

# ENVIRONMENTAL AND SUSTAINABILITY STUDIES

## BACHELOR OF SCIENCE

Environmental Sustainability is a field that focuses on how societies can meet the needs of the present without compromising the ability of future generations to meet their own needs. The Bachelor of Science in Environmental and Sustainability Studies program is designed to produce graduates that have both the knowledge and skills to address environmental and social crises. Complex issues, such as renewable energy, climate change, recycling, and environmental security, requires an interdisciplinary education that weaves together science and social science disciplines. Graduates of this program are well prepared for careers in all levels of government, non-governmental organizations, and businesses.

### Program Course Requirements

Click here to view Core IMPACTS General Education Curriculum requirements (<http://catalog.daltonstate.edu/programs/coreimpacts/>).

#### Program Advice (can share with CORE curriculum):

MATH 1113	Precalculus Mathematics (Required)	3
MATH 1401	Elementary Statistics (Required)	3
LAB SCIENCE SEQUENCE REQUIRED		8
PHYS 1111K & PHYS 1112K	Introductory Physics I and Introductory Physics II (Option 1)	
PHYS 2211K & PHYS 2212K	Principles of Physics I and Principles of Physics II (Option 2)	
GEOL 1121K	Principles of Geology (Option 3 - choose 2 courses)	
or GEOL 1122K	Historical Geology	
or GEOL 1131K	Geology & the Environment	
Recommended for Social Science electives		6
ANTH 1103	Intro to Cultural Anthropology	
or GEOG 1100	Introduction to Geography	
or GEOG 1101	Intro to Human Geography	
or GEOG 1111	Intro to Physical Geography	

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#### Core IMPACTS General Education Curriculum requirements 42

NOTE: Core IMPACTS courses can also satisfy requirements in your Program of Study. Please review the requirements for your major to prevent taking extra courses. The USG Core IMPACTS curriculum is designed to ensure that students acquire essential knowledge in foundational academic areas and develop career-ready competencies. There are seven Core IMPACTS areas. Students at all USG institutions must meet the Core IMPACTS requirements in all specified areas.

#### Field of Study: Major Related

BIOL 1107K	Principles of Biology I	4
BUSA 2106	The Environment of Business	3
CHEM 1211K	Principles of Chemistry I	4
CHEM 1212K	Principles of Chemistry II	4
SUST 2000	Intro Envir Sustainability	3

#### UPPER LEVEL REQUIREMENTS (Grades of C or higher required)

Environmental and Sustainability Core		
BIOL 1108K	Principles of Biology II	4
ECON 2105 or ECON 2106	Principles of Macroeconomics Principles of Microeconomics	3
SUST 3000	Political Ecology	3
SUST 3500	Environ Policies, Rules & Regu	3
SUST 4000	Senior Seminar	2
SUST 4100	Water Resources	3
SUST 4200	Energy Sustainability	3
SUST 4300	Waste and Recycling	3
<b>SUST Electives (Choose 3 courses)</b>		<b>9</b>
SUST 3100	Environmental Security	
SUST 3200	Sustainable Cities	
SUST 3300	Climate and Society	
SUST 3400	Sustain. Transport & Mobility	
SUST 4900	Spec Top Envir. Sustainability	
<b>STM Electives ***</b>		<b>27</b>
<b>Students are strongly encouraged to choose appropriate STM electives to earn a minor in Biology or Chemistry.</b>		
BIOL 2270	Ethical Issues in Science	
BIOL 3150	Science and Society	
BIOL 3500K	Ecology	
BIOL 3510K	Plant Biology	
BIOL 3520K	Invertebrate Zoology	
BIOL 3530K	Freshwater Ecology	
BIOL 3550	Conservation Biology	
BIOL 3600K	Ornithology	
BIOL 3650K	Herpetology	
BIOL 3700	Field Biology Techniques	
BIOL 4250	Evolution	
BIOL 4275	Bioremediation	
BIOL 4600	Ecotoxicology	
BIOL 4800	Service Learning in Biology ***	
BIOL 4860	Internship in Biology ***	
BIOL 4960	Research in Biology ***	
CHEM 3211K	Organic Chemistry I	
CHEM 3212K	Organic Chemistry II	
CHEM 3311K	Quantitative Analysis	
CHEM 3500	Biochemistry	
CHEM 3700K	Environmental Chemistry	
CHEM 4800	Service Learning in Chemistry ***	
CHEM 4860	Internship in Chemistry ***	
CHEM 4960	Research in Chemistry ***	
DATA 3355	Data Mining	
DATA 3502	Data Architecture	
DATA 3505	Data Management	
DATA 3508	Data-Driven Decision Making	
GEOL 1110	Environmental Hazards	
HIST 3960	Special Topics in US History **	
MATH 2253	Calculus and Analytic Geom I	
MATH 2254	Calculus and Analytic Geom II	

MATH 3050	Biological Statistics
SUST 3100	Environmental Security
SUST 3200	Sustainable Cities
SUST 3300	Climate and Society
SUST 3400	Sustain. Transport & Mobility
SUST 4860	Internship Environmental Susta ***
SUST 4900	Spec Top Envir. Sustainability
SUST 4960	Research: Environ Sustainabili ***

Any 3000 or 4000 level BIOL, CHEM, or MATH course EXCEPT  
BIOL 4000, CHEM 4000, MATH 3703, MATH 3803, and MATH 4713.

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**Total Hours** **120**

\*\* HIST 3960 is allowed only when the topic is Environmental History. If this course is taken, please notify the Registrar's Office so credit can be applied toward your program of study.

\*\*\* Students are limited to a maximum of eight credit hours in applied learning courses (BIOL 4800, CHEM 4800, BIOL 4860, CHEM 4860, SUST 4860, BIOL 4960, CHEM 4960, SUST 4960). Students are limited to a maximum of four credit hours in any one of the three applied learning categories: service learning (BIOL 4800, CHEM 4800), internships (BIOL 4860, CHEM 4860, SUST 4860), and research (BIOL 4960, CHEM 4960, SUST 4960).