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

Electrical Engineering Minor

GENERAL INFORMATION FOR ALL MINORS

UC Santa Cruz students have the option to complete one or more minors, provided they complete all of the required coursework for the minor(s). The sponsoring department establishes the course requirements for a minor. The minor involves substantial work in the discipline and requires no fewer than 25 upper-division or graduate credits. The minor appears on the student's official transcript but not on the diploma.

Students do not apply for admission into a minor when applying to UC Santa Cruz. If interested in completing a minor, transfer students must contact the department sponsoring the minor after enrolling at UCSC.

ELECTRICAL ENGINEERING MINOR

The electrical engineering minor provides a solid foundation in the core areas of electronic circuits and signals and systems, as well as the prerequisite material in mathematics and physics. Concentration of upper-division electives in either of the major tracks constitutes substantial and focused work in the discipline of electrical engineering. This minor is particularly suitable for students with majors in applied physics or any School of Engineering major.

Please visit the department's website to learn more about this minor: https://engineering.ucsc.edu/departments/electrical-and-computer-engineering

PREPARATION FOR THE MINOR

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

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

ECE 101: Introduction to Electronic Circuits AND ECE 101L: Introduction to Electronic Circuits Laboratory

MATH 23A: Vector Calculus OR

AM 30: Multivariate Calculus for Engineers

One of the following options:

AM 10: Mathematical Methods for Engineers I AND

AM 20: Mathematical Methods for Engineers ${\rm II}$

<u>OR</u>

MATH 21: Linear Algebra AND

MATH 24: Ordinary Differential Equations

One of the following physics sequences:

PHYS 5A: Introduction to Physics I AND PHYS 5L: Introduction to Physics I Laboratory AND

PHYS 5C: Introduction to Physics III AND PHYS 5N: Introduction to Physics III Laboratory

<u>OR</u>

PHYS 6A: Introductory Physics I AND PHYS 6L: Introductory Physics I Laboratory AND

PHYS 6C: Introductory Physics III AND PHYS 6N: Introductory Physics III Laboratory

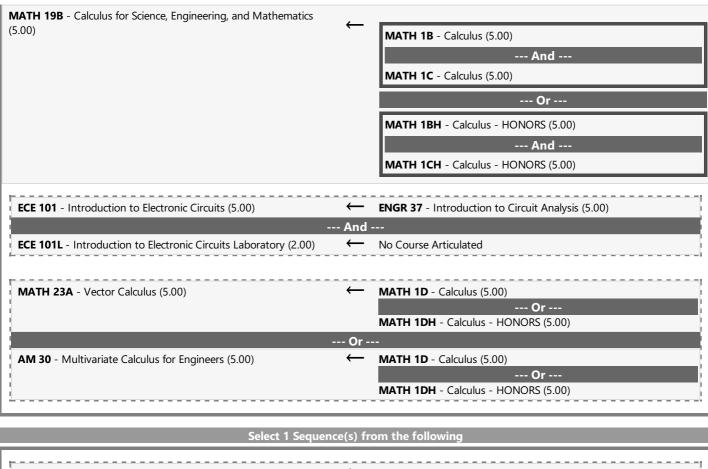
PREPARATION FOR THE MINOR

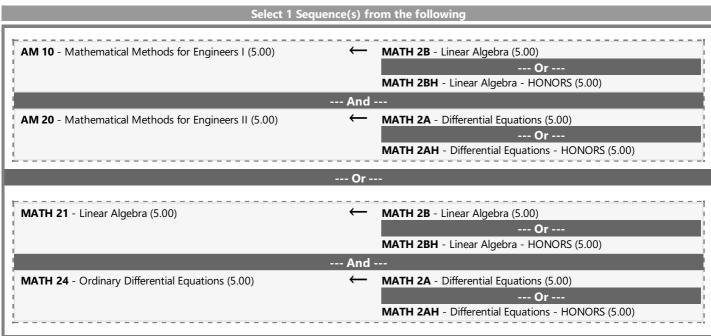
MATH 19A - Calculus for Science, Engineering, and Mathematics (5.00)

MATH 1A - Calculus (5.00)

-- Or ---

MATH 1AH - Calculus - HONORS (5.00)





PHYS 5A - Introduction to Physics I (5.00) --- And -- PHYS 5L - INTRODUCTION TO PHYSICS I LABORATORY (1.00) --- And -- PHYS 5C - Introduction to Physics III (5.00) --- And -- PHYS 4B - Physics for Scientists and Engineers: Mechanics (6.00) --- And -- PHYS 4B - Physics for Scientists and Engineers: Electricity and Magnetism (6.00) --- And -- PHYS 5N - INTRODUCTION TO PHYSICS III LABORATORY (1.00) --- And -- PHYS 4B - Physics for Scientists and Engineers: Electricity and Magnetism (6.00) --- And -- --- Or ---

PHYS 6A - Introductory Physics I (5.00)	\leftarrow	PHYS 4A - Physics for Scientists and Engineers: Mechanics (6.00)
		Or
		PHYS 2A - General Introductory Physics (5.00)
	And	
PHYS 6L - Introductory Physics I Laboratory (1.00)	\leftarrow	PHYS 4A - Physics for Scientists and Engineers: Mechanics (6.00)
		Or
		PHYS 2A - General Introductory Physics (5.00)
	And	
PHYS 6C - Introductory Physics III (5.00)	\leftarrow	PHYS 4B - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)
		Or
		PHYS 2B - General Introductory Physics (5.00)
	And	
PHYS 6N - INTRODUCTORY PHYSICS III LABORATORY (1.00)	←	PHYS 4B - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)
		Or
		PHYS 2B - General Introductory Physics (5.00)

END OF AGREEMENT