

UNIVERSITY OF CALIFORNIA TRANSFER PATHWAY: CHEMISTRY

PROGRAM DESCRIPTION:

The University of California (UC) Transfer Pathway for Chemistry degree curriculum provides students a basis for understanding the physical concepts and skills required for attainment of upper division status as a Chemistry major at a four-year college or university. The student that earns this degree has completed lower division preparation for a Chemistry major at a UC and should be able to graduate with a Bachelor's degree within two years attending at full time status after transfer. After earning this degree and transferring to a UC, students will be expected to complete two more courses in IGETC Area 3 and two more courses in IGETC Area 4 to fulfill UC general education requirements. Successful completion of the UC Transfer Pathway Chemistry degree with a minimum GPA of 3.5 guarantees the student admission into the University of California system (but does not guarantee acceptance to a particular campus) to pursue a baccalaureate degree in Chemistry. Students will still be competitive at several UC campuses with a GPA below the 3.5 threshold, and all students who complete the degree are encouraged to apply to the UC.

CAREER AT A GLANCE:

HOW DO I KNOW IF THIS MAJOR IS FOR ME?

- You like to research information and conduct experiments
- You enjoy working with ideas and solving problems
- You are a results-orientated person who can work independently
- You like to make decisions
- You like to improve and create new products
- You are comfortable working with specialized instruments and computers
- You are patient, persistent, and have strong critical thinking skills

Use Focus2Career on your MyChaffey portal to learn more about careers and majors that fit you best.

WHERE CAN I WORK?

Agricultural Companies	Biotechnology Firms
Colleges & Universities	Environmental Agencies
Hospitals & Medical Facilities	Laboratories
Local and Federal Government	Manufacturing Firms
Pharmaceutical Companies	K-12 Schools
Publishing Firms	Scientific Research and Development Services

For more information visit: www.labormarketinfo.edd.ca.gov/OccGuides

HOW DO I GET STARTED?

- Start taking introductory biology, math and chemistry courses
- Apply for entry level positions in reception, data entry, or customer service with employers where you would like to promote
- Job shadow and conduct informational interviews with professionals in positions you are interested in pursuing
- Include research projects on your resume
- Volunteer in schools or other research labs
- Attend university campus tours and visit the Transfer Center to decide where you want to transfer

WHAT CAN I DO WITH THIS ASSOCIATE DEGREE?

<i>Position Title</i>	<i>CA Median Salary</i>
Agricultural Technician	\$41,940
Chemical Plant/System Operator	\$65,430
Chemical Technician	\$43,370
Laboratory Assistant	\$55,000
Resource Technician	\$35,250
Research Assistant	\$51,500
Manufacturing Production Technician	\$69,070
Science Technician	\$41,940
Quality Control Inspector	\$50,180
Food Science Technician	\$41,940

WHAT CAN I DO WITH HIGHER EDUCATION AND ADDITIONAL TRAINING?

<i>Position Title</i>	<i>CA Median Salary</i>
Agricultural/Food Scientist	\$63,650
Chemistry Teacher	\$83,660
Chemist	\$79,740
Natural Scientist Manager	\$138,190
Environmental Scientist	\$81,680
Forensic Scientist	\$78,960
Geneticist	\$83,660
University Professor	\$105,190
Physician's Assistant	\$115,720
Medical Doctor	\$190,860
Food Scientist	\$63,650
Plant Scientist	\$76,770
Materials Engineer	\$113,380
Conversation Resource Manager	\$81,680
Laboratory Manager	\$106,460
Pharmacist	\$143,190
Research Director	\$138,190

For additional information about career pathways and to find out if this major is a good fit for you visit the Career Center located in MACC 203. Career information was collected from www.onetonline.org and www.bls.gov.

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MAJOR AND COURSE REQUIREMENTS:

To obtain the UC Transfer Pathway Chemistry degree, students must complete the following:

- 50 units of major preparation requirements.
- 16-20 units of IGETC general education requirements.

LEGEND: G=Grade IP=In Progress N=Need **Bold: Prerequisites** Plain Text: No Prerequisites

Major Requirements for the University of California Transfer Pathway Associate in Science Degree (S087)

		Grade	IP	Need	Units
CHEM 24A	General Chemistry I				5
CHEM 24B	General Chemistry II				5
CHEM 76A	Organic Chemistry I				4
CHEM 76B	Organic Chemistry II				4
MATH 65A	Calculus I				4
MATH 65B	Calculus II				4
MATH 75	Calculus III				5
MATH 85	Differential Equations				4
PHYS 45	Physics for Scientists and Engineers I				5
PHYS 46	Physics for Scientists and Engineers II				5
PHYS 47	Physics for Scientists and Engineers III				5

General Education IGETC Area 1: English Composition Requirements (6 units)

		Grade	IP	Need	Units
ENGL 1A	Composition				3
ENGL 1B	Advanced Composition and Critical Thinking				3

Additional General Education Requirements (10-14 units)

		Grade	IP	Need	Units
IGETC Area 3	Arts and Humanities				3
IGETC Area 4	Social and Behavioral Sciences				3
IGETC Area 5B	Biological Sciences				4
IGETC Area 6	Language Other Than English				0-4

Total units for the major 66-74

**MATH-81 Linear Algebra, 4, is recommended pre-transfer for the following UCs: Berkeley, Davis, Merced, and Santa Barbara. Transfer students will not be negatively affected in competitiveness for admission if completed post-transfer as needed.*

Student Name: _____

ID#: _____

Date: _____

Counselor: _____

COUNSELOR NOTES:

\$46 per unit for CA Residents