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

Applied 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) and a cumulative GPA of 3.0 in required courses

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

Concentrations are offered in:

- Biomedical Physics, and
- Engineering Physics

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.

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

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

PHYSICS 61A - Modern Physics (4.00)	←	**PHYS 4D** - Physics for Scientists and Engineers: Modern Physics (6.00)
--- Or ---		
PHYSICS 51A - Modern Physics (4.00)	←	**PHYS 4D** - Physics for Scientists and Engineers: Modern Physics (6.00)

COMPLETE ONE OF THE FOLLOWING

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 ---		
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←	**CIS 22A** - Beginning Programming Methodologies in C++ (4.50) **--- And ---** **CIS 22B** - Intermediate Programming Methodologies in C++ (4.50) **--- Or ---** **CIS 26A** - C as a Second Programming Language (4.50) **--- And ---** **CIS 29** - Advanced C++ Programming (4.50)
--- Or ---		
MATH 9 - Introduction to Programming for Numerical Analysis (4.00)	←	No Course Articulated
--- 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)

COMPLETE ONE OF THE FOLLOWING

PHYSICS 60 - Thermal Physics (4.00)	←	No Course Articulated
--- Or ---		

CHEM 1C - General Chemistry (4.00) **--- And ---** **CHEM 1LC** - General Chemistry Laboratory (3.00)	←	**CHEM 1C** - General Chemistry and Qualitative Analysis (5.00) **--- Or ---** **CHEM 1CH** - General Chemistry and Qualitative Analysis - HONORS (5.00)
--- Or ---		
ENGRMAE 91 - Introduction to Thermodynamics (4.00)	←	No Course Articulated

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)

END OF AGREEMENT