

BACHELOR OF SCIENCE, MAJOR GEOGRAPHY (ENVIRONMENT, CULTURE, AND DEVELOPMENT)

| Code | Title | Hours |
|---|---|-------|
| Bachelor of Science, Major in Geography (Environment, Culture, and Development) | | |
| Core Curriculum (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/) | | |
| Component Area I (Communication) | | 6 |
| Component Area II (Mathematics) ¹ | | 3 |
| Component Area III (Life and Physical Science) ² | | 8 |
| Component Area IV (Language, Philosophy, and Culture) ³ | | 3 |
| Component Area V (Creative Arts) | | 3 |
| Component Area VI (U.S. History) | | 6 |
| Component Area VII (Political Science/Government) | | 6 |
| Component Area VIII (Social and Behavioral Sciences) ⁴ | | 3 |
| Component Area IX (Component Area Option) | | 4 |
| Degree Specific Requirements | | |
| Life and Physical Science (2 Courses Beyond Core) | | 8 |
| MATH 1342 or STAT 3379 | Elementary Statistics ¹ Statistical Methods in Practice | 3 |
| Major: Foundation | | |
| GEOG 1401 | Weather and Climate (Component Area III) ² | 4 |
| Introduction or Regional Geography-Select one of the following: | | 3 |
| GEOG 1300 | People, Place and the Environment ⁴ | |
| GEOG 2355 | World Regional Geography-Europe, Asia, Australia ³ | |
| GEOG 2356 | Regional Geography-Latin America, Africa, South Asia ³ | |
| GEOG 3359 | Regional Geography:US & Canada (Can only be taken once) | |
| Physical Geography-Select one of the following: | | 3 |
| GEOG 2341 | Physical Geography | |
| GEOL 1403 | Physical Geology ² | |
| GEOL 1405 | Geologic & Environmental Hazards ² | |
| GEOG 3301 | Environmental Geography (Advanced Environmental Core) | 3 |
| GEOG 3350 | Cultural Geography (Advanced Human Core) | 3 |
| GEOG 2464 | Intro to Geographic Information Systems | 4 |
| Major: Required (Concentration) | | |
| Human Geography-Select four of the following: | | 12 |
| GEOG 3310 | Sustainable Development | |
| GEOG 3352 | Tourism Geography | |
| GEOG 3359 | Regional Geography:US & Canada (Can only be taken once) | |
| GEOG 4351 | Economic Geography | |
| GEOG 4356 | Urban Geography | |
| GEOG 4357 | Population Geography | |
| GEOG 4359 | Transportation Geography | |
| GEOG 4360 | Cultural Field Study | |
| Physical/Environmental Geography-Select three of the following: | | 9-10 |
| GEOG 3320 | Sustainability & Environment | |
| GEOG 4330 | Hydrology and Water Resources | |
| GEOG 4331 | Conservation of Natural Resources | |
| GEOG 4333 | Field Studies | |
| GEOG 4432 | Geomorphology | |
| Advanced Geo-Spatial Technique Courses-Select one of the following: | | 3-4 |

| | | |
|--------------------------------------|--|----------------|
| GEOG 3363 | Computer Cartography | |
| GEOG 4361 | Geographic Information Systems for Public Health | |
| GEOG 4365 | Applied Geographic Info Systems | |
| GEOG 4468 | Remote Sensing | |
| Major: Prescribed Electives | | |
| Advanced GEOG or GEOL Electives | | 6 |
| GEOG Elective ⁵ | | 3 |
| Minor: Required^{6,7} | | |
| Minor | | 18 |
| Total Hours | | 120-122 |

- ¹ MATH 1342 satisfies the Core Curriculum requirement of Component Area II (Mathematics).
- ² GEOG 1401, GEOL 1403, or GEOL 1405 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
- ³ GEOG 2355, GEOG 2356, WOLC 2311, or WOLC 2312 satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
- ⁴ GEOG 1300 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- ⁵ Additional GEOG electives may be necessary depending on student course selection with Core Curriculum overlap.
- ⁶ 12 semester credit hours from minor courses should be used to meet 42 advanced hours requirement.
- ⁷ All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

First Year

| Fall | Hours | Spring | Hours |
|--|-----------|--|-----------|
| Component Area II (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaii) ¹ | | 3 Component Area III (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii) | 4 |
| Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix) | | 1 ENGL 1302 ² | 3 |
| ENGL 1301 ² | | 3 HIST 1302 ⁴ | 3 |
| GEOG 1401 ³ | | 4 Introduction or Regional Geography ^{5, 6, 7} | 3 |
| HIST 1301 ⁴ | | 3 POLS 2305 ⁸ | 3 |
| | 14 | | 16 |

Second Year

| Fall | Hours | Spring | Hours |
|--|-----------|---|-----------|
| Component Area III (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii) | | 4 Component Area VIII (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii) | 3 |
| Component Area V (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav) | | 3 Advanced GEOG or GEOL | 3 |
| GEOG 2341, GEOL 1403, or GEOL 1405 ³ | | 3 GEOG 3301 | 3 |
| MATH 1342 or STAT 3379 ¹ | | 3 GEOG 3350 | 3 |
| POLS 2306 ⁸ | | 3 Minor Course ⁹ | 3 |
| | 16 | | 15 |

Third Year

| Fall | Hours | Spring | Hours |
|--|-------|---|--------------|
| Advanced GEOG or GEOL | | 3 Component Area IV (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv) | 3 |
| GEOG 2464 | | 4 Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix) | 3 |
| Human Geography ¹⁰ | | 3 Advanced Geo_Spatial Techniques ¹² | 3-4 |
| Minor Course ⁹ | | 3 Advanced Minor Course ⁹ | 3 |
| Physical and Environmental Geography ¹¹ | | 3-4 Human Geography ¹⁰ | 3 |
| | | 16-17 | 15-16 |

Fourth Year

| Fall | Hours | Spring | Hours |
|--|-------|--|-----------|
| Advanced Minor ⁹ | | 6 Advanced Minor ⁹ | 3 |
| Human Geography ¹⁰ | | 3 GEOG Elective ¹³ | 3 |
| Component Area III (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii) | | 4 Human Geography ¹⁰ | 3 |
| Physical and Environmental Geography ¹¹ | | 3 Physical and Environmental Geography ¹¹ | 3 |
| | | 16 | 12 |

Total Hours: 120-122

- ¹ MATH 1342 satisfies the Core Curriculum requirement of Component Area II (Mathematics).
- ² Satisfies Core Curriculum requirement for Component Area I (Communication).
- ³ GEOG 1401 (<http://catalog.shsu.edu/archives/2022-2023/search/?P=GEOG%201401>), GEOL 1403 (<http://catalog.shsu.edu/archives/2022-2023/search/?P=GEOL%201403>), or GEOL 1405 (<http://catalog.shsu.edu/archives/2022-2023/search/?P=GEOL%201405>) satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
- ⁴ Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- ⁵ Select one from the Introduction or Regional Geography Course list below.
- ⁶ GEOG 1300 (<http://catalog.shsu.edu/archives/2022-2023/search/?P=GEOG%201300>) satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- ⁷ GEOG 2355 (<http://catalog.shsu.edu/archives/2022-2023/search/?P=GEOG%202355>), GEOG 2356 (<http://catalog.shsu.edu/archives/2022-2023/search/?P=GEOG%202356>), WOLC 2311 (<http://catalog.shsu.edu/archives/2022-2023/search/?P=WOLC%202311>), or WOLC 2312 (<http://catalog.shsu.edu/archives/2022-2023/search/?P=WOLC%202312>) satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
- ⁸ Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- ⁹ 12 semester credit hours of the minor should be used to meet the 42 advanced hours requirement.
- ¹⁰ Select one from the Human Geography list below.
- ¹¹ Select one from the Physical/Environmental Course list below.
- ¹² Select one from the Advance Geo-Spatial Technique Course list below.
- ¹³ Additional GEOG electives may be necessary depending on student course selection with Core Curriculum overlap.

| Code | Title | Hours |
|--|--------------------------------|-------|
| Introduction of Regional Geography Courses ⁵ | | |
| GEOG 1300 | People, Place and the Envrnmt | 3 |
| GEOG 2355 | World Reg Geo-Eur Asia Aust | 3 |
| GEOG 2356 | Reg Geo-Lat Am Africa So Asia | 3 |
| GEOG 3359 | Regional Geography:US & Canada | 3 |
| Code Title Hours | | |
| Human Geography Courses ¹⁰ | | |
| GEOG 3310 | Sustainable Development | 3 |

| | | |
|-----------|--------------------------------|---|
| GEOG 3352 | Tourism Geography | 3 |
| GEOG 3359 | Regional Geography:US & Canada | 3 |
| GEOG 4351 | Economic Geography | 3 |
| GEOG 4356 | Urban Geography | 3 |
| GEOG 4357 | Population Geography | 3 |
| GEOG 4359 | Transportation Geography | 3 |
| GEOG 4360 | Cultural Field Study | 3 |

| Code | Title | Hours |
|---|-------------------------------|-------|
| Physical/Environment Geography Courses ¹¹ | | |
| GEOG 3320 | Sustainability & Environment | 3 |
| GEOG 4330 | Hydrology and Water Resources | 3 |
| GEOG 4331 | Conservation of Natural Res | 3 |
| GEOG 4432 | Geomorphology | 4 |
| GEOG 4333 | Field Studies | 3 |

| Code | Title | Hours |
|---|--|-------|
| Advanced Geo-Spatial Technique Courses ¹² | | |
| GEOG 3363 | Computer Cartography | 3 |
| GEOG 4361 | Geographic Information Systems for Public Health | 3 |
| GEOG 4365 | Applied Geographic Info Systms | 3 |
| GEOG 4468 | Remote Sensing | 4 |

Notes

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The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Environmental Science (Pollution Abatement) is designed to provide graduates with the following marketable skills:

- Use the scientific method to address environmental and human problems.
- Think critically and problem solve.
- Use statistics to evaluate hypotheses.
- Communicate and engage with technical writing
- Gather, manage, analyze and interpret spatially referenced data.
- Work with maps, spatially referenced databases, and range of geospatial technologies.
- Apply knowledge and awareness of ecosystems and cultural environments in order to address a range of environmental and social issues,