Brooks College of Interdisciplinary Studies

Environmental and Sustainability Studies Major, B.A., B.S. (2023-2024)

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

Contact the ENS Program at ens@gvsu.edu or (616) 331-8016.

Contact the ENS Program at ens@gvsu.edu or (616) 331-8016. How to Declare a Major/Minor * General Education Requirements * ENS Course Offerings * Approved ENS Subs * Faculty/Staff Directory Name: G#:_____Anticipated Grad:____ Advisor: Last Updated Date: **CORE COURSES: All required** (9 credits) ENS 201: Introduction to Environmental and Sustainability Studies (SFS) ENS 300: Principles of Sustainability (preg. ENS 201)(SWS) ENS 301: Methods for Interdisciplinary ENS (preg. ENS 201, Jr. recommended)(SWS) **KEY GP** = Cultures: Global Perspectives **TECHNICAL SKILLS** (3-4 credits) Choose one course from the following: **HA** = Foundations: Historical Analysis ENS 305: Sustainability Assessment and Reporting (preq. ENS 201) **I-G** = Issues: Globalization GPY 200: Computer Cartography (preq. MTH 110) (MS, TS+BS) **I-H** = Issues: Health GPY 307: Introduction to Geographic Information Systems (TS+BS) **I-IIT** = Issues: Info/Innovation/Tech. GPY 370: Introduction to Remote Sensing (TS+BS) **I-S** = Issues: Sustainability NRM 250: Resource Measurement and Maps **LS** = Foundations: Life Sciences PHO 171: Photography 1 (4 cr.) **MS** = Foundations: Math Sciences STA 301: Questionnaire Design and Execution (preg. STA 215 or 312) (TS+BS) **PS** = Foundations: Physical Sciences STA 311: Introduction To Survey Sampling (preg. STA 216) **SBS** = Foundations: Social/Behav. Sci. **SFS** = Sustainable Food Syst. Certificate STA 341: Demographic Methods (preq. Jr., STA 215 or 312) (I-G) **SWS** = Supplemental Writing Skills WRT 200: Introduction to Professional Writing (preq. WRT 130 or 150)(SWS) **TS+BS** = Fulfills Technical Skills WRT 253: Document Production and Design (preg. WRT 130 or 150) elective & BS degree requirement WRT 350: Business Comm. (preq. WRT 130 or 150)(SWS) **US** = Cultures: U.S. Diversity Check here if course substitution **TRIPLE BOTTOM LINE OVERVIEW COURSES** (9 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 Perspectives – II. Physical and Life Science Perspectives – The arts, humanities, and social sciences create, interpret, and analyze cultural Knowledge from the physical and life sciences defines the context narratives that influence humans' interactions with their environments. and limits of humans' interactions with their environments. ANT 340: Culture/Envir. (preq. Jr, WRT 130 or 150, HA or US)(I-S, GP) _BIO 105: Environmental Science (LS) ART 423: Animals in Art (preg. Jr.) ENS 310: How the Living Earth Works BIO 338: Environmental Ethics (preg. Jr., WRT 130 or 150)(I-S, SWS) (preq. Jr.) (I-S) ENG 382: Literature & Envir. (preg. Jr., WRT 130 or 150) (I-S, SWS) -GPY 100: Physical/Environmental Geography ENS 311: To Bee or Not to Bee: Honey Bees and Social Impact NRM 330: Environmental Pollution HST 323: Michigan History (preq. CHM 109 or CHM 116) INT 330: The Idea of Nature (preg. Jr.) (I-S) PNH 360: Voluntarism & Non-Profit Sector PSY 362: Environmental Psychology Check here if Check here if course substitution 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: Envir. Resource Economics NRM 451: Natural Resource Policy (preg. Jr. & NS) (I-S) (preg. Jr., ECO 200 or 211, Seidman permit) (I-S) OSH 414: Environmental Safety and Health Regulations GPY 361: People, Envir., Dev. in the Amazon (preg. Jr.) _PLS/ENS 303: Intro to U.S. Envir. Policy (preq. Jr.) (I-S) INT 322: Wicked Problems of Sustain. (preq. Jr.) (I-S) PLS 314: International Law (preg. Jr. or PLS 211) NRM 150: Introduction to Natural Resources PNH 307: Local Politics and Administration (preg. Jr.) Check here if course substitution **SYNTHESIS AND APPLICATION (5 credits)** ENS 401: Environmental Problem Solving (Capstone) (3 cr.) (preg. Jr., ENS 201)

ENS 491: Practicum (minimum 2 cr.)

ENS 490: Internship (minimum 2 cr.)

OR

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	Focus Area: Energy	
Complete the required food safety course and one course from each	Complete one course from each perspectives	list; No course
perspectives list; No course may count as both a Focus Area course	may count as both a Focus Area course and a	ı Triple Bottom
and as a Triple Bottom Line course.	Line course.	
Requirement: Food Safety	I. Social and Cultural Perspectives	
HTM 201: Good Food Gone Bad- Food Safety (1 cr.) (SFS)	GPY 363: World Forests and Their Use ((nuag In) (I C)
OR	HST 323: Michigan History	preq. Jr.) (1-3)
HTM 250: Food Production and Kitchen Management (4 cr.)(SFS)	——INT 330: The Idea of Nature (preq. Jr.) ((I-S)
	Transfer and trans	/
I. Social and Cultural Perspectives	II. Physical and Life Science Perspectives	
ART 423: Animals in Art (preq. Jr.)	BIO 105: Environmental Science (LS)	
ENS 311: To Bee or Not to Bee; Honey Bees and Social Impact	BIO 215: General Ecology (4 cr.)	
GPY 362 Farmers, Crops, and Our Challenging Ag. World	(preq. BIO 120 or CMB 155 & CMB 156	
(preq. Jr.) (I-G, GP, SFS)	EGR 360: Thermodynamics (preq. PHY	
GPY 363: World Forests and Their Use (preq. Jr.) (I-S)	admitted to electrical, interdisciplinary, i	mechanical, or
INT 342: Food Matters (preq. Jr.) (I-H, SFS)	product design engineering major)	
SOC 288: Sociology of Food (SFS)	GPY/ENS 412: Global Climate and Envi	_
II. Physical and Life Science Perspectives	(preq. Jr., GPY 100 or ENS 201 or NS co.	urse) (1-3)
BIO 319: Global Agricultural Sustainability	III. Political and Economic Perspectives	
(preq. Jr, completion of Foundations Life Sci) (I-S, SFS)	ECO 345: Environmental and Resource I	Economics
ENS 392: Sustainable Agriculture: Ideas/Tech (preq. Jr.)(I-S, SFS)	(preq. Jr., ECO 200 or 211, Seidman Per	
NRM 281: Principles of Soil Science (4 cr.)	EGR 406: Renewable Energy: Structure/	, , ,
(preq. CHM 109 or 115) (SFS)	(preq. Jr., STA 215 or 200 or 312)	, ,
	NRM 451: Natural Resource Policy	
III. Political and Economic Perspectives	(preq. Jr., completion of NS or permission	n) (I-S)
GPY 345: Geography/Land Use Management of MI /GreatLakes		
GPY 361: People, Envir., & Dev. in the Amazon (preq. Jr.)		
Check here ifcourse substitution		Check here if course substitution
Focus Area: Water Resources		
Complete one course from each perspectives list; No course may count a	s both a Focus Area course and as a Triple Bott	om Line course.
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I. Social and Cultural Perspectives		
BIO 338: Environmental Ethics (preq. Jr., WRT 130 or 150) (I-S, SV	VS)	
HST 323: Michigan History		
INT 330: The Idea of Nature (preq. Jr.) (I-S)		
II. Physical and Life Science Perspectives		
BIO 107: Great Lakes and Other Water Resources (4 cr.) (LS)		
BIO 215: General Ecology (4 cr.) (preq. BIO 120, or CMB 155 & C.	MB 156. BIO 121: BIO 120 may be taken concu	rrently)
GEO 105: Living with the Great Lakes (PS)	,,	
HI D.P.C. Land France C. D		
III. Political and Economic Perspectives	I -l A	
GPY 345: Geography and Land Use Management of MI and the Green NRM 451: Network Processing Policy (pure In completion of NS and		
NRM 451: Natural Resource Policy (preq. Jr., completion of NS or p OSH 414: Environmental Safety and Health Regulations	germission) (1-8)	
OSTI 414. Environmental Safety and fleatur Regulations		Check here if
		course substitution

Focus Area: Culture and the Built Environment Complete one course from each perspectives list; No course may count		COURSE SUBSTITUTIONS If an approved course is accepted as a substitution to
as both a Focus Area course and as a Triple Bottom Line course.		fulfill a requirement for the ENS major, please specify.
I. Social and Cultural Perspectives ANT 340: Culture/Envir (preq. Jr., WRT 130 or 150, HA or US)(I-S,GP) ENG 382: Literature & Envir. (preq. Jr., WRT 130 or 150) (I-S, SWS) GPY 410: Landscape Analysis and Green Infrastructure (preq Jr.)		is substituting for:
HST 320: American Indians HST 327: History of United States Urban Society SW 150: Intro to Social Work & Social Welfare (SBS) WGS 335: Women, Health and the Environment (preq. Jr.) (I-S)		is substituting for:
II. Physical and Life Science Perspectives EGR 306: Urban Sustainability (preq. Jr., MTH 110) (I-S) GPY 312: Urban and Regional Environmental Planning		is substituting for:
NRM 330: Environmental Pollution (preq. CHM 109 or 116)		NOTES.
III. Political and Economic Perspectives CJ 370: Environmental Crime and Justice (preq. Jr.) GPY/PNH 324: Urbanization (preq. Jr.) (I-S, GP) GPY 335: Globalization and Development (preq. Jr.) (I-G) GPY 361: People, Envir., & Dev. in the Amazon (preq. Jr.) HTM 368: Geotourism (preq. Jr., HTM 202) (I-S)		NOTES:
SOC 351: Urban Sociology (preq. Jr., SOC 101) (I-S, SW	<i>'</i>	
	heck here if rse substitution	
DEGREE REOUIREMENTS (Select from B.A. or B.S. Option)		
B.A. 3rd semester proficiency in a foreign language:	B.S. Candidates for the B.S. must complete the following:	
201 Course	STA 215: Introductory Applied Statistics (3 cr.)	
OR	(preq. MTH 110 or equivalent) (MS) OR	
Pass Proficiency Exam	GPY 200: Computer Cartography (3 cr.) (preq. MTH 110) (MS)	
TOTAL NUMBER OF CREDITS:	AND one of the following (3 cr.): AHS 301: Intro to Health Care Research (preg. STA 215)	
 GRADUATION REQUIREMENTS Complete 2 Supplemental Writing Skills (SWS) courses Obtain a minimum of 120 credits Complete 58 credits at a senior institution Last 30 consecutive credits must be completed at GVSU Earn a cumulative GPA of at least 2.0 Submit an Application for Undergraduate Diploma 	GPY 307: Introduction to Geographic Info Systems (TS+BS) GPY 370: Introduction to Remote Sensing (TS+BS) 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) (SWS)	
***This form is a planning tool and does not constitute an agreement regarding program requirements. Download a fillable version of this curriculum guide at www.gvsu.edu/ens/major	AND one of the following (3 cr.): GPY 407: Advanced GIS (4 cr.) (preq. GPY 307) GPY 470: Digital Image Processing (preq. GPY 370) STA 216: Intermediate Applied Statistics (preq STA 215 or 312) STA 301: Questionnaire Design and Execution	
Brooks College Advising Center 260 Lake Michigan Hall • (616) 331-8200 brooksadvising@gvsu.edu www.gysu.edu/brooksadvising	(preq. STA 215 or 312) (TS+BS) 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) (I-IIT)	

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