

**UNIVERSITY OF NORTHERN IOWA
CERTIFICATE IN SUSTAINABILITY REQUIREMENTS LIST 2020**

Course number (semester)	Title	Semester offered	Instructor	Credit hours	pre-reqs?
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1. **Sign up** in your department using the 'Declaration of Curriculum' form to **ADD** the Program Certificate: Sustainability
2. **Take** 1 Required + 4 Electives (**must pick from at least 3 Content Streams**) using your **College Advisor's** guidance
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1. TAKE THE REQUIRED INTRO CLASS

TECH 1015	Introduction to Sustainability	Fall, Spring	Brian Rumsey	3	None, satisfies LAC requirement Category 4B
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- 2. PICK 4 ELECTIVES**
- Take no more than 2 from one Content stream.
 - Overall selection must cover at least 3 Content Streams
 - Take a look at the pre-requisites needed before making a selection

Content Stream 1: Natural and Biological Environments

BIOL 3100	Evolution, Ecology and the Nature of Science	Fall and Spring	Mark Myers, Jim Demastes, Peter Berendzen, Steve O'Kane, Jeff Tamplin		BIOL 2051 (840:051); BIOL 2052 (840:052); CHEM 1110 (860:044) and CHEM 1120 (860:048), or CHEM 1130 (860:070). BIOL 3100 (840:100) and BIOL 3140 (840:140) cannot be taken concurrently.
BIOL 4167/5167	Conservation Biology	Even Falls	Mark Myers	3	
BIOL 4159/5159	Biodiversity Conservation Policy	Spring	Mark Myers	3	BIOL3100; BIOL 3140; junior standing (Discuss "hidden" pre-reqs BIOL 2051 and BIOL 2052)
BIOL 4105/5105	Wildlife Ecology & Management	Fall	Mark Myers	3	BIOL3100; BIOL 3140; junior standing
EARTHSCI 1300	Introduction to Geology	Fall and Spring	C. Heinzl/ M. Iqbal	4	
EARTHSCI 1400	Introduction to Environmental Earth Science	Fall	C. Heinzl	3	None
GEOG 2210	Recent Climate Change	Fall	Dave May	3	
GEOG 3310	Geographic Information Systems I	Fall	Andrey Petrov	3	
GEOG 4310/5310	GIS Applications (Variable Topic)	Spring	Andrey Petrov	3	
HPE 4665/5665	Environmental Health Science	Fall	Catherine Zeman	3	junior standing. (Same as ENV SCI 4665/5665 (830:165g))

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HPE 4667/5667	Human Toxicology for Environmental and Occupational Health: Principles and Applications	Spring	Catherine Zeman	3	BIOL 2051 (840:051) ; BIOL 2052 (840:052) ; CHEM 1110 (860:044) ; CHEM 1120 (860:048) ; junior standing.
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Content Stream 2: Mathematical and Economic Dimensions of Sustainability

STAT 3771/5771	Applied Statistical Methods for Research	Fall/ Spring	Mark Ecker	3	STAT 1774 or STAT 1772; junior-standing
ACC 2130	Introduction to Managerial Accounting	Fall and Spring	Lee Wang, Michelle Hovenga, Lee Nicholas and Eric Lee*	3	Sophomore standing; C- or better in Acct 2120 (Note: Acct 2120 is part of Business Core)
ACC 3130	Cost Accounting	Fall	Eric Lee*	3	Junior standing; Acct 2120; Acct 2130 (which requires C- or better in ACCT 2120). (Note: Acct 2120 and 2130 are part of the Business Core.)
ECON 3225	Environmental Economics	Fall	Alicia Rosburg	3	Econ 1041, Econ 1051, junior-standing (waivers subject to instructor and department head consent; prereqs are part of the Business Core)
MGMT 3167	Global Strategic Supply Management	Spring	Andy Anderson	3	ACCT 2120; ACCT 2130 (requires C- or better in ACCT 2020); MGMT 2080; STAT 1772 or equivalent; ECON 1011; ECON 1021; Junior standing. MGMT 3154 (which requires CBA Admittance) (Note: all prereqs are part of the Business Core)
MKTG 3163	Distribution and Logistics	Fall	Karthik Iyer	3	MKTG 2110; ECON 1031 or ECON 1041; junior-standing (Note: MKTG 2110 and Econ 1041 are part of the Business Core; Econ 1031 is part of the LAC)
BIOL 4157/ 5157	Biostatistics	Fall	Kenneth Elgersma	3	MATH 1140 or MATH 1120 and MATH 1130 or MATH 1420 or equivalent; BIOL3100; BIOL 3140; junior standing

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TEXDSGN 3011	Fashion Trend Analysis		Annette Lynch	3	TEXDSGN 1004.
Content Stream 3: Urban Environments and Technology					
CAP 3140	Environment, Technology, and Society	Fall, Spring and Summer	Ali Kashef Laura Jackson Ai Wen Kamyar Enshayan Chad Heinzl	2 or 3	student must have satisfied university entrance requirements in English and Mathematics; completion of both Liberal Arts Core Life Sciences and Physical Sciences requirements; junior standing.
EARTHSCI 3400	Natural Resources and Civilizations	Fall, Spring, Summer	Chad Heinzl	3	Junior standing
GEOG 3220	Environmental Geography	Variable	Dennis Dahms	3	GEOG 1120 (970:010) or GEOG 1210 (970:026) or GEOG 2210 (970:028) or GEOG 1110 (970:040) or consent of instructor.
GEOG 4170/ 5170	Regional Analysis and Planning	Spring	Alex Oberle	3	Junior Standing
GEOG 4250/5250	Laboratory Methods in Environmental Geography	Spring	Dennis Dahms	3	EARTHSCI 1300 (870:031) or GEOG 1210 (970:026) ; junior standing.
INTDSGN 1001	Introduction to Interior Design	Fall	Gloria Stafford Anne Farniok	3	
PHYSICS 4300/5300	Introduction to Electronics	Fall	Tim Kidd	4	PHYSICS 1512 (880:056) or PHYSICS 1702 (880:131) ; MATH 1421 (800:061) ; junior standing.
PHYSICS 4310/5310	Physical Computing	Odd Springs	Tim Kidd	3	PHYSICS 1511 (880:054) and PHYSICS 1512 (880:056) , or PHYSICS 1701 (880:130) and PHYSICS 1702 (880:131) ; junior standing.
TECH 3102/ CAP 3102	Living in Our Techno-Social World	Fall, Spring and Summer	Doug Hotek Ali Kashef	3	
TECH 3180	Lean and Sustainable Manufacturing	Spring	Nilmani Pramanik	3	TECH 3143 ; MATH 1150 (800:048) or MATH 1420 (800:060) or STAT 1772

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					(800:072); junior standing or consent of instructor.
TECH 1010	Metal Removal Processes	Fall and Spring	Rukmini Revuru	3	
TECH 3148	Machine Design	Fall	Rao Posinasetti	3	MATH 1150 or MATH 1420; PHYSICS 1511 or 1701; TECH 2080; junior standing or consent of instructor

Content Stream 4: Sustainable Tourism and Outdoor Recreation

LYHS 4554/5554	Managing Recreation Impacts on the Natural Environment	Fall	Kathy Scholl	3	Junior standing
LYHS 4778/7778	Community Based Tourism	Spring	Oksana Grybovych	3	Junior standing
LYHS 4776/6776	Eco, Adventure and Sport Tourism	Fall	Oksana Grybovych	3	LYHS 2770 (430:070) or consent of instructor; junior standing.

Content Stream 5: Teacher Education in Sustainability and Environmental Literacy

ENGLISH 4199	Rhetoric, Science, and Community Engagement		David Grant	3	
LYHS 4552/5552	Theory and Practice of Experiential Education	Spring	Kathy Scholl	3	Junior Standing
INSTTECH 1031	Educational Technology and Design	Fall, Spring, Summer	Leigh Zeitz	3	None

Content Stream 6: Social, Philosophical, and Political Dimensions of Sustainability

HISUS 4170/5170	U.S. Environmental History	variable	B. Cutter/ B Roberts	3	Junior Standing
HPE 4666/5666	Environmental and Occupational Health Regulations	Spring, odd years	Catherine Zeman	3	junior standing. (Same as ENV SCI 4666/5666 (830:166g))
HUM 1023	The Age of the Revolution to the Present	Fall, Spring, Summer	Yasemin Sari	3	None
POL AMER 1048	Introduction to Public Administration	Fall and Spring	Jayme Renfro	3	None
PHIL 1020	Philosophy, the Art of Thinking	Fall, Spring, Summer	Yasemin Sari, Francis Degnin	3	None
CAP 3173/ PHIL/ RELS 3510	Bioethics	Fall and Spring	Francis Degnin	3	junior standing. (Same as RELS 3510 (640:173) and PHIL 3510 (650:173))
PHIL/RELS 2550	Environmental Ethics	Spring	Abbylynn Helgevold	3	(Same as PHIL 2550)

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CAP 3103	Multidisciplinary Perspectives on Genocide	Fall	Stephen Gaies	3	Junior Standing
CAP 3144	Genocide in Writing and Film	Spring	Stephen Gaies	3	Junior Standing. (Same as ENGLISH 3144)
CAP 3550	Constructing Cross-Cultural Bridges (Study Abroad)	May tern	Gowri Betrabet Gulwadi/ Michael Fleming	3	junior standing. (Same as TESOL 3550)
ENGL 4110/5110	Environmental Literature	Variable	Jeremy Schraffenberger David Grant	3	ENG 2120 or consent of instructor; junior standing

TOTAL CERTIFICATE HOURS				14 to 15	
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- Upon completion of all courses in the Certificate, contact Prof. Betrabet at betrabet@uni.edu to obtain the formal for a Final Reflection
- Submit a list of courses you eventually took along with semester and the grade earned, and the Final Reflection.
- If any course substitutions are needed, she will process it for you - but you must meet with her to get this done.
- Your successful completion will be notified to the Registrar's office

Some courses are multi-section, or are not taught every year by the same instructor. Credit for the Certificate only valid for sections taught by instructors listed here. Some of these courses may have pre-requisites or other requirements as listed. Consult your College Advisors during your planning. Some courses may be offered in semesters other than mentioned here. Work with your advisor to get the option that is best for you.

COLLEGE ADVISORS

College of Humanities Arts and Sciences

David Grant david.grant@uni.edu
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Coordinator for Certificate

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