Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, San Diego 2022-2023 General Catalog, Quarter

From: De Anza College 2022-2023 General Catalog, Quarter

MAE: Environmental Engineering B.S.

GENERAL INFORMATION

DATED MATERIAL, SUBJECT TO CHANGE. PLEASE CONSULT CURRENT UCSD GENERAL CATALOG FOR ANY ADDITIONAL INFORMATION

Effective Fall 2017, major preparation will be required for this major. For details, visit: http://admissions.ucsd.edu/MajorPrep

As of Fall 2014, the BS degrees in Mechanical, Aerospace, and Environmental Engineering are capped. Because of heavy student interest in these three majors, and the limited resources available to accommodate this demand, maintenance of a high-quality program makes it necessary to limit enrollment.

Students must apply to be admitted directly into the Environmental Engineering major at UC San Diego. To be considered for admission to the Environmental Engineering major, transfer students must have completed the following courses:

- Calculus I-for Science and Engineering (Math. 20A)
- Calculus II-for Science and Engineering (Math. 20B)
- Calculus and Analytic Geometry (Math. 20C)
- Differential Equations (Math. 20D)
- Linear Algebra (Math. 18)
- Calculus-based physics series with lab experience (Physics 2A-B-C with Physics 2CL)
- Chemistry 6A

In addition to the required courses above, it is recommended that transfers complete Vector Calculus (Math. 20E) and a MATLAB programming course, if available

Courses that have not been articulated and do not show an equivalent transfer course on ASSIST.org must be approved via petition on an individual basis by the MAE Department. Please refer to the MAE Department's Undergraduate Program website for more information: http://mae.ucsd.edu/undergrad.

The Environmental Engineering major focuses on conveying an understanding and awareness of the fundamental processes associated with human industrial activity that have environmental implications, and on equipping the next generation of engineers with the tools to develop technologies that enable sustainable economic growth. Environmental Engineers are employed not only in traditional areas such as water remediation and air pollution management, but increasingly in areas of engineering where environmental concerns need to be addressed from the beginning of the product design cycle through its production cycle and beyond.

UC San Diego Advanced Placement (AP) and International Baccalaureate (IB) credit policies are detailed in the links below:

Advanced Placement (AP) https://www.ucsd.edu/catalog/pdf/APC-chart.pdf

International Baccalaureate (IB) https://catalog.ucsd.edu/_files/international-baccalaureate-credits-chart.pdf

LOWER DIVISION MAJOR REQUIREMENTS

MATH 18 - Linear Algebra (4.00)	←	MATH 2B - Linear Algebra (5.00)
		Or
		MATH 2BH - Linear Algebra - HONORS (5.00)
MATH 20A - Calculus for Science and Engineering (4.00)	\leftarrow	MATH 1A - Calculus (5.00)
		Or
		MATH 1AH - Calculus - HONORS (5.00)

MATH 20B - Calculus for Science and Engineering (4.00)	←	MATH 1B - Calculus (5.00) Or MATH 1BH (Calculus HONORS (5.00))
MATH 20C - Calculus and Analytic Geometry for Science and Engineering (4.00)	←	MATH 1BH - Calculus - HONORS (5.00)
		MATH 1C - Calculus (5.00)
		And
		MATH 1D - Calculus (5.00)
		Or
		MATH 1CH - Calculus - HONORS (5.00)
		And
		MATH 1DH - Calculus - HONORS (5.00)
MATH 20D - Introduction to Differential Equations (4.00)	←	MATH 2A - Differential Equations (5.00)
		Or
		MATH 2AH - Differential Equations - HONORS (5.00)
MATH 20E - Vector Calculus (4.00) ● Articulation is subject to placement by proficiency exam	—	No Course Articulated
Petition department after transfer		
retition department after transfer		
PHYS 2A - Physics - Mechanics (4.00)	←	PHYS 4A - Physics for Scientists and Engineers: Mechanics (6.00)
PHYS 2B - Physics - Electricity and Magnetism (4.00)	←	PHYS 4B - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)
PHYS 2C - Physics - Fluids, Waves, Thermodynamics, and Optics (4.00)	←	PHYS 4C - Physics for Scientists and Engineers: Fluids, Waves, Option and Thermodynamics (6.00)
MATERIAN Developed for Facility in Audioi (400)		CIC 25A La Danas de la FO
MAE 8 - MATLAB Programming for Engineering Analysis (4.00)	←	CIS 35A - Java Programming (4.50)
		CIS 22A - Beginning Programming Methodologies in C++ (4.50)
		Or
		CIS 40 - Introduction to Programming in Python (4.50)
		CIS 41A - Python Programming (4.50)
		Or
		CIS 41B - Advanced Python Programming (4.50)
MAE 3 - Introduction to Engineering Graphics and Design (4.00)	<u> </u>	No Course Articulated
CHEM 6A - General Chemistry I (4.00)	←	CHEM 1A - General Chemistry (5.00)
	•	Or
		CHEM 1AH - General Chemistry - HONORS (5.00)
CHEM 6B - General Chemistry II (4.00)	\leftarrow	CHEM 1B - General Chemistry (5.00)
		Or
	,	CHEM 1BH - General Chemistry - HONORS (5.00)
CHEM 6C - General Chemistry III (4.00)	←	CHEM 1C - General Chemistry and Qualitative Analysis (5.00) Or CHEM 1CH - General Chemistry and Qualitative Analysis - HONOR

END OF AGREEMENT