Brooks College of Interdisciplinary Studies

Environmental and Sustainability Studies Major, B.A., B.S. (2025-2026)

A total of 35 credits, plus 9-12 credits for B.A or B.A.S. are required to complete the major in Environmental and Sustainability Studies (ENS). Contact the ENS Program at ens@gvsu.edu or (616) 331-8016.

How to Declare a Major/Minor * General Education Requirements * ENS Student Resources

Advisor: Anticipated Grad: Last Updated: CORE COURSES: All required (9 credits) ENS 201: Introduction to Environmental and Sustainability Studies, 3crENS 300: Principles of Sustainability, 3cr (preq. ENS 201)	
CORE COURSES: All required (9 credits) ENS 201: Introduction to Environmental and Sustainability Studies, 3cr	
ENS 201: Introduction to Environmental and Sustainability Studies, 3cr	
ENS 201: Introduction to Environmental and Sustainability Studies, 3cr	
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ENS 301: Methods for Interdisciplinary ENS, 3cr (preq. ENS 201, MS, Jr. recommended)	
TECHNICAL SKILLS (3 credits) Choose one course from the following:	
ART 391: Civic Studio: Art in Public, 3cr (preq. Jr.)	
DS 202: Digital Data and Design, 3cr	
ENS 305: Sustainability Assessment and Reporting, 3cr (preq. ENS 201)	
GPY 200: Computer Cartography, 3cr (preq. MTH 108 & 109 or 110)	
GPY 307: Introduction to Geographic Information Systems, 3cr	
GPY 370: Introduction to Remote Sensing, 3cr	
NRM 250: Resource Measurement and Maps, 3cr	
PHO 170: Introduction to Photography, 3cr	
STA 301: Questionnaire Design and Execution, 3cr (preq. STA 215 or 312)	
STA 311: Introduction To Survey Sampling, 3cr (preq. STA 216)	
STA 341: Demographic Methods, 3cr (preq. Jr., STA 215 or 312)	
WRT 200: Introduction to Professional Writing, 3cr (preq. FW)	
WRT 253: Document Production and Design, 3cr (preq. FW)	
WRT 350: Business Communication, 3cr (preq. FW)	
Course Substitution	
SYNTHESIS AND APPLICATION (5 credits min.)	
ENS 401: Environmental Problem Solving (Capstone), 3cr (preq. Jr., ENS 201)	
AND	
ENS 490: Internship (minimum 2 cr.) OR ENS 491: Practicum (minimum 2	cr.)

PREREQUISITE KEY

FW = Foundations: Writing **HA** = Foundations: Historical Analysis **LS** = Foundations: Life Sciences **MS** = Foundations: Math Sciences **NS** = Foundations: Natural Sciences **US** = Cultures: U.S. Diversity

TRIPLE BOTTOM LINE OVERVIEW COURSES (9 -10 credits)

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 Perspective	I. Soc	ial and	l Cultural	Pers	pective
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The arts, humanities, and social sciences create, interpret, and analyze cultural narratives that influence humans
interactions with their environments.
ANT 340: Culture & Environment, 3cr (preq. Jr., FW & HA or US)
ART 295: Space Studio: Art, Installation, Environment, Site, 3cr
ART 391: Civic Studio: Art in Public, 3cr (preq. Jr.)
ART 423: Animals in Art, 3cr (preq. Jr.)
BIO 338: Environmental Ethics, 3cr (preq. Jr., FW)
ENG 382: Literature and the Environment, 3cr (preq. Jr., FW)
ENS 242: Climate Change in Popular Culture, 3cr
ENS 238: Exploring Michigan's Waterways Through Time, 3cr
ENS 311: To Bee or Not to Bee: Honeybees and Social Impact, 3cr
ENS 381: Study Abroad in ENS, 3cr to 9cr (permit required)
HST 323: Michigan History, 3cr
INT 330: The Idea of Nature, 3cr (preq. Jr.)
INT 370: Anishinaabeg Lifeways: Past, Present, and Future, 3cr
PNH 360: Voluntarism and the Nonprofit Sector, 3cr
PSY 362: Environmental Psychology, 3cr
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, 3cr
ENS 310: How the Living Earth Works, 3cr (preq. Jr.)
ENS 347: Natural Disasters and Social Inequality, 3cr
GPY 100: Phys. & Environ. Geography, 3cr
NRM 330: Environmental Pollution, 3cr (preq. CHM 109 or 116)
PHY 215: Energy in Modern Life, 4cr (preq. MTH 108 & 109 or 110)
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, 3cr (preq. Jr, ECO211, permit)
ENS/PHI 302: Environmental Justice, 3cr
ENS/PLS 303: Introduction to U.S. Environmental Policy, 3cr (preq. Jr.)
GPY 361: People, Environment, and Development in the Amazon, 3cr (preq. Jr.)
GSI 365: Global Climate Justice, 3cr (preq. Jr., GSI 201 or ENS 201 or permit)
INT 322: Wicked Problems of Sustainability, 3cr (preq. Jr.)
NRM 150: Introduction to Natural Resource Conservation, 3cr
NRM 451: Natural Resource Policy, 3cr (preq. Jr., NS or permit)
OSH 414: Environmental Safety and Health Regulations, 3cr
PLS 314: International Law, 3cr (preq. Jr. or PLS 211)
PNH 307: Local Politics and Administration, 3cr
Course Substitution

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 and Climate Change, Water Resources, or Culture and the Built Environment

Focus Area: Sustainable Food Systems
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. Food Safety Perspectives
CMB 140: Living Foods! Ferment them Yourself, 4cr
HTM 201: Good Food Gone Bad- Food Safety, 3cr
HTM 250: Food Production and Kitchen Management, 4cr
II. Social and Cultural Perspectives
ART 423: Animals in Art, 3cr (preq. Jr.)
ENS 311: To Bee or Not to Bee: Honeybees and Social Impact, 3cr
GPY 362 Farmers, Crops, and Our Challenging Ag. World, 3cr (preq. Jr.)
GPY 363: World Forests and Their Use, 3cr (preq. Jr.)
SOC 288: Sociology of Food, 3cr
Course Substitution
III. Physical and Life Science Perspectives
BIO 319: Global Agricultural Sustainability, 3cr (preq. Jr, LS)
ENS 310: How the Living Earth Works, 3cr (preq. Jr.)
ENS 392: Sustainable Agriculture: Ideas/Tech, 3cr (preq. Jr.)
NRM 281: Principles of Soil Science, 4cr (preq. CHM 109 or 115)
Course Substitution
IV. Political and Economic Perspectives
GPY 345: Geography/Land Use Management of MI /Great Lakes, 3cr
GPY 361: People, Envir., & Dev. in the Amazon, 3cr (preq. Jr.)
GIT 301.1 copic, Envir., & Dev. in the Amazon, set (preq. 31.)INT 342: Food Matters, 3cr (preq. Jr.)
Course Substitution
Course Substitution
Focus Area: Energy and Climate Change
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
ENS 242: Climate Change in Popular Culture, 3cr
GPY 363: World Forests and Their Use, 3cr (preq. Jr.)
HST 323: Michigan History, 3cr
IDS 350: Building Bridges Through Conversation, 3cr (preq Jr.)
INT 330: The Idea of Nature, 3cr (preq. Jr.)
Course Substitution
II. Physical and Life Science Perspectives
BIO 105: Environmental Science, 3cr
BIO 215: Ecology, 4 cr (preq. BIO 121)
EGR 360: Thermodynamics, 4cr (preq. PHY 231 or PHY 234; MTH 302; and admitted to electrical, interdisciplinary,
mechanical, or product design and manufacturing engineering major)
ENS 310: How the Living Earth Works, 3cr (preq. Jr.)
GPY/ENS 412: Global Climate and Environmental Change, 3cr (preq. Jr., GPY 100 or ENS 201 or NS course)
PHY 215: Energy in Modern Life, 4cr (preq. MTH 108 & MTH 109 or MTH 110)
Course Substitution
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III. Political and Economic Perspectives
ECO 345: Environmental and Resource Economics, 3cr (preq. Jr., ECO 211, Seidman Permit)
EGR 406: Renewable Energy: Structure/Policy/Analysis, 3cr (preq. Jr., STA 215 or 200 or 312)
GSI 365: Global Climate Justice, 3cr (preq. GSI 201 or ENS 201 or instructor permission)NRM 451: Natural Resource Policy, 3cr (preq. Jr., completion of NS or permission)
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Course Substitution

Focus	Area:	Water	Resor	urces
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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, 3cr (preq. Jr., FW)

ENS/NRM/SOC 222 - Social Inquiry and West Michigan Water, 3cr

ENS 238 - Polluted, Poisoned, and Pillaged: Exploring Michigan's Waterways Through Time, 3cr

__HST 323: Michigan History, 3cr

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

Course Substitution

II. Physical and Life Science Perspectives

__BIO 107: Great Lakes and Other Water Resources, 4cr

__BIO 215: General Ecology, 4cr (preq. BIO 121)

ENS 310: How the Living Earth Works, 3cr (preq. Jr.)

__GEO 105: Living with the Great Lakes, 3cr

Course Substitution

III. Political and Economic Perspectives

____GPY 345: Geography and Land Use Management of MI and the Great Lakes Area, 3cr

__NRM 451: Natural Resource Policy, 3cr (preq. Jr., completion of NS or permission)

OSH 414: Environmental Safety and Health Regulations, 3cr

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 & Environment, 3cr (preq. Jr., FW & HA or US)

__ART 295: Space Studio: Art, Installation, Environment, Site, 3cr

ENG 382: Literature & Environment, 3cr (preq. Jr., FW)

GPY 410: Landscape Analysis and Green Infrastructure, 3cr (preg Jr.)

HST 320: American Indians, 3cr

HST 327: History of United States Urban Society, 3cr

__INT 370: Anishinaabeg Lifeways: Past, Present, and Future, 3cr

SW 150: Intro to Social Work & Social Welfare, 3cr

__WGS 335: Women, Health and the Environment (preq. Jr.)

____Course Substitution _

II. Physical and Life Science Perspectives

_EGR 306: Urban Sustainability, 3cr (preq. Jr., MTH 108 and MTH 109 (or MTH 110)

ENS 310: How the Living Earth Works, 3cr (preg. Jr.)

ENS 347: Natural Disasters and Social Inequality, 3cr

__GPY 312: Urban and Regional Environmental Planning, 3cr

NRM 330: Environmental Pollution, 3cr (preg. CHM 109 or 116)

Course Substitution

III. Political and Economic Perspectives

__CJ 370: Environmental Crime and Justice, 3cr (preq. Jr.)

ENS/PHI 302: Environmental Justice, 3cr

ENS 305: Sustainability Assessment and Reporting, 3cr (preq. ENS 201)

GPY/PNH 324: Urbanization (preq. Jr.)

GPY 335: Globalization and Development (preg. Jr.)

GPY 361: People, Envir., & Dev. in the Amazon (preg. Jr.)

HTM 368: Geotourism (preq. Jr., HTM 202)

SOC 351: Urban Sociology (preq. Jr., SOC 101)

_Course Substitution

DEGREE REQUIREMENTS (Select from B.A. or B.S. Option) Bachelor of Arts (B.A.) Twelve credits are required. Third-semester proficiency in a foreign language of the student's choice, either classical or modern, equivalent to a 201 course in a GVSU language program. 3rd semester proficiency in a foreign language 201 Course OR Pass Proficiency Exam **Bachelor of Science (B.S.)** Candidates for the B.S. must complete nine to 10 credits: **Interdisciplinary Methods:** ENS 301: Methods for Interdisciplinary ENS, 3cr (preg. ENS 201, MS, Jr. recommended) Quantitative Analysis - Select 1 course from the following: GPY 200: Computer Cartography, 3cr (preg. MTH 108 & 109 or 110) PHY 215: Energy in Modern Life, 4cr (preg. MTH 108 & 109 or 110) STA 215: Introductory Applied Statistics, 3cr (preg. MTH 108 & 109 or 110) Additional Quantitative or Qualitative Skills - Select 1 course from the following: AHS 301: Intro to Health Care Research, 3cr (preg. STA 215) DS 202: Digital Data and Design, 3cr GPY 307: Introduction to Geographic Information Systems, 3cr GPY 370: Introduction to Remote Sensing, 3cr GPY 407: Advanced GIS, 4cr (preg. GPY 307) GPY 470: Digital Image Processing, 3cr (preg. GPY 307) HST 290: Research Methods in History, 3cr (preg. STA 215 or STA 312) PLS 300: Political Analysis, 3cr (preg. STA 215) PSY 300: Research Methods in Psychology, 3cr (preq. PSY 101, WRT 150, and (STA 215 or STA 312) STA 216: Intermediate Applied Statistics, 3cr (preg. STA 215 or STA 312) STA 301: Questionnaire Design and Execution, 3cr (preq. STA 215 or STA 312) STA 314: Statistical Quality Methods, 3cr (preg. STA 215) STA 318: Statistical Computing, 3cr (preq. STA 215) STA 340: Statistics in the Media, 3cr (preg. Jr., STA 215 or 220 or 312) TOTAL NUMBER OF CREDITS:___ **GRADUATION REQUIREMENTS** _2 Supplemental Writing Skills (SWS) courses Last 30 consecutive credits completed at GVSU

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

Earn a cumulative GPA of at least 2.0

Submit an Application for Undergraduate Diploma

Complete 58 credits at a senior institution

Obtain a minimum of 120 credits

Brooks College Advising Center 260 Lake Michigan Hall • (616) 331-8200 brooksadvising@gvsu.edu

https://www.gvsu.edu/brooksadvising/