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)

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
___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 Enviornment (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.)
__SOC 288: Sociology of Food (SFS)

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
__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)
__HNR 203: Food for Thought I (preq. Honors College, previous HNR course)
__LIB 342: Food Matters (preq. Jr.) (I, SFS)
__SOC 351: Urban Sociology (preq. Jr., SOC 101) (I)

II. Physical and Life Science Perspectives
__BIO 319: Global Agricultural Sustainability (preq. Jr., completion of gen. ed. Life Sc.) (I, SFS)
__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

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)
__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

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 ___ENS 490: Internship (req. 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.) (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.

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TOTAL NUMBER OF CREDITS______________

5/14/19