

Brooks College of Interdisciplinary Studies
Environmental and Sustainability Studies Major, B.A., B.S.

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 (preq. ENS 201)
- ___ LIB 301: Interdisciplinary Research Methods

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

- ___ CPH 171: Photography 1
- ___ GPY 307: Introduction to Geographic Information Systems (preq. STA 215)
- ___ GPY 370: Introduction to Remote Sensing
- ___ ENS 305: Sustainability Assessment and Reporting (preq. ENS 201)
- ___ NRM 250: Resource Measurement and Maps
- ___ STA 301: Questionnaire Design and Execution (preq. STA 215 or 312)
- ___ STA 311: Introduction To Survey Sampling (preq. STA 216)
- ___ STA 341: Demographic Methods (preq. STA 215 or 312) and (STA 216 or an upper-level research methods course)
- ___ WRT 200: Introduction to Professional Writing (preq. WRT 150)
- ___ WRT 253: Document Production and Design (preq. WRT 150)
- ___ WRT 350: Business Communication (preq. 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 and Environment (preq. Jr., WRT 150, and HP or US) (I, GP)
- ___ ART 423: Animals in Art (preq. Jr.) (I) ****pending****
- ___ BIO 338: Environmental Ethics (preq. Jr., WRT 150)(I)
- ___ ENG 382: Literature and the Environment (preq. Jr., WRT 150) (I)
- ___ HST 323: Michigan History
- ___ LIB 330: Ideas of Nature (preq. 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 the Biosphere Works
- ___ GPY 100: Physical and Environmental Geography
- ___ NRM 330: Environmental Pollution (preq. 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 (preq. Jr., ECO 200 or 211, Seidman permit) (I)
- ___ GPY 361: People, Envir./Dev. in the Amazon (preq. Jr.) (I)
- ___ LIB 322: Wicked Problems of Sustainability (preq. Jr.) (I)
- ___ NRM 150: Introduction to Natural Resources
- ___ NRM 451: Natural Resource Policy (preq. Jr., completion of NS or permission) (I)
- ___ OSH 414: Environmental Safety and Health Regulations
- ___ PA 307: Local Politics and Administration (preq. Jr.) (I)
- ___ PLS/ENS 303: Introduction to U.S. Environmental Policy (preq. Jr.) (I)
- ___ PLS 314: International Law (preq. Jr. and PLS 211)

Focus Area Courses (9-10 credits minimum)

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

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)
- __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 Envir. and Dev. in the Amazon (preq. Jr.) (I)
- __HTM 368: Geotourism (preq. Jr., HTM 202) (I)
- __SOC 351: Urban Sociology (preq. Jr., SOC 101) (I)

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 (OR)
- __HTM 250: Food Production and Kitchen Management

I. Social and Cultural Perspectives

- __ART 423: Animals in Art (preq. Jr.) (I) ****pending****
- __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)
- __HNR 203: Food for Thought I (preq. Honors College, previous HNR course)
- __LIB 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 gen. ed. Life Sc.) (I, SFS)
- __ENS 392: Sustainable Agriculture: Ideas/Tech. (preq. Jr.) (SFS, I)
- __NRM 281: Principles of Soil Science (preq. CHM 109 or CHM 115) (SFS)

III. Political and Economic Perspectives

- __GPY 345: Geography and Land Use Management of MI and the Great Lakes Area
- __GPY 361: People, Envir, and Dev. in the Amazon (preq. 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 (preq. Jr.) (I)
- __HST 323: Michigan History
- __IDS 350: Climate Change Conversations and Collaboration for Our Future
- __LIB 330: Ideas of Nature (preq. Jr.) (I)

II. Physical and Life Science Perspectives

- __BIO 105: Environmental Science (NS)
- __BIO 215: General Ecology (preq. BIO 120 & 121 can be taken concurrently)
- __EGR 360: Thermodynamics (preq. PHY 231 or 234, MTH 302)
- __GPY/ENS 412: Global Climate and Environmental Change (preq. Jr.) (I, SFS)

III. Political and Economic Perspectives

- __ECO 345: Environmental and Resource Economics (preq. Jr., ECO 200 or 211, Seidman Permit) (I)
- __EGR 406: Renewable Energy Systems: Structure, Policy and Analysis (preq. Jr., STA 215 or 200 or 312) (I)
- __NRM 451: Natural Resource Policy (preq. Jr., completion of NS or permission) (I)

Additional Focus Area Courses on the Next Page →

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
- LIB 330: Ideas of Nature (req. Jr.) (I)

II. Physical and Life Science Perspectives

- BIO 107: Great Lakes and Other Water Resources
- BIO 215: General Ecology (req. BIO 120 & 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

SYNTHESIS AND APPLICATION (5 credits)

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

COGNATE (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.)

And one of the following (3cr.) (req. STA 215 for all):

- AHS 301: Introduction to Health Care Research
- GPY 307: Introduction to Geographic Info Systems (GPY 307 substitutes for GPY 300)
- HST 290: Research Methods in History
- PLS 300 Political Analysis

And one of the following (3 cr.):

- GPY 370: Introduction to Remote Sensing
- 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)
- STA 314: Statistical Quality Methods (req. STA 215)
- STA 318: Statistical Computing (req. STA 215)
- STA 340: Statistics in the Media (req. 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.

Brooks College Office of Integrative Learning and Advising

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TOTAL NUMBER OF CREDITS _____