## **BACHELOR OF SCIENCE, MAJOR IN ENVIRONMENTAL SCIENCE** (SUSTAINABILITY)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-environmental-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

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| Code   | Title  | Hours |  |  |  |
|--|--|-------|--|--|--|
| Bachelor of Science, Major in Enviro                 | nmental Science (Sustainability)   |       |  |  |  |
| Core Curriculum (http://catalog.shsu<br>curriculum/) | I.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core- |       |  |  |  |
| Component Area I (Communication)                     |  | 6     |  |  |  |
| Component Area II (Mathematics) <sup>1</sup>         |  | 3     |  |  |  |
| Component Area III (Life and Physica                 | al Science) <sup>2</sup>   | 8     |  |  |  |
| Component Area IV (Language, Philo                   | sophy, and Culture) <sup>3</sup>   | 3     |  |  |  |
| Component Area V (Creative Arts)                     |  |       |  |  |  |
| Component Area VI (U.S. History)                     |  | 6     |  |  |  |
| Component Area VII (Political Scienc                 | e/Government)  | 6     |  |  |  |
| Component Area VIII (Social and Beh                  | navioral Sciences) <sup>4</sup>  | 3     |  |  |  |
| Component Area IX (Component Are                     | a Option) <sup>5</sup>   | 4     |  |  |  |
| Degree Specific Requirements                         |  |       |  |  |  |
| BIOL 1406  | General Biology I  | 4     |  |  |  |
| BIOL 1407  | General Biology II   | 4     |  |  |  |
| CHEM 1411  | General Chemistry I  | 4     |  |  |  |
| MATH 1314  | Pre Calculus Algebra <sup>1</sup>  | 3     |  |  |  |
| or MATH 1410   | Elementary Functions   |       |  |  |  |
| or MATH 1420   | Calculus I   |       |  |  |  |
| MATH 1342  | Elementary Statistics  | 3     |  |  |  |
| or MATH 3379   | Statistical Methods in Practice  |       |  |  |  |
| or STAT 3379   | Statistical Methods in Practice  |       |  |  |  |
| Major: Foundation                                    |  |       |  |  |  |
| BIOL 1401  | Environmental Science <sup>2</sup>   | 4     |  |  |  |
| BIOL/GEOG 3320                                       | Sustainability & Environment   | 3     |  |  |  |
| BIOL 3409  | General Ecology  | 4     |  |  |  |
| BIOL 4374  | Biostatistics  | 3     |  |  |  |
| or GEOG 4374   | Geostatistics  |       |  |  |  |
| ECON 3352  | Energy and Environmental Economics <sup>4</sup>  | 3     |  |  |  |
| or GEOG 4351   | Economic Geography   |       |  |  |  |
| GEOG 1401  | Weather and Climate <sup>2</sup>   | 4     |  |  |  |
| GEOG 2464  | Introduction to Geographic Information Systems (GIS)   | 4     |  |  |  |
| GEOG 3310  | Sustainable Development  | 3     |  |  |  |
| GEOG 4330  | Hydrology and Water Resources  | 3-4   |  |  |  |
| or GEOG 4432   | Geomorphology  |       |  |  |  |
| GEOG 4331  | Conservation of Natural Resources  | 3     |  |  |  |
| GEOG 4361  | Geographic Information Systems for Public Health   | 3-4   |  |  |  |
| or GEOG 4365   | Applied Geographic Information Systems (GIS)   |       |  |  |  |
| or GEOG 4468   | Remote Sensing   |       |  |  |  |
| GEOL 1403  | Physical Geology   | 4     |  |  |  |
| or GEOL 1405   | Geologic & Environmental Hazards   |       |  |  |  |
| GEOL 3326  | Environmental Geology  | 3     |  |  |  |
| PLSC 3440  | Soil Science   | 4     |  |  |  |
| POLS 3395  | Environmental Policy   | 3     |  |  |  |
| SOCI 4337  | Environment And Society  | 3     |  |  |  |

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|-------------------------------------|--|----|
| or COMS 3393                        | Environmental Communication                      |    |
| or SOCI 4334                        | Sociology Of Disaster                            |    |
| Major: Prescribed Advanced Electiv  |  | 17 |
| Select 17 hours from the following  |  | 17 |
| AGET 3383                           | Soil & Water Conservation Engineering            |    |
| BIOL 3461                           | Wildlife Biology                                 |    |
| BIOL 4330                           | Aquatic Biology                                  |    |
| COMS 3393                           | Environmental Communication                      |    |
| ENGL 3330                           | Introduction to Technical Writing                |    |
| GEOG 3301                           | Environmental Geography                          |    |
| GEOG 3340                           | Meteorology                                      |    |
| GEOG 3342                           | Climatology                                      |    |
| GEOG 3350                           | Cultural Geography                               |    |
| GEOG 4100                           | Earth and Environment Seminar                    |    |
| GEOG 4330                           | Hydrology and Water Resources                    |    |
| GEOG 4333                           | Field Studies                                    |    |
| GEOG 4356                           | Urban Geography                                  |    |
| GEOG 4357                           | Population Geography                             |    |
| GEOG 4360                           | Cultural Field Study                             |    |
| GEOG 4361                           | Geographic Information Systems for Public Health |    |
| GEOG 4365                           | Applied Geographic Information Systems (GIS)     |    |
| GEOG 4399                           | Environmental and Geoscience Internship          |    |
| GEOG 4432                           | Geomorphology                                    |    |
| GEOG 4468                           | Remote Sensing                                   |    |
| GEOL 3330                           | Oceanography                                     |    |
| GEOL 4100                           | Earth and Environment Seminar                    |    |
| GEOL 4312                           | Economic Geology                                 |    |
| GEOL 4399                           | Environmental and Geoscience Internship          |    |
| GEOL 4426                           | Hydrogeology                                     |    |
| HLTH 4390                           | Environmental Health                             |    |
| PHIL 4334                           | Environmental Ethics                             |    |
| PLSC 4330                           | Soil Fertility Management and Fertilizers        |    |
| PLSC 4370                           | Forage Crops and Pasture Management              |    |
| PLSC 4397                           | Integrated Pest Management                       |    |
| SOCI 4334                           | Sociology Of Disaster                            |    |
| SOCI 4337                           | Environment And Society                          |    |
| WMGT 2301                           | Principles of Wildlife Management                |    |
| WMGT 3382                           | Habitat & Pond Management                        |    |
| Minor: Not Required <sup>6, 7</sup> |  |    |

## **Total Hours**

120-122

<sup>1</sup> Satisfies the Core Curriculum requirement for Component Area II (Mathematics) and serves as a prerequisite for CHEM 1411 and BIOL 4374.

- Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
- <sup>3</sup> SOCI 2319 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and serves as a prerequisite for SOCI 4337 and SOCI 4339.
- <sup>4</sup> ECON 2301 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and serves as a prerequisite for ECON 3352.
- <sup>5</sup> GEOG 2355 or GEOG 2356 is recommended plus one semester credit hour.
- <sup>6</sup> A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours. All minors can be paired with this degree program.
- <sup>7</sup> All minors can be paired with this degree program.

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.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-environmental-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

| First Year   |       |  |       |       |
|--|-------|--|-------|-------|
| Fall   | Hours | Spring   | Hours |       |
| BIOL 1401 <sup>1</sup>   |       | 4 Component Area IX (http://catalog.shsu.edu/<br>undergraduate/academic-policies-procedures/degree-<br>requirements-academic-guidelines/core-curriculum/<br>#componentareaix)              |       | 1     |
| ENGL 1301 <sup>2</sup>   |       | 3 CHEM 1411  |       | 4     |
| GEOG 1401 <sup>1</sup>   |       | 4 ENGL 1302 <sup>2</sup>   |       | 3     |
| HSTY 1301 <sup>3</sup>   |       | 3 GEOL 1403 or 1405  |       | 4     |
| MATH 1314 <sup>4</sup>   |       | 3 HSTY 1302 <sup>3</sup>   |       | 3     |
|  |       | 17   |       | 15    |
| Second Year  |       |  |       |       |
| Fall   | Hours | Spring   | Hours |       |
| Component Area V (http://catalog.shsu.edu/<br>undergraduate/academic-policies-procedures/degree-<br>requirements-academic-guidelines/core-curriculum/<br>#componentareav)                    |       | 3 Component Area IV (http://catalog.shsu.edu/<br>undergraduate/academic-policies-procedures/degree-<br>requirements-academic-guidelines/core-curriculum/<br>#componentareaiv) <sup>7</sup> |       | 3     |
| Component Area VIII (http://catalog.shsu.edu/<br>undergraduate/academic-policies-procedures/degree-<br>requirements-academic-guidelines/core-curriculum/<br>#componentareaviii) <sup>5</sup> |       | 3 Component Area IX (http://catalog.shsu.edu/<br>undergraduate/academic-policies-procedures/degree-<br>requirements-academic-guidelines/core-curriculum/<br>#componentareaix) <sup>8</sup> |       | 3     |
| BIOL 1406  |       | 4 BIOL 1407  |       | 4     |
| MATH 1342, 3379, or STAT 3379  |       | 3 GEOG 2464  |       | 4     |
| POLS 2305 <sup>6</sup>   |       | 3 POLS 2306 <sup>6</sup>   |       | 3     |
|  |       | 16   |       | 17    |
| Third Year   |       |  |       |       |
| Fall   | Hours | Spring   | Hours |       |
| BIOL 3320 or GEOG 3320   |       | 3 ECON 3352 or GEOG 4351   |       | 3     |
| BIOL 3409  |       | 4 GEOG 4330 or 4432  |       | 3-4   |
| GEOG 4331  |       | 3 GEOL 3326  |       | 3     |
| GEOG 4361, 4365, or 4468   |       | 3-4 POLS 3395  |       | 3     |
|  |       | Prescribed Electives <sup>9</sup>  |       | 3     |
|  |       | 13-14  |       | 15-16 |
| Fourth Year  |       |  |       |       |
| Fall   | Hours | Spring   | Hours |       |
| BIOL 4374 or GEOG 4374   |       | 3 Prescribed Electives <sup>9</sup>  |       | 10    |
| GEOG 3310  |       | 3 SOCI 4337, COMS 3393, or SOCI 4334   |       | 3     |
| PLSC 3440  |       | 4  |       |       |
| Prescribed Electives <sup>9</sup>  |       | 4  |       |       |
|  |       | 14   |       | 13    |

## Total Hours: 120-122

<sup>1</sup> Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).

<sup>2</sup> Satisfies the Core Curriculum requirement for Component Area I (Communication).

<sup>3</sup> Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).

<sup>4</sup> Satisfies the Core Curriculum requirement for Component Area II (Mathematics) and serves as a prerequisite for CHEM 1411 and BIOL 4374.

- <sup>5</sup> ECON 2301 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and serves as a prerequisite for ECON 3352.
- <sup>6</sup> Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
- <sup>7</sup> SOCI 2319 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and serves as a prerequisite for SOCI 4337 and SOCI 4339.
- <sup>8</sup> GEOG 2355 or GEOG 2356 is recommended plus one semester credit hour.
- <sup>9</sup> See Prescribed Advanced Electives (Environmental Science) course list below.

| Predict Advanced lectives:17Select 17 hours front fool owned electives:ACET 3383Soil & Water Conservation EngineeringBIOL 3461Wildlife BiologyBIOL 3461Aquatic BiologyBIOL 3300Aquatic BiologySoil & Water Conservation EngineeringBIOL 3301Environmental CommunicationENC 3330Environmental GeographyGEOG 3340MeteorologyGEOG 3342Cilnatology and Water ResourcesGEOG 4330Herology and Water ResourcesGEOG 4330Field StudiesGEOG 4330Field StudiesGEOG 4357Opulation GeographyGEOG 4366Urban GeographyGEOG 4365Opulation GeographyGEOG 4365Opulation GeographyGEOG 4365Opulation GeographyGEOG 4366Applied Geographic Information Systems for Public HealthGEOG 4367OeanographyGEOG 4369Environment All Geoscience InternshipGEOG 4369GeoromphologyGEOG 4360Oeanography </th <th>Code</th> <th>Title</th> <th>Hours</th>   | Code   | Title  | Hours |  |  |  |  |
|---|--|--|-------|--|--|--|--|
| AGET 3383Soil & Water Conservation Engineering3BIOL 3430Muidlife Biology4BIOL 3430Aquatic Biology3COMS 3393Environmental Communication3ENGL 330Introduction to Technical Writing3GEOG 3301Environmental Geography3GEOG 3342Climatology3GEOG 3342Climatology3GEOG 4330Meteorology3GEOG 4330Cultural Geography3GEOG 4330Hydrology and Water Resources3GEOG 4333Field Studies3GEOG 4335Urban Geography3GEOG 4356Urban Geography3GEOG 4356Urban Geography3GEOG 4361Geographic Information Systems for Public Health3GEOG 4365Applied Geographic Information Systems for Sublic Health3GEOG 4365Applied Geography4GEOG 4366Remote Sensing4GEOG 4369Environment I and Geoscience Internship3GEOL 4399Environment Seminar1GEOL 4399Environment I and Geoscience Internship3GEOL 4399Environment I and Geoscience Internship3< | Prescribed Advanced Electives <sup>9</sup>             |  | 17    |  |  |  |  |
| BIOL 3461Wildlife Biology4BIOL 330Aquatic Biology3COMS 3393Environmental Communication3ENGL 330Introduction to Technical Writing3GEOG 3301Environmental Geography3GEOG 3340Meteorology3GEOG 3342Climatology3GEOG 3350Cultural Geography3GEOG 4360Cultural Geography3GEOG 4370Field Studies3GEOG 4375Population Geography3GEOG 4365Urban Geography3GEOG 4365Cultural Field Study3GEOG 4365Applied Geography3GEOG 4365Applied Geography3GEOG 4365Applied Geographic Information Systems for Public Health3GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4432Geomorphology4GEOG 4432Geomorphology4GEOL 4432Geomorphology4GEOL 4432Geonorphology4GEOL 4432Environment al and Geoscience Internship3GEOL 4434Environment Seminar1GEOL 4432Geonorphology4GEOL 4333Environment al and Geoscience Internship3GEOL 4334Environment Al and Geoscience Internship3GEOL 4334Environment al Health3SOC 4337Fivoronment al Health3SOC 4337Fivoronment al Geoscience Internship3SOC 4337Integrated Pest Management<   | Select 17 hours from the following advanced electives: |  |       |  |  |  |  |
| BIOL 4330Aquatic Biology3COMS 3393Environmental Communication3ENGL 3330Introduction to technical Writing3EOG 3301Environmental Geography3GEOG 3342Climatology3GEOG 3342Clintatology3GEOG 4334Cultural Geography3GEOG 4330Hydrology and Water Resources3GEOG 4333Field Studies3GEOG 4333Field Studies3GEOG 4333Field Studies3GEOG 4360Cultural Field Study3GEOG 4361Geography3GEOG 4362Cultural Field Study3GEOG 4363Cultural Field Study3GEOG 4364Geographic Information Systems for Public Health3GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4364Geomorphology4GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4364Remote Sensing4GEOL 4120Earth and Environment Seminar1GEOL 4130Geomorphology4GEOL 4131Economic Geology3GEOL 4132Economic Geology3GEOL 4134Environmental Health3PILSC 4370Forizonmental Health3PILSC 4370Forage Crops and Pasture Management3PLSC 4397Integrated Pest Management3PLSC 4334Sociology Of Disaster3SOCI 4334Environment Al Society3  | AGET 3383  | Soil & Water Conservation Engineering            | 3     |  |  |  |  |
| COMS 3393Environmental Communication3ENGL 3330Introduction to Technical Writing3GEOG 3301Environmental Geography3GEOG 3340Meteorology3GEOG 3342Climatology3GEOG 3350Cultural Geography3GEOG 4330Hydrology and Water Resources3GEOG 4333Field Studies3GEOG 4333Field Studies3GEOG 4336Urban Geography3GEOG 4365Urban Geography3GEOG 4366Cultural Field Study3GEOG 4367Population Geography3GEOG 4361Geographic Information Systems for Public Health3GEOG 4322Geomorphology4GEOG 4432Geomorphology4GEOL 4412Geomorphology4GEOL 4412Geomorphology3GEOL 4412Economic Geology3GEOL 4410Earth and Environment Seminar1GEOL 4312Economic Geology3GEOL 4324Environmental and Geoscience Internship3GEOL 4324Geomorphology4GEOL 4334Environmental and Geoscience Internship3GEOL 4330Ocenorgraphy3GEOL 4330Sol Fertility Management and Fertilizers3GEOL 4334Environmental Health3PILS 4330Sol Fertility Management and Fertilizers3PILS 4337Integrated Pest Management3SOCI 4334Sociology Of Disaster3 <td>BIOL 3461</td> <td>Wildlife Biology</td> <td>4</td>                     | BIOL 3461  | Wildlife Biology                                 | 4     |  |  |  |  |
| ENGL 330Introduction to Technical Writing3GEOG 3301Environmental Geography3GEOG 3340Meteorology3GEOG 3342Climatology3GEOG 3350Cultural Geography3GEOG 4300Earth and Environment Seminar1GEOG 4330Field Studies3GEOG 4330Field Studies3GEOG 4333Field Studies3GEOG 4356Urban Geography3GEOG 4361Geographic Information Systems for Public Health3GEOG 4362Applied Geographic Information Systems for Public Health3GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4364Remote Sensing4GEOG 4370Oceanography4GEOG 4380Oceanography3GEOG 4381Geologyphic Information Systems (GIS)3GEOG 4382Geomraphology4GEOG 4383Oceanography3GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4312Economic Geology4HLT 4390Environmental Hedleth3GEOL 4320Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3PLSC 4371Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4334Sociology Of Disaster3SOCI 4334Environment 40 Society3SOCI 4334Environment And So   | BIOL 4330  | Aquatic Biology                                  | 3     |  |  |  |  |
| GEOG 3301Environmental Geography3GEOG 3340Meteorology3GEOG 3342Climatology3GEOG 3350Cultural Geography3GEOG 4100Earth and Environment Seminar1GEOG 4330Hydrology and Water Resources3GEOG 4333Field Studies3GEOG 4335Urban Geography3GEOG 4356Urban Geography3GEOG 4357Population Geography3GEOG 4361Geographic Information Systems for Public Health3GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4436Geographic Information Systems (GIS)3GEOG 4432Geomorphology4GEOG 4432Geomorphology4GEOL 4330Oceanography3GEOL 4432Environmental and Geoscience Internship3GEOL 4432Economic Geology3GEOL 4330Oceanography3GEOL 4320Environment Seminar1GEOL 4330Deconomic Geology3GEOL 4320Environment Seminar3GEOL 4321Economic Geology4HITH 4390Environmental Health3PILS C4330Soil Fertility Management and Fertilizers3PILS C4330Soil Fertility Management3SOCI 4334Sociology Of Disaster3SOCI 4334Environment Ad Society3WMGT 2301Principles of Wildlife Management3  | COMS 3393  | Environmental Communication                      | 3     |  |  |  |  |
| GE0G 3340Meteorology3GE0G 3342Climatology3GE0G 3342Climatology3GE0G 3350Cultural Geography3GE0G 4100Earth and Environment Seminar1GE0G 4330Hydrology and Water Resources3GE0G 4333Field Studies3GE0G 4335Urban Geography3GE0G 4356Urban Geography3GE0G 4361Geographic Information Systems for Public Health3GE0G 4362Applied Geographic Information Systems (GIS)3GE0G 4363Geomorphology4GE0G 4482Geomorphology4GE0G 4486Remote Sensing3GE0L 4312Conomic Geology3GE0L 4312Economic Geology3GE0L 4399Environmental and Geoscience Internship3GE0L 4312Conomic Geology4GE0L 4312Economic Geology4HLTH 4390Environmental Heith3GE0L 4320Goil Fertility Management and Fertilizers3PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3WMGT 2301Principles of Wildlife Management3WMGT 2301Principles of Wildlife Management3WMGT 2301Principles of Wildlife Management3WMGT 2301Principles of Wildlife Management3                                     | ENGL 3330  | Introduction to Technical Writing                | 3     |  |  |  |  |
| GEOG 3342Climatology3GEOG 3350Cultural Geography3GEOG 4100Earth and Environment Seminar1GEOG 4330Hydrology and Water Resources3GEOG 4333Field Studies3GEOG 4356Urban Geography3GEOG 4357Population Geography3GEOG 4360Cultural Field Study3GEOG 4361Geographic Information Systems for Public Health3GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4432Geomorphology4GEOG 4432Geomorphology4GEOL 4330Oceanography3GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4324Environment Seminar1GEOL 4335Environmental and Geoscience Internship3GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4324Environmental Health3HIL 4330Environmental Health3PILS 4330Soil Fertility Management and Fertilizers3PLS 4330Soil Fertility Management3PLS 4331Environment And Seciety3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3SOCI 4337Environment And Society3 <td>GEOG 3301</td> <td>Environmental Geography</td> <td>3</td>        | GEOG 3301  | Environmental Geography                          | 3     |  |  |  |  |
| GEOG 3350Cultural Geography3GEOG 4100Earth and Environment Seminar1GEOG 4300Hydrology and Water Resources3GEOG 4333Field Studies3GEOG 4365Urban Geography3GEOG 4356Cultural Field Study3GEOG 4361Geographin Geography3GEOG 4365Applied Geographin (Information Systems for Public Health)3GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4436Geomorphology4GEOG 4432Geomorphology4GEOC 4468Remote Sensing3GEOL 4300Oceanography3GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4326Hydrogelogy4HLITH 4390Environmental and Geoscience Internship3GEOL 4326Hydrogelogy4HLITH 4390Environmental end Geoscience Internship3GEOL 4326Hydrogelogy4HLITH 4390Environmental Health3PHIL 4334Environmental Health3PHIL 4334Soil Fertility Management and Fertilizers3PLSC 4397Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3SOCI 4337Environment And Society3SOCI 4337Environment And Society3SOCI 4334Soci   | GEOG 3340  | Meteorology                                      | 3     |  |  |  |  |
| GEOG 4100Earth and Environment Seminar1GEOG 4330Hydrology and Water Resources3GEOG 4333Field Studies3GEOG 4336Urban Geography3GEOG 4357Population Geography3GEOG 4360Cultural Field Study3GEOG 4361Geographic Information Systems for Public Health3GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4369Environmental and Geoscience Internship3GEOG 4432Geomorphology4GEOG 44330Oceanography3GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4312Economic Geology4HLTH 4390Environmental Health3PHIL 4334Environmental Ethics3PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4397Integrated Pest Management3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3WMGT 2301Principles of Wildlife Management3   | GEOG 3342  | Climatology                                      | 3     |  |  |  |  |
| GEOG 4330Hydrology and Water Resources3GEOG 4333Field Studies3GEOG 4334Field Studies3GEOG 4356Urban Geography3GEOG 4360Cultural Field Study3GEOG 4361Geographic Information Systems for Public Health3GEOG 4355Applied Geographic Information Systems (GIS)3GEOG 4432Geomorphology4GEOG 4432Geomorphology4GEOL 4432Geomorphology4GEOL 4432Geomorphology3GEOL 4430Oceanography3GEOL 4431Economic Geology3GEOL 4432Economic Geology4HLTH 4390Environmental and Geoscience Internship3GEOL 4426Hydrogeology4HLTH 4390Environmental end Geoscience Internship3PILs C4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3PLSC 4397Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3WMGT 2301Principles of Wildlife Management3SOCI 4331Sociology Of Disaster3SOCI 4331Principles of Wildlife Management3SOCI 4331Principles of Wildlife Management3SOCI 4331Principles of Wildlife Management3SOCI 4331Principles of Wildlife                        | GEOG 3350  | Cultural Geography                               | 3     |  |  |  |  |
| GEOG 4333Field Studies3GEOG 4336Urban Geography3GEOG 4356Urban Geography3GEOG 4357Population Geography3GEOG 4360Cultural Field Study3GEOG 4361Geographic Information Systems for Public Health3GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4432Geomorphology4GEOG 4432Geomorphology4GEOG 4468Remote Sensing3GEOL 3330Oceanography3GEOL 4100Earth and Environment Seminar1GEOL 4399Environmental and Geoscience Internship3GEOL 4390Environmental and Geoscience Internship3GEOL 4390Environmental and Geoscience Internship3GEOL 4390Environmental Health3PHL 4334Environmental Health3PHL 4334Environmental Ethics3PLSC 4370Forage Crops and Pasture Management3PLSC 4370Forage Crops and Pasture Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3  | GEOG 4100  | Earth and Environment Seminar                    | 1     |  |  |  |  |
| GEOG 4356Urban Geography3GEOG 4357Population Geography3GEOG 4360Cultural Field Study3GEOG 4361Geographic Information Systems for Public Health3GEOG 4355Applied Geographic Information Systems (GIS)3GEOG 4359Environmental and Geoscience Internship3GEOG 4432Geomorphology4GEOG 4432Geomorphology4GEOG 4433Oceanography3GEOL 4426Remote Sensing3GEOL 4312Economic Geology3GEOL 4426Hydrogeology4HLTH 4390Environmental Health3PHIL 4334Environmental Health3PLSC 4370Forage Crops and Pasture Management3PLSC 4397Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3WIGT 2301Principles of Wildlife Management3   | GEOG 4330  | Hydrology and Water Resources                    | 3     |  |  |  |  |
| GEOG 4357Population Geography3GEOG 4360Cultural Field Study3GEOG 4361Geographic Information Systems for Public Health3GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4399Environmental and Geoscience Internship3GEOG 4432Geomorphology4GEOG 4432Geomorphology4GEOG 4432Geomorphology4GEOL 4426Remote Sensing3GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4399Environmental and Geoscience Internship3GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4314Environmental Health3PHIL 4334Environmental Health3PHIL 4334Environmental Health3PLSC 4370Forage Crops and Pasture Management3PLSC 4371Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3   | GEOG 4333  | Field Studies                                    | 3     |  |  |  |  |
| GEOG 4360Cultural Field Study3GEOG 4361Geographic Information Systems for Public Health3GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4399Environmental and Geoscience Internship3GEOG 4432Geomorphology4GEOG 4468Remote Sensing4GEOL 3330Oceanography3GEOL 4100Earth and Environment Seminar1GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4314Environmental and Geoscience Internship3GEOL 4329Environmental Health3PHIL 4334Environmental Health3PHIL 4334Environmental Ethics3PLSC 4370Forage Crops and Pasture Management3PLSC 4370Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3  | GEOG 4356  | Urban Geography                                  | 3     |  |  |  |  |
| GEOG 4361Geographic Information Systems for Public Health3GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4399Environmental and Geoscience Internship3GEOG 4432Geomorphology4GEOG 4468Remote Sensing4GEOL 3330Oceanography3GEOL 4100Earth and Environment Seminar1GEOL 4312Economic Geology3GEOL 4399Environmental and Geoscience Internship3GEOL 4399Environmental and Geoscience Internship3GEOL 4390Environmental and Geoscience Internship3GEOL 4426Hydrogeology4HLTH 4390Environmental Health3PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3PLSC 4397Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3   | GEOG 4357  | Population Geography                             | 3     |  |  |  |  |
| GEOG 4365Applied Geographic Information Systems (GIS)3GEOG 4399Environmental and Geoscience Internship3GEOG 4432Geomorphology4GEOG 4468Remote Sensing4GEOL 3330Oceanography3GEOL 4100Earth and Environment Seminar1GEOL 4312Economic Geology3GEOL 4399Environmental and Geoscience Internship3GEOL 4399Environmental and Geoscience Internship3GEOL 4426Hydrogeology4HLTH 4390Environmental Health3PHIL 4334Environmental Ethics3PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3  | GEOG 4360  | Cultural Field Study                             | 3     |  |  |  |  |
| GEOG 4399Environmental and Geoscience Internship3GEOG 4432Geomorphology4GEOG 4468Remote Sensing4GEOL 3330Oceanography3GEOL 4100Earth and Environment Seminar1GEOL 4312Economic Geology3GEOL 4399Environmental and Geoscience Internship3GEOL 4426Hydrogeology4HLTH 4390Environmental Health3PHIL 4334Environmental Ethics3PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3WMGT 2301Principles of Wildlife Management3  | GEOG 4361  | Geographic Information Systems for Public Health | 3     |  |  |  |  |
| GEOG 4432Geomorphology4GEOG 4468Remote Sensing4GEOL 3330Oceanography3GEOL 4100Earth and Environment Seminar1GEOL 4312Economic Geology3GEOL 4399Environmental and Geoscience Internship3GEOL 4426Hydrogeology4HLTH 4390Environmental Health3PHIL 4334Environmental Ethics3PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3  | GEOG 4365  | Applied Geographic Information Systems (GIS)     | 3     |  |  |  |  |
| GEOG 4468Remote Sensing4GEOL 3330Oceanography3GEOL 4100Earth and Environment Seminar1GEOL 4312Economic Geology3GEOL 4312Economic Geology3GEOL 4399Environmental and Geoscience Internship3GEOL 4426Hydrogeology4HLTH 4390Environmental Health3PHIL 4334Environmental Ethics3PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3PLSC 4397Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3   | GEOG 4399  | Environmental and Geoscience Internship          | 3     |  |  |  |  |
| GEOL 3330Oceanography3GEOL 4100Earth and Environment Seminar1GEOL 4312Economic Geology3GEOL 4399Environmental and Geoscience Internship3GEOL 4426Hydrogeology4HLTH 4390Environmental Health3PHIL 4334Environmental Ethics3PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3   | GEOG 4432  | Geomorphology                                    | 4     |  |  |  |  |
| GEOL 4100Earth and Environment Seminar1GEOL 4312Economic Geology3GEOL 4399Environmental and Geoscience Internship3GEOL 4426Hydrogeology4HLTH 4390Environmental Health3PHIL 4334Environmental Ethics3PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3PLSC 4397Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3   | GEOG 4468  | Remote Sensing                                   | 4     |  |  |  |  |
| GEOL 4312Economic Geology3GEOL 4399Environmental and Geoscience Internship3GEOL 4426Hydrogeology4HLTH 4390Environmental Health3PHIL 4334Environmental Ethics3PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3PLSC 4397Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3  | GEOL 3330  | Oceanography                                     | 3     |  |  |  |  |
| GEOL 4399Environmental and Geoscience Internship3GEOL 4426Hydrogeology4HLTH 4390Environmental Health3PHIL 4334Environmental Ethics3PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3PLSC 4397Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3  | GEOL 4100  | Earth and Environment Seminar                    | 1     |  |  |  |  |
| GEOL 4426Hydrogeology4HLTH 4390Environmental Health3PHIL 4334Environmental Ethics3PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3PLSC 4397Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3   | GEOL 4312  | Economic Geology                                 | 3     |  |  |  |  |
| HLTH 4390Environmental Health3PHIL 4334Environmental Ethics3PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3PLSC 4397Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3   | GEOL 4399  | Environmental and Geoscience Internship          | 3     |  |  |  |  |
| PHIL 4334Environmental Ethics3PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3PLSC 4397Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3   | GEOL 4426  | Hydrogeology                                     | 4     |  |  |  |  |
| PLSC 4330Soil Fertility Management and Fertilizers3PLSC 4370Forage Crops and Pasture Management3PLSC 4397Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3   | HLTH 4390  | Environmental Health                             | 3     |  |  |  |  |
| PLSC 4370Forage Crops and Pasture Management3PLSC 4397Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3  | PHIL 4334  | Environmental Ethics                             | 3     |  |  |  |  |
| PLSC 4397Integrated Pest Management3SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3   | PLSC 4330  | Soil Fertility Management and Fertilizers        | 3     |  |  |  |  |
| SOCI 4334Sociology Of Disaster3SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3   | PLSC 4370  | Forage Crops and Pasture Management              | 3     |  |  |  |  |
| SOCI 4337Environment And Society3WMGT 2301Principles of Wildlife Management3  | PLSC 4397  | Integrated Pest Management                       | 3     |  |  |  |  |
| WMGT 2301 Principles of Wildlife Management 3   | SOCI 4334  | Sociology Of Disaster                            | 3     |  |  |  |  |
|   | SOCI 4337  | Environment And Society                          | 3     |  |  |  |  |
| WMGT 3382Habitat & Pond Management3   | WMGT 2301  | Principles of Wildlife Management                | 3     |  |  |  |  |
|   | WMGT 3382  | Habitat & Pond Management                        | 3     |  |  |  |  |

## 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.

A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours. All minors can be paired with this degree program.

All minors can be paired with this degree program.

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 (Sustainability) is designed to provide graduates with the following marketable skills:

- · Use the scientific method to address environmental problems.
- · Think critically.
- · Generate and/or interpret geospatial data based geographic information systems (GIS) and/or remote sensing.
- · Apply knowledge of the environment and ecosystems to address environmental issues.
- · Interpret environmental policy to work within existing regulations.
- · Interdisciplinary problem solvers that can integrate Biology, Chemistry, Geoscience, and social science.