# **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

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

## Physics B.S.

### **GENERAL INFORMATION FOR ALL MAJORS**

All transfer applicants must satisfy University of California admissions eligibility requirements as well as meet campus selection criteria. All admission requirements must be completed by the end of spring prior to transfer. For more information on UC admissions eligibility requirements and admission to UC Santa Cruz, please visit the Admissions website: <a href="https://admissions.ucsc.edu/attend-ucsc/transfer-students">https://admissions.ucsc.edu/attend-ucsc/transfer-students</a>.

This articulation agreement lists course-to-course, sequence-to-sequence or requirement substitutions for preparation in the major. Transfer students are strongly encouraged to complete as many major preparatory courses as possible prior to enrolling at UCSC. Completion of all major preparatory courses is not an admissions requirement, but some majors require certain courses to be completed prior to transfer with a specified GPA, and completion or near completion of major preparatory courses will help students move more efficiently toward graduation after transfer.

UC Santa Cruz Advanced Placement (AP) and International Baccalaureate (IB) credit policies are detailed in the link below:

UC Santa Cruz AP/IB Chart 2022-2023

### PHYSICS B.S.

Please visit the department's website to learn more about this major: https://www.physics.ucsc.edu

#### **ADMISSION SELECTION CRITERIA**

To be considered for admission to the Physics B.S. major, transfer students must pass **equivalents** of the following courses by the end of spring term for students planning to enter in the fall, with a cumulative GPA of 2.70 or higher:

PHYS 5A: Introduction to Physics I

PHYS 5B: Introduction to Physics II

PHYS 5C: Introduction to Physics III

#### In addition, transfer students must achieve a minimum grade of C (2.0) in courses articulated to the following:

MATH 19A: Calculus for Science, Engineering, and Mathematics

MATH 19B: Calculus for Science, Engineering, and Mathematics

MATH 23A: Vector Calculus

### In addition, the following course is strongly recommended prior to transfer to ensure timely graduation:

PHYS 5D: Introduction to Physics IV

## **Winter Applicants**

Students applying for admission to the winter term will be required to complete the following courses in addition to the courses required for fall entrance:

PHYS 5D: Introduction to Physics IV

MATH 23B: Vector Calculus

Although not required for admission, transfer students are strongly encouraged to complete all UCSC general education requirements or the Intersegmental General Education Transfer Curriculum (IGETC) before coming to UC Santa Cruz, without which they may not be able to graduate in two years.

**THIS IS A SCREENING MAJOR.** For more information on screening major requirements please visit the Admissions website: <a href="https://admissions.ucsc.edu/posts/screening-major-selection-criteria">https://admissions.ucsc.edu/posts/screening-major-selection-criteria</a>

#### **MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER**

PHYS 5B - Introduction to Physics II (5.00)	← PHYS 4C - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)
PHYS 5C - Introduction to Physics III (5.00)	PHYS 4B - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)
<b>MATH 19A</b> - Calculus for Science, Engineering, and Mathematics (5.00)	← MATH 1A - Calculus (5.00)  Or  MATH 1AH - Calculus - HONORS (5.00)
MATH 19B - Calculus for Science, Engineering, and Mathematics (5.00)	MATH 1B - Calculus (5.00)  And  MATH 1C - Calculus (5.00)  Or  MATH 1BH - Calculus - HONORS (5.00)  And
MATH 23A - Vector Calculus (5.00)	MATH 1CH - Calculus - HONORS (5.00)  ← MATH 1D - Calculus (5.00)  Or  MATH 1DH - Calculus - HONORS (5.00)

# STRONGLY RECOMMENDED ADVANCED PREPARATION COURSES

PHYS 5D - Introduction to Physics IV (5.00)	PHYS 4C - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00) And
	<b>PHYS 4D</b> - Physics for Scientists and Engineers: Modern Physics (6.00)

ADDITIONAL MAJOR PREPARATION COURSES				
PHYS 5L - INTRODUCTION TO PHYSICS I LABORATORY (1.00)	<b>←</b>	PHYS 4A - Physics for Scientists and Engineers: Mechanics (6.00)		
PHYS 5M - INTRODUCTION TO PHYSICS II LABORATORY (1.00)	<b>←</b>	<b>PHYS 4C</b> - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)		
PHYS 5N - INTRODUCTION TO PHYSICS III LABORATORY (1.00)	$\leftarrow$	<b>PHYS 4B</b> - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)		
MATH 23B - Vector Calculus (5.00)	<b>←</b>	MATH 1D - Calculus (5.00) Or MATH 1DH - Calculus - HONORS (5.00)		

# **END OF AGREEMENT**