

Brooks College of Interdisciplinary Studies
Environmental and Sustainability Studies Major, B.A., B.S. (2021-2022)

A total of 35-37 credits are required to complete the major in Environmental and Sustainability Studies.

For additional advising resources, refer to www.gvsu.edu/ens/advising.

Name: _____ G#: _____ Anticipated Grad: _____ Advisor: _____

CORE COURSES: All required (9 credits needed) Last Updated Date: _____

- ____ ENS 201: Introduction to Environmental and Sustainability Studies (SFS)
- ____ ENS 300: Principles of Sustainability (req. ENS 201)
- ____ INT 301: Interdisciplinary Research Methods (Jr. status recommended)

TECHNICAL SKILLS (3-4 credits needed) Choose one course from the following:

- ____ ENS 305: Sustainability Assessment and Reporting (req. ENS 201)
- ____ GPY 307: Introduction to Geographic Information Systems (TS+BS)
- ____ GPY 370: Introduction to Remote Sensing (TS+BS)
- ____ NRM 250: Resource Measurement and Maps
- ____ PHO 171: Photography 1 (4 cr.)
- ____ STA 301: Questionnaire Design and Execution (req. STA 215 or 312) (TS+BS)
- ____ STA 311: Introduction To Survey Sampling (req. STA 216)
- ____ STA 341: Demographic Methods (req. Jr., STA 215 or 312) (I)
- ____ WRT 200: Introduction to Professional Writing (req. WRT 130 or 150)
- ____ WRT 253: Document Production and Design (req. WRT 130 or 150)
- ____ WRT 350: Business Communication (req. WRT 130 or 150)

Check here if
course substitution

Key

- GP=** Global Perspectives
- HP=** Foundation-Historical Perspectives
- I=** Issues
- NS=** Foundation-Natural Sciences
- SBS=** Foundation-Social and Behavioral Sciences
- SFS=** Sustainable Food Systems Certificate
- TS+BS=** Fulfills both Tech. Skills and BS requirements
- US=** U.S. Diversity

TRIPLE BOTTOM LINE OVERVIEW COURSES (9 credits needed) One course from each of the following three groups;
 No course may count toward both a Focus Area and the Triple Bottom Line Overview.

I. Social and Cultural Perspectives –

The arts, humanities, and social sciences create, interpret, and analyze cultural narratives that influence humans' interactions with their environments.

- ____ ANT 340: Culture & Envir. (req. Jr, WRT 130 or 150, HP or US) (I, GP)
- ____ ART 423: Animals in Art (req. Jr.) (I)
- ____ BIO 338: Environmental Ethics (req. Jr., WRT 130 or 150) (I)
- ____ ENG 382: Literature & Environment (req. Jr., WRT 130 or 150) (I)
- ____ ENS 311: To Bee or Not to Bee: Honey Bees and Social Impact
- ____ HST 323: Michigan History
- ____ INT 330: The Idea of Nature (req. Jr.) (I)
- ____ PNH 360: Voluntarism and the Non-Profit Sector
- ____ PSY 362: Environmental Psychology

Check here if
course substitution

II. Physical and Life Science Perspectives –

Knowledge from the physical and life sciences defines the context and limits of humans' interactions with their environments.

- ____ BIO 105: Environmental Science (NS)
- ____ ENS 310: How Biosphere Works
(req. ENS 201, Jr., completion of NS)
- ____ GPY 100: Physical/Environmental Geography
- ____ NRM 330: Environmental Pollution
(req. CHM 109 or CHM 116)

Check here if
course substitution

III. Political and Economic Perspectives –

Policy studies, economics, and the social sciences describe and analyze social structures that influence humans' interactions with their environments.

- ____ ECO 345: Environmental and Resource Economics (req. Jr., ECO 200 or 211, Seidman permit) (I)
- ____ GPY 361: People, Environment, and Development in the Amazon (req. Jr.) (I)
- ____ INT 322: Wicked Problems of Sustainability (req. Jr.) (I)
- ____ NRM 150: Introduction to Natural Resources
- ____ NRM 451: Natural Resource Policy (req. Jr., completion of NS or permission) (I)
- ____ OSH 414: Environmental Safety and Health Regulations
- ____ PNH 307: Local Politics and Administration (req. Jr.) (I)
- ____ PLS/ENS 303: Introduction to U.S. Environmental Policy (req. Jr.) (I)
- ____ PLS 314: International Law (req. Jr. or PLS 211)

Check here if
course substitution

SYNTHESIS AND APPLICATION (5 credits)

- ____ ENS 401: Environmental Problem Solving (Capstone) (3 cr.) (req. Jr., ENS 201)
- AND**
- ____ ENS 490: Internship (minimum 2 cr.) **OR** ____ ENS 491: Practicum (minimum 2 cr.)

FOCUS AREA COURSES (9-10 credits minimum)

Students must complete the required coursework in at least one of the following Focus Areas:
Sustainable Food Systems, Energy, Water Resources, or Culture and the Built Environment

Focus Area: Sustainable Food Systems

Complete the required food safety course and one course from each perspectives list; No course may count as both a Focus Area course and as a Triple Bottom Line course.

Requirement: Food Safety

___ HTM 201: Good Food Gone Bad- Food Safety (1 cr.) (SFS)

OR

___ HTM 250: Food Production and Kitchen Management (4 cr.)(SFS)

I. Social and Cultural Perspectives

___ ART 423: Animals in Art (preq. Jr.) (I)

___ ENS 311: To Bee or Not to Bee; Honey Bees and Social Impact

___ GPY 362 Farmers, Crops, and Our Challenging Ag. World
(preq. Jr.) (I, GP, SFS)

___ GPY 363: World Forests and Their Use (preq. Jr.) (I, GP)

___ HNR 151: Food for Thought 1 (preq. HNR College)

___ INT 342: Food Matters (preq. Jr.) (I, SFS)

___ SOC 288: Sociology of Food (SFS)

II. Physical and Life Science Perspectives

___ BIO 319: Global Agricultural Sustainability

(preq. Jr, completion of Foundations Life Sci) (I, SFS)

___ ENS 392: Sustainable Agriculture: Ideas/Tech. (preq. Jr.) (SFS, I)

___ NRM 281: Principles of Soil Science (4 cr.)

(preq. CHM 109 or 115) (SFS)

III. Political and Economic Perspectives

___ GPY 345: Geography/Land Use Management of MI /Great Lakes

___ GPY 361: People, Envir., & Dev. in the Amazon (preq. Jr.)(I)

Check here if
course substitution

Focus Area: Energy

Complete one course from each perspectives list; No course may count as both a Focus Area course and a Triple Bottom Line course.

I. Social and Cultural Perspectives

___ GPY 363: World Forests and Their Use (preq. Jr.) (I)

___ HST 323: Michigan History

___ INT 330: The Idea of Nature (preq. Jr.) (I)

II. Physical and Life Science Perspectives

___ BIO 105: Environmental Science (NS)

___ BIO 215: General Ecology (4 cr.)

(preq. BIO 120, or CMB 155 & CMB 156, BIO 121)

___ EGR 360: Thermodynamics (preq. PHY 231 or 234, MTH 302,
admitted to electrical, interdisciplinary, mechanical, or
product design engineering major)

___ GPY/ENS 412: Global Climate and Environmental Change
(preq. Jr., either GPY 100 or ENS 201 or completed NS) (I)

III. Political and Economic Perspectives

___ ECO 345: Environmental and Resource Economics

(preq. Jr., ECO 200 or 211, Seidman Permit) (I)

___ EGR 406: Renewable Energy: Structure/Policy/Analysis
(preq. Jr., STA 215 or 200 or 312) (I)

___ NRM 451: Natural Resource Policy

(preq. Jr., completion of NS or permission) (I)

Check here if
course substitution

Focus Area: Water Resources

Complete one course from each perspectives list; No course may count as both a Focus Area course and as a Triple Bottom Line course.

I. Social and Cultural Perspectives

___ BIO 338: Environmental Ethics (preq. Jr., WRT 130 or 150) (I)

___ HST 323: Michigan History

___ INT 330: The Idea of Nature (preq. Jr.) (I)

II. Physical and Life Science Perspectives

___ BIO 107: Great Lakes and Other Water Resources (4 cr.)

___ BIO 215: General Ecology (4 cr.) (preq. BIO 120, or CMB 155 & CMB 156, BIO 121; BIO 120 may be taken concurrently)

___ GEO 105: Living with the Great Lakes (NS)

III. Political and Economic Perspectives

___ GPY 345: Geography and Land Use Management of MI and the Great Lakes Area

___ NRM 451: Natural Resource Policy (preq. Jr., completion of NS or permission) (I)

___ OSH 414: Environmental Safety and Health Regulations

Check here if
course substitution

Focus Area: Culture and the Built Environment

Complete one course from each perspectives list; No course may count as both a Focus Area course and as a Triple Bottom Line course.

I. Social and Cultural Perspectives

- ____ ANT 340: Culture/Envir. (req. Jr., WRT 130 or 150, HP or US) (I, GP)
 ____ ENG 382: Literature & Environment (req. Jr., WRT 130 or 150) (I)
 ____ GPY 410: Landscape Analysis and Green Infrastructure (req. Jr.) (I)
 ____ HST 320: American Indians
 ____ HST 327: History of United States Urban Society
 ____ SW 150: Intro to Social Work & Social Welfare (SBS)
 ____ WGS 335: Women, Health and the Environment (req. Jr.) (I)

II. Physical and Life Science Perspectives

- ____ EGR 306: Urban Sustainability (req. Jr., MTH 110) (I)
 ____ GPY 312: Urban and Regional Environmental Planning
 ____ NRM 330: Environmental Pollution (req. CHM 109 or 116)

III. Political and Economic Perspectives

- ____ CJ 370: Environmental Crime and Justice (req. Jr.)
 ____ GPY/PNH 324: Urbanization (req. Jr.) (I, GP)
 ____ GPY 335: Globalization and Development (req. Jr.) (I)
 ____ GPY 361: People, Envir., & Dev. in the Amazon (req. Jr.) (I)
 ____ HTM 368: Geotourism (req. Jr., HTM 202) (I)
 ____ SOC 351: Urban Sociology (req. Jr., SOC 101) (I)

Check here if
course substitution

COURSE SUBSTITUTIONS

If an approved course is being accepted as a substitution to fulfill a requirement for the ENS major, please specify.

is substituting for:

is substituting for:

is substituting for:

is substituting for:

DEGREE REQUIREMENTS (Select from B.A. or B.S. Option)**B.A.** 3rd semester proficiency in a foreign language:

- ____ 201 Course
OR
 ____ Pass Proficiency Exam

B.S. Candidates for the B.S. must complete the following:

- ____ STA 215: Introductory Applied Statistics (3 cr.)
 (req. MTH 110 or equivalent)
OR
 ____ GPY 200: Computer Cartography (3 cr.) (req. MTH 110)

AND one of the following (3 cr.):

- ____ AHS 301: Intro to Health Care Research (req. STA 215)
 ____ GPY 307: Introduction to Geographic Info Systems (TS+BS)
 ____ HST 290: Research Methods in History (req. STA 215 or 312)
 ____ PLS 300: Political Analysis (req. STA 215)
 ____ PSY 300: Research Methods in Psychology
 (req. PSY 101 and STA 215 or STA 312)

AND one of the following (3 cr.):

- ____ GPY 370: Introduction to Remote Sensing (TS+BS)
 ____ GPY 407: Advanced GIS (4 cr.) (req. GPY 307)
 ____ STA 216: Intermediate Applied Statistics (req. STA 215 or 312)
 ____ STA 301: Questionnaire Design and Execution
 (req. STA 215 or 312) (TS+BS)
 ____ STA 314: Statistical Quality Methods (req. STA 215)
 ____ STA 318: Statistical Computing (req. STA 215)
 ____ STA 340: Statistics in the Media (req. Jr., STA 215)

This form is a planning tool and does not constitute an agreement regarding program requirements.

It is imperative that you meet with an advisor early and often during your time at GVSU.

TOTAL NUMBER OF CREDITS: _____

Brooks College Advising Center

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www.gvsu.edu/brooksadvising