

2023-2024

## Associate in Science in Chemistry for Transfer Degree

Complete the following program of study. (Major C.6401.AS-T) Major requirements (37 units minimum).

An Associate in Science in Chemistry for Transfer Degree is designed for students who plan to complete a bachelor's degree in a similar major at a CSU campus. An Associate in Science in Chemistry for Transfer Degree will develop a student's ability to collect, record, organize, analyze, critically evaluate, and interpret chemical information and data. The student will learn how to apply appropriate theories and techniques, to solve quantitative and qualitative problems. The program will also involve learning how to use computational and critical thinking skills, applying concept knowledge, and effectively communicating scientific information. These skills and this set of knowledge will be valuable to a student transferring to a CSU to major in chemistry. It will also enhance a student's preparation to go on to earn a graduate degree as well as a wide range of rewarding careers.

Name: \_\_\_\_\_ Student ID: \_\_\_\_\_ Date: \_\_\_\_\_

### Course Overview and Selection

#### Required Core:

Course	Course Description	Units	C-ID	Completed	In Progress	Planned
<b>CHEM 1A and CHEM 1B</b>	General Chemistry (5) and General Chemistry and Qualitative Analysis (5)	<b>10</b>	CHEM 120S			
<b>CHEM28A &amp; CHEM29A and CHEM28B &amp; CHEM29B</b>	Organic Chemistry I (3) & Organic Chemistry Laboratory I (2) and Organic Chemistry II (3) & Organic Chemistry Laboratory II (2)	<b>10</b>	CHEM 160S			
<b>PHYS 4A</b>	Physics for Scientists and Engineers	<b>4</b>	PHYS 205			
<b>PHYS 4B</b>	Physics for Scientists and Engineers	<b>4</b>	PHYS 210			
<b>MATH 5A</b>	Math Analysis I	<b>5</b>	MATH 210			
<b>MATH 5B</b>	Math Analysis II	<b>4</b>	MATH 220			

Total units for major does not include required general education or prerequisite courses.

#### Notes:

- Certification of either the California State University General Education Breadth (CSU GE-Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC-CSU version) is required. CSU GE- Breadth and IGETC advising sheets are available in Student Services, AC2-133 or online at CCC GE (CSU/UC) GE and Major Sheets.
- Courses may double count in the major and CSU GE-Breadth or IGETC.
- To see what CSU campuses accept this degree go to [transfer tool](#).

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## Program Learning Outcomes:

Upon successful completion of this program, the student will be able to:

1. Correctly communicate chemical compounds by writing appropriate nomenclature and formulas
2. Accurately perform chemical calculations by applying math skills
3. Collect, analyze, and interpret data in a chemistry laboratory setting and have reasonable conclusions

To obtain the Associate in Science in Chemistry for Transfer Degree, students must complete the following requirements:

1. Complete 60 semester or 90 quarter CSU transferable units.
2. Obtain a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework. While a minimum of 2.0 is required for admission, some transfer institutions and majors may require a higher GPA.
3. Complete a minimum of 18 semester units in a major. All courses in the major must be completed with a grade of C or better or a "P" if the course is taken on a "pass-no-pass" basis (Title 5 § 55063). Even though a "pass-no-pass" is allowed, it is highly recommended that students complete their major courses with a grade.
4. Obtain certification of the Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth (CSU GE-Breadth) pattern.

## Comments: