or ---
- **CIS 26A** - C as a Second Programming Language (4.50)
--- Or ---
- **CIS 35A** - Java Programming (4.50)
--- Or ---
- **CIS 36A** - Introduction to Computer Programming Using Java (4.50)

--- Or ---

EECS 12 - Introduction to Programming (4.00) ←
- **CIS 22A** - Beginning Programming Methodologies in C++ (4.50)
--- Or ---
- **CIS 26A** - C as a Second Programming Language (4.50)
--- Or ---
- **CIS 35A** - Java Programming (4.50)
--- Or ---
- **CIS 36A** - Introduction to Computer Programming Using Java (4.50)
--- Or ---
- **CIS 36B** - Intermediate Problem Solving in Java (4.50)

--- Or ---

ENGRMAE 10 - Introduction to Engineering Computations (4.00) ←
- **CIS 22A** - Beginning Programming Methodologies in C++ (4.50)
--- Or ---
- **CIS 22B** - Intermediate Programming Methodologies in C++ (4.50)
--- Or ---
- **CIS 22BH** - Intermediate Programming Methodologies in C++ - HONORS (4.50)
--- Or ---
- **CIS 26A** - C as a Second Programming Language (4.50)
--- Or ---
- **CIS 26B** - Advanced C Programming (4.50)
--- Or ---
- **CIS 26BH** - Advanced C Programming - HONORS (4.50)

--- Or ---

I&C SCI 31 - Introduction to Programming (4.00) ←
- **CIS 40** - Introduction to Programming in Python (4.50)
--- Or ---
- **CIS 41A** - Python Programming (4.50)

PHYSICS 60 - Thermal Physics (4.00)	←	No Course Articulated
PHYSICS 61A - Modern Physics (4.00)	←	**PHYS 4D** - Physics for Scientists and Engineers: Modern Physics (6.00)
PHYSICS 61B - Modern Physics (4.00)	←	No Course Articulated
MATH 2D - Multivariable Calculus (4.00)	←	**MATH 1D** - Calculus (5.00) --- Or --- **MATH 1DH** - Calculus - HONORS (5.00)
MATH 2E - Multivariable Calculus (4.00)	←	**MATH 1D** - Calculus (5.00) --- Or --- **MATH 1DH** - Calculus - HONORS (5.00)
MATH 3A - Introduction to Linear Algebra (4.00)	←	**MATH 2B** - Linear Algebra (5.00) --- Or --- **MATH 2BH** - Linear Algebra - HONORS (5.00)

MATH 3D - Elementary Differential Equations (4.00)	←	MATH 2A - Differential Equations (5.00)
		--- Or ---
		MATH 2AH - Differential Equations - HONORS (5.00)
PHYSICS 50 - Mathematical Methods for Physical Science (4.00)	←	No Course Articulated

END OF AGREEMENT