

TRANSFER ARTICULATION: ENVIRONMENTAL SCIENCE

This program is designed to provide educational opportunities leading to rewarding careers in the field of environmental science. The SHSU Environmental Science program is an interdisciplinary program consisting of coursework from the departments of Agricultural Sciences, Biological Sciences, Chemistry, and Geography and Geology.

The program consists of two tracks – an Environmental Pollution Abatement track and a more general Environmental Sustainability track. The former is geared for students seeking employment in the more technical areas of environmental science, such as those pertaining to air and water pollution, and waste management. Accordingly, it requires more chemistry than the Sustainability track. The latter includes more social science coursework.

Both tracks contain a common set of core courses to serve as a strong foundation for the degree, and both have 11-12 hours of electives to choose from, depending upon the track.

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Location: Lee Drain Building, Room 336

Courses Transfer Students Should Take at the Community College:*

Students wishing to complete Environmental Science degrees at SHSU in ~2 years or less* upon transferring should take as many of the courses below as possible, including fulfilling core curriculum requirements.

Required Environmental Science Courses

| SHSU Course Number | College/TCCN | SHSU Course Title | Semester Credit Hours |
|--------------------|--------------|-----------------------|-----------------------|
| BIOL 1401 | ENVR 1401 | Environmental Science | 4 |
| BIOL 1411 | BIOL 1411 | General Botany | 4 |
| BIOL 1413 | BIOL 1413 | General Zoology | 4 |
| CHEM 1411 | CHEM 1411 | General Chemistry I | 4 |
| GEOG 1401 | GEOG 1447 | Weather and Climate | 4 |

Additional Courses for Sustainability Concentration

| SHSU Course Number | College/TCCN | SHSU Course Title | Semester Credit Hours |
|--------------------|--------------|----------------------------------|-----------------------|
| MATH 1314 | MATH 1314 | Pre Calculus Algebra | 3 |
| MATH 1342 | MATH 1342 | Elementary Statistics | 3 |
| GEOG 1403 | GEOG 1403 | Physical Geology (OR) | 4 |
| GEOG 1405 | GEOG 1405 | Geologic & Environmental Hazards | 4 |

Additional Courses for Pollution Abatement Concentration

| SHSU Course Number | College/TCCN | SHSU Course Title | Semester Credit Hours |
|--------------------|--------------|-----------------------|-----------------------|
| MATH 1342 | MATH 1342 | Elementary Statistics | 3 |
| MATH 1420 | MATH 2413 | Calculus I | 4 |
| CHEM 1412 | CHEM 1412 | General Chemistry II | 4 |
| GEOG 1403 | GEOG 1403 | Physical Geology | 4 |

Additional Courses for Water Resources Concentration

| SHSU Course Number | College/TCCN | SHSU Course Title | Semester Credit Hours |
|--------------------|--------------|----------------------------------|-----------------------|
| MATH 1420 | MATH 2413 | Calculus I | 4 |
| CHEM 1412 | CHEM 1412 | General Chemistry II | 4 |
| GEOG 1403 | GEOG 1403 | Physical Geology (OR) | 4 |
| GEOG 1405 | GEOG 1405 | Geologic & Environmental Hazards | 4 |

*Notes:

Contingent on attending full time (12-18 hrs/semester) and passing all required courses; Maximum 66 credit hours + 4 KINE hours can be transferred to SHSU.

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/>).

- Bachelor of Science, Major in Environmental Science (Pollution Abatement) (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/environmental-geosciences/bs-environmental-science-pollution-abatement/>)
- Bachelor of Science, Major in Environmental Science (Sustainability) (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/environmental-geosciences/bs-environmental-science-sustainability/>)
- Bachelor of Science, Major in Environmental Science (Water Resources) (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/environmental-geosciences/bs-environmental-science-water-resources/>)
- Bachelor of Arts, Major in Geography (Environment, Culture, and Development) (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/environmental-geosciences/ba-geography-environment-culture-and-development/#text>)
- Bachelor of Science, Major in Geography (Environment, Culture, and Development) (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/environmental-geosciences/bs-geography-environment-culture-and-development/>)
- Bachelor of Science, Major in Geography, Geo-spatial Information Sciences (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/environmental-geosciences/bs-geography-geo-spatial-information-sciences/>)
- Bachelor of Science, Major in Geology (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/environmental-geosciences/bs-geology/>)
- Bachelor of Science, Major in Geology (Geoscience) (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/environmental-geosciences/bs-geology-geoscience/>)
- Minor in Environmental Science (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/environmental-geosciences/minor-environmental-science/>)
- Minor in Geography (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/environmental-geosciences/minor-geography/>)
- Minor in Geology (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/environmental-geosciences/minor-geology/>)
- Minor in Geo-Spatial Science (<http://catalog.shsu.edu/archives/2023-2024/undergraduate/colleges-academic-departments/science-and-engineering-technology/environmental-geosciences/minor-geo-spatial-science/>)

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/>).

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.