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 (req. 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 (req. STA 215)
- GPY 370: Introduction to Remote Sensing
- ENS 305: Sustainability Assessment and Reporting (req. ENS 201)
- NRM 250: Resource Measurement and Maps
- 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. STA 215 or 312) and (STA 216 or an upper-level research methods course)
- 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)

**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.

### 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

#### 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 (req. Jr., WRT 150, and HP or US) (I, GP)
- ART 423: Animals in Art (req. Jr.) (I) **pending**
- BIO 338: Environmental Ethics (req. Jr., WRT 150) (I)
- ENG 382: Literature and the Environment (req. Jr., WRT 150) (I)
- HST 323: Michigan History
- 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 (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, Envir./Dev. in the Amazon (req. Jr.) (I)
- LIB 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. 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 (req. Jr., WRT 150, and HP or US) (I, GP)
  __ENG 382: Literature and the Environment (req. Jr, WRT 150) (I)
  __GPI 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 and Social Welfare (SBS)
  __WGS 335: Women, Health and the Environment (req. Jr.) (I)

II. Physical and Life Science Perspectives
  __EGR 360: Urban Sustainability (req. Jr., MTH 110) (I)
  __GPI 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.)
  __GPI/PA 324: Urbanization (req. Jr.) (I, GP)
  __GPI 335: Globalization and Development (req. Jr.) (I)
  __GPI 361: People Envir. and Dev. in the Amazon (req. Jr.) (I)
  __HTM 368: Geotourism (req. Jr., HTM 202) (I)
  __SOC 351: Urban Sociology (req. 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 (req. Jr.) (I) **pending**
  __ENS 311: To Bee or Not to Bee; Honey Bees and Social Impact
  __GPI 362 Farmers, Crops, and Our Challenging Ag. World (req. Jr.) (I, GP, SFS)
  __GPI 363: World Forests and Their Use (req. Jr.) (I)
  __HNR 203: Food for Thought I (req. Honors College, previous HNR course)
  __LIB 342: Food Matters (req. Jr.) (I, SFS)
  __SOC 351: Urban Sociology (SFS)

II. Physical and Life Science Perspectives
  __BIO 319: Global Agricultural Sustainability (req. Jr., completion of gen. ed. Life Sc.) (I, SFS)
  __NRM 281: Principles of Soil Science (req. CHM 109 or CHM 115) (SFS)

III. Political and Economic Perspectives
  __GPI 345: Geography and Land Use Management of MI and the Great Lakes Area
  __GPI 361: People, Envir, and 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
  __GPI 363: World Forests and Their Use (req. Jr.) (I)
  __HST 323: Michigan History
  __IDS 350: Climate Change Conversations and Collaboration for Our Future
  __LIB 330: Ideas of Nature (req. Jr.) (I)

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

III. Political and Economic Perspectives
  __ECO 345: Environmental and Resource Economics (req. Jr., ECO 200 or 211, Seidman Permit) (I)
  __NRM 451: Natural Resource Policy (req. 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 (preq. Jr., WRT 150) (I)
   __HST 323: Michigan History

II. Physical and Life Science Perspectives
   __BIO 107: Great Lakes and Other Water Resources
   __BIO 215: General Ecology (preq. 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 (preq. 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
   ____ENS 490: Internship (preq. Jr., ENS 201)
   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 (3 cr.) (preq. 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.) (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. 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.

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TOTAL NUMBER OF CREDITS________