

Brooks College of Interdisciplinary Studies

Environmental and Sustainability Studies Major, B.A., B.S. (2020-2021)

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

Name: _____ Date: _____ Advisor: _____

CORE COURSES: All required (9 credits needed)

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

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
- ____ GPY 370: Introduction to Remote Sensing
- ____ NRM 250: Resource Measurement and Maps
- ____ PHO 171: Photography 1 (4 cr.)
- ____ STA 301: Questionnaire Design and Execution (req. STA 215 or 312)
- ____ 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 150)
- ____ WRT 253: Document Production and Design (req. WRT 150)
- ____ WRT 350: Business Communication (req. WRT 150)

Key

SBS= Foundation-Social and Behavioral Sciences
GP= Global Perspectives
HP= Foundation-Historical Perspectives
I= Issues
NS= Foundation-Natural Sciences
SFS= Sustainable Food Systems Certificate
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/Environment (req. Jr., WRT 150, HP or US)(I,GP)
- ____ ART 423: Animals in Art (req. Jr.) (I)
- ____ BIO 338: Environmental Ethics (req. Jr., WRT 150) (I)
- ____ ENG 382: Literature and the Environment (req. Jr., WRT 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)
- ____ PA 360: Voluntarism and the Non-Profit Sector
- ____ PSY 362: Environmental Psychology

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)

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
- ____ PA 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)

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 for Everyone (1 cr.)
OR
___ HTM 250: Food Production and Kitchen Management (4 cr.)

I. Social and Cultural Perspectives

- ___ ART 423: Animals in Art (req. Jr.) (I)
___ ENS 311: To Bee or Not to Bee; Honey Bees and Social Impact
___ GPY 362 Farmers, Crops, and Our Challenging Ag. World
(req. Jr.) (I, GP, SFS)
___ GPY 363: World Forests and Their Use (req. Jr.) (I, GP)
___ HNR 151: Food for Thought I (req. HNR College)
___ INT 342: Food Matters (req. Jr.) (I, SFS)
___ SOC 288: Sociology of Food(SFS)

II. Physical and Life Science Perspectives

- ___ BIO 319: Global Agricultural Sustainability
(req. Jr, completion of gen. ed. Life Sci) (I, SFS)
___ ENS 392: Sustainable Agriculture: Ideas/Tech. (req. Jr.) (SFS, I)
___ NRM 281: Principles of Soil Science (4 cr.)
(req. CHM 109 or 115) (SFS)

III. Political and Economic Perspectives

- ___ GPY 345: Geography/Land Use Management of MI /Great Lakes
___ GPY 361: People, Environment, & Dev. in the Amazon (req. Jr.)(I)

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 (req. Jr.) (I)
___ HST 323: Michigan History
___ INT 330: The Idea of Nature (req. Jr.) (I)

II. Physical and Life Science Perspectives

- ___ BIO 105: Environmental Science (NS)
___ BIO 215: General Ecology (4 cr.)
(req. BIO 120, or CMB 155 & CMB 156, BIO 121)
___ EGR 360: Thermodynamics (req. PHY 231 or 234, MTH 302,
and admitted to electrical, interdisciplinary, mechanical, or
product design/manufacturing engineering major)
___ GPY/ENS 412: Global Climate and Environmental Change
(req. Jr., either GPY 100 or ENS 201 or completed NS) (I, SFS)

III. Political and Economic Perspectives

- ___ ECO 345: Environmental and Resource Economics
(req. Jr., ECO 200 or 211, Seidman Permit) (I)
___ EGR 406: Renewable Energy Systems: Structure/Policy/Analysis
(req. Jr., STA 215 or 200 or 312) (I)
___ NRM 451: Natural Resource Policy
(req. Jr., completion of NS or permission) (I)

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 (req. Jr., WRT 150) (I)
___ HST 323: Michigan History
___ INT 330: The Idea of Nature (req. Jr.) (I)

II. Physical and Life Science Perspectives

- ___ BIO 107: Great Lakes and Other Water Resources (4 cr.)
___ BIO 215: General Ecology (4 cr.) (req. 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 (req. Jr., completion of NS or permission) (I)
___ OSH 414: Environmental Safety and Health Regulations

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 and Environment (*preq. Jr., WRT 150, and HP or US*) (I, GP)
- ___ ANT 380: Environmental Archeology
- ___ ENG 382: Literature and the Environment (*preq. Jr., WRT 150*) (I)
- ___ GPY 410: Landscape Analysis and Green Infrastructure (*preq. Jr.*) (I)
- ___ HST 320: American Indians
- ___ HST 327: History of United States Urban Society
- ___ SW 150: Intro to Social Work and Social Welfare (SBS)
- ___ WGS 335: Women, Health and the Environment (*preq. Jr.*) (I)

II. Physical and Life Science Perspectives

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

III. Political and Economic Perspectives

- ___ CJ 370: Environmental Crime and Justice (*preq. Jr.*)
- ___ GPY/PA 324: Urbanization (*preq. Jr.*) (I, GP)
- ___ GPY 335: Globalization and Development (*preq. Jr.*) (I)
- ___ GPY 361: People, Environment, and Development in the Amazon (*preq. Jr.*) (I)
- ___ HTM 368: Geotourism (*preq. Jr., HTM 202*) (I)
- ___ SOC 351: Urban Sociology (*preq. Jr., SOC 101*) (I)

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.)
(*preq. MTH 110 or equivalent*)

AND one of the following (3 cr.):

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

AND one of the following (3 cr.):

- ___ GPY 370: Introduction to Remote Sensing
- ___ GPY 407: Advanced GIS (4 cr.) (*preq. GPY 307*)
- ___ STA 216: Intermediate Applied Statistics (*preq. STA 215 or 312*)
- ___ STA 301: Questionnaire Design and Execution
(*preq. STA 215 or 312*)
- ___ STA 314: Statistical Quality Methods (*preq. STA 215*)
- ___ STA 318: Statistical Computing (*preq. STA 215*)
- ___ STA 340: Statistics in the Media (*preq. 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 academic
advisor early and often in your career.*

TOTAL NUMBER OF CREDITS _____

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