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

NANO: Chemical 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

Effective Fall 2015, admission to all of the engineering majors at UC San Diego will be limited, as the majors have been declared capped. Students must apply to be directly admitted to the Chemical Engineering major.

Transfer students must have completed the following required courses in order to be considered for admission to the Chemical Engineering major:

- 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)
- Calculus-based physics series (Physics 2AB)
- General Chemistry with lab experience (Chemistry 6ABC + 7L)

Special Advising Note:

Preparing well for the major helps students move efficiently toward graduation. Transfer students may complete the B.S. in Chemical Engineering in two years, if students have completed the required courses above, in addition to the following highly recommended courses:

- Linear Algebra (Math 18, formerly 20F)
- Calculus-based physics series with lab experience (Physics 2C + 2CL)

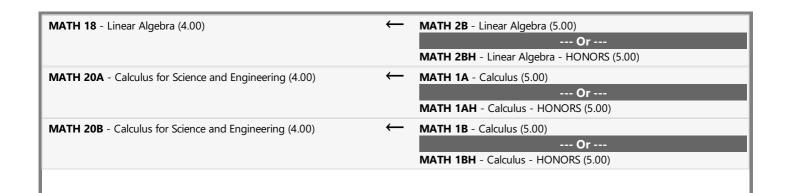
Chemical Engineering is an ABET-accredited four-year curriculum which encompasses studies in organic and physical chemistry, fluid mechanics, heat and mass transfer, separation processes, and reactor and plant design. Many chemical engineering students pursue M.S. or Ph.D. degrees, but most seek employment at the B.S. level. They are employed not only in the traditional petro-chemical, food, and polymers industries but also in high-technology industries such as biotechnology, electronics, and aerospace, and emerging fields such as environmental engineering.

For more information please visit http://nanoengineering.ucsd.edu/

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



MATH 20C - Calculus and Analytic Geometry for Science and			
Engineering (4.00)	`	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)	←	No Course Articulated	
Articulation is subject to placement by proficiency exam		No course / intended	
Petition department after transfer			
PHYS 2A - Physics - Mechanics (4.00)	\leftarrow	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)	\leftarrow	PHYS 4C - Physics for Scientists and Engineers: Fluids, Waves, Option and Thermodynamics (6.00)	
PHYS 2CL - Physics Laboratory - Electricity and Magnetism (2.00)	←	PHYS 4B - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)	
CENG 4 - Experience Chemical Engineering (1.00)	←	This course must be taken at the university after transfer	
CENG 15 - Engineering Computation Using MATLAB (4.00)	\leftarrow	No Course Articulated	
CHEM 6A - General Chemistry I (4.00)	\leftarrow	CHEM 1A - General Chemistry (5.00)	
		Or CHEM 1AH - General Chemistry - HONORS (5.00)	
CHEM 6B - General Chemistry II (4.00)	←	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)	
		CHEM 1CH - General Chemistry and Qualitative Analysis - HONOR	
		(5.00)	
CHEM 7L - Introductory Inorganic Chemistry Laboratory (4.00)	\leftarrow	CHEM 1B - General Chemistry (5.00)	
		And	
		CHEM 1C - General Chemistry and Qualitative Analysis (5.00)	
		Or	
		CHEM 1BH - General Chemistry - HONORS (5.00)	
		And	
		CHEM 1CH - General Chemistry and Qualitative Analysis -	
		HONORS (5.00)	

END OF AGREEMENT