# Guide to Earning a Double Major in Environmental and Sustainability Studies and Geography and Sustainable Planning

GPY courses in **green** may also count toward the ENS major, but **there must be a minimum of 30 unduplicated credits in each major.**

All **BA or BS requirements** must be completed for each of the two majors.

GVSU requires a **minimum of 120 credits** total for the BA or BS degree.

## BA or BS in Environmental and Sustainability Studies

### 35-36 credits, plus 9-11 credits BA/BS requirements

<table>
<thead>
<tr>
<th><strong>First Year</strong></th>
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<tbody>
<tr>
<td>WRT 150</td>
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<tr>
<td>MTH 110</td>
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General Education Foundations Courses (may include courses that count toward the three ENS “Perspectives” Categories)

<table>
<thead>
<tr>
<th><strong>Second Year</strong></th>
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<tbody>
<tr>
<td>ENS 201</td>
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Begin BA or BS requirement courses

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<tr>
<th><strong>Third Year</strong></th>
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<tr>
<td>ENS 300</td>
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Upper level ENS “Perspectives” courses

<table>
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<tr>
<th><strong>Fourth Year</strong></th>
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<tbody>
<tr>
<td>Internship or Practicum</td>
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|  |
|----------------|---|
| ENS 401 |  |

Complementary electives to meet 120 credit total

## BA or BS in Geography and Sustainable Planning

### 36-37 credits, plus BA/BS requirements

<table>
<thead>
<tr>
<th><strong>First Year</strong></th>
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<tbody>
<tr>
<td>GPY 100 - Physical and Environmental Geography</td>
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<tr>
<td>GPY 220 - Cultural Geography</td>
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<tr>
<td>WRT 150 - Strategies in Writing</td>
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General Education Foundations Course

<table>
<thead>
<tr>
<th><strong>Second Year</strong></th>
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<tbody>
<tr>
<td>STA 215 - Introductory Applied Statistics</td>
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<tr>
<td>General Education SWS course</td>
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<tr>
<td>General Education Foundations Course</td>
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<tr>
<td>GPY 307 - Intro to Geographic Information Systems</td>
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<tr>
<td>GPY 310 - Land Use Planning</td>
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<tr>
<td>GPY 354 - Geography and Globalization of Asia</td>
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General Education Cultures Course

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<tr>
<th><strong>Third Year</strong></th>
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<tbody>
<tr>
<td>GPY 324 - Urbanization</td>
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<tr>
<td>GPY 350 - Geopolitics, Energy and Environment of Russia and Central Eurasia</td>
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<td>GPY 370 - Introduction to Remote Sensing</td>
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<tr>
<td>General Education Issues Course</td>
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<tr>
<td>GPY 312 - Urban and Regional Environmental Planning</td>
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<td>GPY 356 - The Geography, Culture and Land Use Management of Europe</td>
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<tr>
<td>GPY 407 - Advanced GIS</td>
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<tr>
<td>General Education Issues Course 2</td>
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<tr>
<th><strong>Fourth Year</strong></th>
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<tr>
<td>GPY 345 - The Geography and Land Use Management of Michigan and the Great Lakes Area</td>
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<td>GPY 362 - Farmers, Crops, and Our Challenging Agricultural World</td>
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<tr>
<td>GPY 363 - World Forests and Their Use</td>
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<tr>
<td>GPY 410 - Landscape Analysis</td>
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<tr>
<td>GPY 412 - Global Environmental Change</td>
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<tr>
<td>GPY 470 - Digital Image Processing</td>
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<tr>
<td>GPY 490 - Internship</td>
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<tr>
<td>GPY 495 - Senior Thesis</td>
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Complementary electives to meet 120 credit total
GUIDE TO EARNING A DOUBLE MAJOR IN
Environmental and Sustainability Studies and Geology

GEO courses in green may also count toward the ENS major, but there must be a minimum of 30 unduplicated credits in each major.

All BA or BS requirements must be completed for each of the two majors.

GVSU requires a minimum of 120 credits total for the BA or BS degree.

BA or BS in Environmental and Sustainability Studies
35-36 credits, plus 9-11 credits BA/BS requirements

First Year
WRT 150
MTH 110
General Education Foundations Courses (may include courses that count toward the three ENS “Perspectives” Categories)

Second Year
ENS 201
Begin BA or BS requirement courses
Additional General Education Foundations Courses (may include courses that count toward the three ENS “Perspectives” Categories)
First SWS course

Third Year
ENS 300
Upper level ENS “Perspectives” courses
Additional BA or BS requirement courses
Second SWS course
ENS “Technical Skills” Course

Fourth Year
Internship or Practicum
ENS 401
Complementary electives to meet 120 credit total

BS in Geology
46-47 credits, plus BS requirements

First Year
CHM 115 - Principles of Chemistry I
GEO 111 - Exploring the Earth
MTH 122 - College Algebra
WRT 150 - Strategies in Writing
CHM 116 - Principles of Chemistry II
GEO 112 - Earth History

Second Year
General Education Courses
Geology elective
GEO 214 - Solid Earth Materials and Systems
OR
GEO 220 - Earth Surface Materials and Systems
GEO 175 - Research Tools for Geosciences
MTH/CIS/STA Elective

Third Year
General Education Course
GEO 311 - Structural Geology
GEO 315 - Geological Field Methods
GEO 312 - Sedimentation-Stratigraphy
GEO 314 - Petrography: Mineral and Rock

Fourth Year
Geology elective
General Education Course
GEO 486 - Geology Reading Seminar
GEO 485 - Geology Research and Writing
GEO 411 - Global Tectonics
Geology BS - Environmental Emphasis Option
Complementary electives to meet 120 credit total
GUIDE TO EARNING A DOUBLE MAJOR IN
Environmental and Sustainability Studies and Global Studies and Social Impact

GSI courses in green may also count toward the ENS major, but there must be a minimum of 30 unduplicated credits in each major.

All BA or BS requirements must be completed for each of the two majors.

GVSU requires a minimum of 120 credits total for the BA or BS degree.

BA or BS in Environmental and Sustainability Studies
35-36 credits, plus 9-11 credits BA/BS requirements

First Year
WRT 150
MTH 110
General Education Foundations Courses (may include courses that count toward the three ENS “Perspectives” Categories)

Second Year
ENS 201
Begin BA or BS requirement courses
Additional General Education Foundations Courses (may include courses that count toward the three ENS “Perspectives” Categories)
First SWS course

Third Year
ENS 300
Upper level ENS “Perspectives” courses
Additional BA or BS requirement courses
Second SWS course
ENS “Technical Skills” Course

Fourth Year
Internship or Practicum
ENS 401
Complementary electives to meet 120 credit total

BS in Global Studies and Social Impact
39 credits, plus BS requirements

First Year
GSI 201 - (Dis)Order and (In)Justice: An Introduction to Global Studies
GSI 202 - History Global Change/Social Transformation
WRT 150 - Strategies in Writing

Second Year
STA 215 - Introductory Applied Statistics
MTH 110
Area Studies Section 1 Course 1

Third Year
Area Studies Section 1 Course 2
LIB 301 - Interdisciplinary Research Methods
General Education Foundations Courses

Fourth Year
GSI 495 - Global Studies and Social Impact
General Education Issues course 2
Second SWS course
Complementary electives to meet 120 credit total
GUIDE TO EARNING A DOUBLE MAJOR IN
Environmental and Sustainability Studies and Natural Resources Management

NRM courses in green may also count toward the ENS major, but there must be a minimum of 30 unduplicated credits in each major.

All BA or BS requirements must be completed for each of the two majors.

GVSU requires a minimum of 120 credits total for the BA or BS degree.

BA or BS in Environmental and Sustainability Studies
35-36 credits, plus 9-11 credits BA/BS requirements

First Year
WRT 150
MTH 110
General Education Foundations Courses (may include courses that count toward the three ENS “Perspectives” Categories)

Second Year
ENS 201
Begin BA or BS requirement courses
Additional General Education Foundations Courses (may include courses that count toward the three ENS “Perspectives” Categories)
First SWS course

Third Year
ENS 300
Upper level ENS “Perspectives” courses
Additional BA or BS requirement courses
Second SWS course
ENS “Technical Skills” Course

Fourth Year
Internship or Practicum
ENS 401
Complementary electives to meet 120 credit total

BS in Natural Resources Management
36 NRM credits + 26 other required = 72 credits, plus BS requirements

First Year
BIO 120 - General Biology I
CHM 109 or 115 - Intro Chemistry/Principles of Chem.
NRM 150/Gen Ed/WRT 098 (choose two)
Electives (2 credits)
BIO 121 - General Biology II
MTH 122 or 123 or 125 or 201
WRT 150 - Strategies in Writing

Second Year
BIO 215 - Ecology
NRM 250 - Resource Measurements and Maps
NRM 281 - Principles of Soil Science
General Education Courses (6 credits)
Elective (1 credit)
NRM 320 or 395
NRM elective
STA 215 - Introductory Applied Statistics
ECO 211 - Introductory Microeconomics

Third Year
NRM 451 - Natural Resource Policy
NRM upper level electives (15-17 credits)
ECO 345 - Environmental & Resource Economics
General Education or elective (6 credits)
General Education with SWS designation (3 credits)

Fourth Year
BIO 460 - Terrestrial Ecosystem Ecology
NRM upper electives (9-12 credits)
Electives (9-12 credits)
NRM 495 or 496 + 497 (4 credits)
Complementary electives to meet 120 credit total
GUIDE TO EARNING A DOUBLE MAJOR IN
Environmental and Sustainability Studies and Political Science

PLS courses in green may also count toward the ENS major, but there must be a minimum of 30 unduplicated credits in each major.

All BA or BS requirements must be completed for each of the two majors.

GVSU requires a minimum of 120 credits total for the BA or BS degree.

Major in Environmental and Sustainability Studies
35-36 credits, plus 9-11 credits BA/BS requirements

First Year
WRT 150
MTH 110
General Education Foundations Courses (may include courses that count toward the three ENS “Perspectives” Categories)

Second Year
ENS 201
Begin BA or BS requirement courses
Additional General Education Foundations Courses (may include courses that count toward the three ENS “Perspectives” Categories)
First SWS course

Third Year
ENS 300
Upper level ENS “Perspectives” courses
Additional BA or BS requirement courses
Second SWS course
ENS “Technical Skills” Course

Fourth Year
Internship or Practicum
ENS 401
Complementary electives to meet 120 credit total

BA or BS in Political Science
36 credits, plus BA/BS requirements

First Year
PLS 102 - American Government and Politics
General Education Natural Science course
WRT 150 - Strategies in Writing
General Education Arts and/or Philosophy and Literature course
General Education Natural Science course
PLS 103 - Issues in World Politics
MTH 110
General Education Social Science course from another discipline (fulfilling ENS major elective requirement)

Second Year
PLS 211 - International Relations
PLS 231 or 232 - Classic Political Thought or SWS Modern Political Thought
PA 307/GPY 308 - Local Politics and Administration
STA 215 - Introductory Applied Statistics
General Educations U.S. Diversity Course
PLS 300 - Political Analysis
PLS Political Thought elective requirement

Third Year
PLS 350 - Comparative Public Opinion
PLS/ENS 303 - Intro to U.S. Environmental Policy
PLS Internship
General Education Issues course
PLS 314 - International Law
PLS Comparative Politics elective requirement
General Education World Perspectives course (fulfilling ENS major elective requirement)

Fourth Year
PLS 495 - SWS Seminar in the Study of Politics (capstone)
PLS Elective (300 level or above)
General Education Issues course 2
PLS Internship
PLS Elective (300 level or above)
Complementary electives to meet 120 credit total