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

Applied Mathematics 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.

APPLIED MATHEMATICS MINOR

Please visit the department's website to learn more about this minor: https://www.soe.ucsc.edu/departments/applied-mathematics

PREPARATION FOR THE MINOR

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

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

MATH 23A: Vector Calculus **AND** MATH 23B: Vector Calculus **OR**
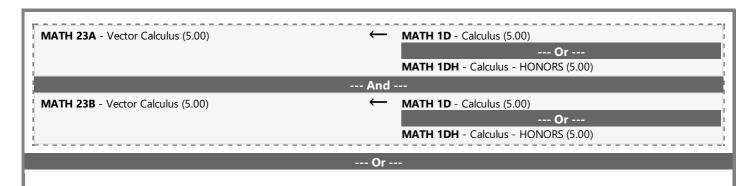
AM 30: Multivariate Calculus for Engineers

One of the following sequences:

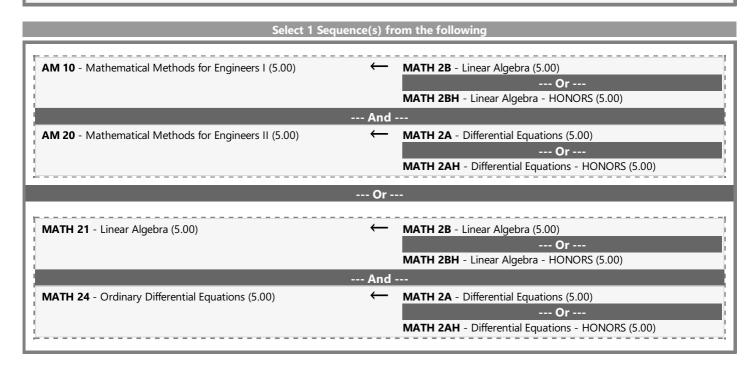AM 10: Mathematical Methods for Engineers I **AND** AM 20: Mathematical Methods for Engineers II **OR**

MATH 21: Linear Algebra **AND** MATH 24: Ordinary Differential Equations

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)
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 1CH** - Calculus - HONORS (5.00)

MATH 23A - Vector Calculus (5.00)	←	**MATH 1D** - Calculus (5.00) --- Or --- **MATH 1DH** - Calculus - HONORS (5.00)
--- And ---		
MATH 23B - Vector Calculus (5.00)	←	**MATH 1D** - Calculus (5.00) --- Or --- **MATH 1DH** - Calculus - HONORS (5.00)

--- Or ---

AM 30 - Multivariate Calculus for Engineers (5.00)   ←   **MATH 1D** - Calculus (5.00)

--- Or ---

MATH 1DH - Calculus - HONORS (5.00)

Select 1 Sequence(s) from the following

AM 10 - Mathematical Methods for Engineers I (5.00)   ←   **MATH 2B** - Linear Algebra (5.00)

--- Or ---

MATH 2BH - Linear Algebra - HONORS (5.00)

--- And ---

AM 20 - Mathematical Methods for Engineers II (5.00)   ←   **MATH 2A** - Differential Equations (5.00)

--- Or ---

MATH 2AH - Differential Equations - HONORS (5.00)

--- Or ---

MATH 21 - Linear Algebra (5.00)   ←   **MATH 2B** - Linear Algebra (5.00)

--- Or ---

MATH 2BH - Linear Algebra - HONORS (5.00)

--- And ---

MATH 24 - Ordinary Differential Equations (5.00)   ←   **MATH 2A** - Differential Equations (5.00)

--- Or ---

MATH 2AH - Differential Equations - HONORS (5.00)

END OF AGREEMENT