

# TRANSFER ARTICULATION: CHEMISTRY

The Department of Chemistry (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/chemistry/>) at Sam Houston State University is committed to providing an educational environment conducive to scholarship, intellectual development, and the acquisition of a foundation of knowledge and techniques required of professional chemists. The Department of Chemistry (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/chemistry/>) is approved by the American Chemical Society.

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**Location:** CFS 317A

## Courses Transfer Students Should Take:\*

SHSU Course Number	College/TCCN	SHSU Course Title	Semester Credit Hours
CHEM 1411	CHEM 1411	General Chemistry I	4
CHEM 1412	CHEM 1412	General Chemistry II	4
CHEM 2123	CHEM 2123	Organic Chemistry I Lab	1
CHEM 2125	CHEM 2125	Organic Chemistry II: Lab	1
CHEM 2323	CHEM 2323	Organic Chemistry I: Lecture	3
CHEM 2325	CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 2401		Quantitative Analysis	4
MATH 1420	MATH 2413	Calculus I	4
MATH 1430	MATH 2414	Calculus II	4
PHYS 1101	PHYS 1101	General Physics Laboratory I	1
PHYS 1102	PHYS 1102	General Physics Laboratory II	1
PHYS 1301	PHYS 1301	General Phy-Mechanics & Heat	3
PHYS 1302	PHYS 1302	Gen Phy-Snd,Lght, Elec, & Mag	3

**\*Note:** Other courses may transfer, depending upon the selected degree or program. Meet with your academic advisor to confirm whether coursework will transfer from another institution. For a complete listing of degree-specific requirements, please, review the degree plan within the Undergraduate Catalog (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/>). If a student plans to minor in Biology (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/biological-science/minor-biology/>), they should also take BIOL 1406 and BIOL 1407.

- Bachelor of Science, Major in Chemistry for Professional Chemists (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/chemistry/bs-chemistry-professional-chemists/>)
- Bachelor of Science, Major in Chemistry for Other Technical Careers (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/chemistry/bs-chemistry-technical-careers/>)
- Bachelor of Science, Major in Chemistry/Chemical Engineering (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/chemistry/bs-chemistry-chemical-engineering/>)
- Bachelor of Science, Major in Forensic Chemistry (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/chemistry/bs-forensic-chemistry/>)
- Minor in Chemistry (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/chemistry/minor-chemistry/>)

## Field of Study

Sam Houston State University supports the State of Texas Fields of Study (<https://www.highered.texas.gov/our-work/supporting-our-institutions/program-development/texas-transfer-framework/>).

It is extremely important for the student to complete two years of chemistry (general and organic), a year of calculus, and a year of physics prior to transfer to Sam Houston State University if the student intends to take junior-level chemistry courses upon arrival. If the student is planning on a minor in Biology, the student should also take BIOL 1411 and BIOL 1413.

**Note:** Chemistry majors are not required to complete the 1 hour core requirement where non-majors must select from the choice of 1 hour from ECON, KINE or NGLI.

- A maximum of 66 transfer credit hours (“C” or better excluding kinesiology) may be applied to a degree at SHSU. Students should carefully select courses to complete the associate degree while minimizing the number of hours that might exceed the 66-hour cap for transfer credit
- For more information visit the Department of Chemistry (<https://www.shsu.edu/academics/chemistry/>).

The Core Curriculum (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/>) at Sam Houston State University (to be used by all incoming students as of fall 2014) contains 42 semester credit hours, encompassing nine component areas. Each component area has a minimum credit hour requirement and a selection of specific courses that may be used to satisfy the requirement. The Core Curriculum (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/>) details Sam Houston State University courses and their Texas Common Course Number (TCCN) equivalents for college transfer students which comprise SHSU’s core curriculum.

Many SHSU disciplines including the sciences, business, and education require specific courses from the SHSU core as degree specific graduation requirements. To minimize cost and time to complete degree requirements always select SHSU/transfer core courses specified as degree requirements in your intended major. If you have not decided on a major, select core courses supporting your intended area of academic concentration.

Prior to enrolling in core classes, students are encouraged to review specific degree requirements for their major. Selection of major-specified core courses reduces the total number of hours required for graduation.

If you do not see a Texas Common Course Number (TCCN) mapping a specific core course to your transfer institution, please go to Transfer Course Equivalency Guide (<https://ww2.shsu.edu/regr27wp/>) and select your institution from the drop-down menu. The result will list all currently mapped transfer courses from your institution to SHSU courses.