

# CHEMISTRY FOR TRANSFER (AS-T)

## PROGRAM DESCRIPTION:

The Associate in Science for Transfer (AS-T) degree in chemistry is the science of matter, its characterization, composition, and its transformations. It is a vital, growing enterprise as opposed to a mere accumulation of knowledge. An understanding of chemistry is basic to the physical and biological sciences and fundamental in a variety of occupations. Specialized fields of chemistry are inorganic, organic, physical, nuclear, biochemistry, and chemical engineering. Chaffey College offers the first two years of the baccalaureate degree chemistry curriculum.

## 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](http://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 wish to have
- 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 more information about careers, education and training requirements, salary data, and job outlooks visit [www.onetonline.org](http://www.onetonline.org)*

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**MAJOR AND COURSE REQUIREMENTS:**

To obtain the Chemistry AS-T degree, students must:

- Complete all the major requirements listed below with grades of C or better
- Complete a minimum of 60 CSU-transferable units with a grade point average (GPA) of 2.0 or better.
- Complete either the California State University General Education Breadth pattern (CSU GE), or the Intersegmental General Education Transfer Curriculum (IGETC).

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

<i>Major Requirements for the Associate in Science for Transfer Degree (S086A/B)</i>		<b>Grade</b>	<b>IP</b>	<b>Need</b>	<b>Units</b>
<b>CHEM 24A</b>	<b>General Chemistry I</b>				<b>5</b>
<b>CHEM 24B</b>	<b>General Chemistry II</b>				<b>5</b>
<b>CHEM 76A</b>	<b>Organic Chemistry I</b>				<b>4</b>
<b>CHEM 76B</b>	<b>Organic Chemistry II</b>				<b>4</b>
<b>MATH 65A</b>	<b>Calculus I</b>				<b>4</b>
<b>MATH 65B</b>	<b>Calculus II</b>				<b>4</b>
<b>PHYS 45</b>	<b>Physics for Scientists and Engineers I</b>				<b>5</b>
<b>PHYS 46</b>	<b>Physics for Scientists and Engineers II</b>				<b>5</b>

Student Name: \_\_\_\_\_

ID#: \_\_\_\_\_

Date: \_\_\_\_\_

Counselor: \_\_\_\_\_

**Units for the Major: 36**

	<b>IGETC STEM</b>	<b>CSUGE STEM</b>
General Education	37	39
Total units that may be double counted	0	0
Elective (CSU transferable) units	0	0
	<b>60</b>	<b>60</b>

**COUNSELOR NOTES:**


\$46 per unit for CA Residents