SCIENCE, MATH & ENGINEERING PATHWAY PROGRAM MAP: CATALOG YEAR: 2022-23



Chemistry: Associate in Science for Transfer UC

What gives fireworks their color? How does a drug test work? Chemistry is the central science behind these questions and many more. The chemistry major focuses on the study and creation of materials, pharmaceuticals, biological systems, environmental systems, and industrial processes.

Please see a Pathways Counselor: Create an education plan customized to meet your needs. Contact a Counselor

Transfer Majors/Award Focus

• Chemistry, A.S.-T CSU, UC

GE Pattern/Units

GE Pattern: CTotal Units: 66



Program maps indicate the major coursework and recommended general education courses to fulfill your degree in 2 years (approximately 15 units/semester or 30 units/year). If you are a part-time student, start Semester 1 courses and follow the course sequence. Some of the courses listed may be substituted by another course. Please view these options in the official course <u>catalog</u>.

Semester 1 16 Units

V	COURSE	TITLE	UNIT
	MATH-211	Analytic Geometry and Calculus I	4
	ENGL-101	College Composition	4
	CHEM-101	General Chemistry I	5
	COMM-100 or COMM-104	Public Speaking or Argumentation and Debate	3

8 Units
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¥	COURSE	TITLE	UNIT
	CHEM-102	General Chemistry II	5
	ENGL-103	Critical Thinking and Writing	3
	MATH-212	Analytic Geometry and Calculus II	4
	PS-101	Introduction to American Government and Politics	3
	PHIL-101 or ANTH-145	Introduction to Philosophy or Introduction to Linguistic Anthropology	3

Career Options

Chemical Engineer (B, M, D)
Chemical Technician (A, B)
Biochemistry and biophysicist (B, D)

Find more careers: msjc.emsicc.com

Required Education: SM: some college; C: Certificate; A: Associate,

B: Bachelor's, M: Master's; D: Doctorate



Financial Aid

Financial aid is determined by the number of credit hours you take in a semester. Maximize your financial aid by taking 12-15 units per semester.

~	COURSE	TITLE	UNIT
	SPAN-101 or	Elementary Spanish I or	
	FREN-101 or	Elementary French I or	4
	ASL-100	American Sign Language I	

~	COURSE	TITLE	UNIT
	BIOL-150	General Biology I	4
	CHEM-112	Organic Chemistry I	5
	PHY-201	Mechanics and Wave Motion	4

Semester 4	15 Units
Semester 4	15 Ur

~	COURSE	TITLE	UNIT
	CHEM-113	Organic Chemistry II	5
	PHY-202	Electricity and Magnetism	4
	ART-104	World Art	3
	HIST-111 or HIST-112	U.S. History to 1877 or U.S. History Since 1865	3

Work Experience

Sign up for a special project or internship opportunity. Gain work experience and earn credits.