

# ENVIRONMENTAL AND SUSTAINABILITY STUDIES

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.

## Area A: Essential Skills

ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
MATH 1113	Precalculus Mathematics	3

## Area B: Institutional Options

COMM 1110	Fundamentals of Speech	3
One of the following electives:		1

COMM 1120	Argumentation and Advocacy	
ENGL 1105	Intro to Greek Mythology	
ENGL 1110	Creative Writing	
GEOL 1000	Natural Hazards (Recommended)	
HLTH 1030	Health and Wellness Concepts	
HIST 1050	Appalachian Hist-Special Topic	
HIST 1051	Sports Hist & Amer Character	
HUMN 1000	Mystery Fiction in Pop Culture	
HUMN 1100	Political and Social Rhetoric	
HUMN 1300	Christian Fiction/Pop Culture	
SOCI 1000	Race and Ethnicity in America	
PRSP Elective (See advisor)		

## Area C: Humanities/Fine Arts

Choose one or two ENGL course(s) 3-6

ENGL 2000	Topics in Literature & Culture	
ENGL 2111	World Literature I	
ENGL 2112	World Literature II	
ENGL 2120	British Literature I	
ENGL 2121	British Literature II	
ENGL 2130	American Literature I	
ENGL 2131	American Literature II	
ENGL 2201	Intro to Film as Literature	

If only one ENGL course chosen, add one of the following: 0-3

ARTS 1100	Art Appreciation	
HUMN 1201	Expressions of Culture I	
HUMN 1202	Expressions of Culture II	
MUSC 1100	Music Appreciation	
MUSC 1110	World Music	
MUSC 1120	American Music	
THEA 1100	Theatre Appreciation	

## Area D: Science/Mathematics/Technology

GEOL 1121K	Principles of Geology	4
GEOL 1131K	Geology & the Environment	4
MATH 1401	Elementary Statistics	3

## Area E: Social Sciences

HIST 2111	United States History to 1877	3
or HIST 2112	United States Hist since 1877	
POLS 1101	American Government	3
Two of the following electives:		6

ANTH 1103	Intro to Cultural Anthropology (Recommended)	
ECON 2105	Principles of Macroeconomics	
ECON 2106	Principles of Microeconomics	
GEOG 1100	Introduction to Geography (Recommended)	
GEOG 1101	Intro to Human Geography (Recommended)	
GEOG 1111	Intro to Physical Geography (Recommended)	
HIST 1111	World Civilization to 1500 CE	
HIST 1112	World Civilization since 1500	
HIST 2111	United States History to 1877	
HIST 2112	United States Hist since 1877	
PHIL 1103	Intro to World Religions	
PHIL 2010	Intro to Philosophical Issues	
PHIL 2020	Logic and Critical Thinking	
POLS 2101	Intro to Political Science	
POLS 2201	State and Local Government	
POLS 2301	Comparative Politics	
POLS 2401	International Relations	
PSYC 1101	Introduction to Psychology	
PSYC 2101	Psychology of Adjustment	
PSYC 2103	Human Development	
SOCI 1101	Introduction to Sociology	
SOCI 1160	Social Problems	

## Area F: 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

## Major Requirements

BIOL 1108K	Principles of Biology II	4
CHEM 3211K	Organic Chemistry I	4
CHEM 3212K	Organic Chemistry II	4
CHEM 3311K	Quantitative Analysis	4
CHEM 3700K	Environmental Chemistry	4
ECON 2105	Principles of Macroeconomics	3
or ECON 2106	Principles of Microeconomics	
SUST 3000	Political Ecology	3
SUST 3500	Environ Policies, Rules & Regu	3
SUST 4000	Senior Seminar	3
SUST 4100	Water Resources	3
SUST 4200	Energy Sustainability	3

SUST 4300	Waste and Recycling	3
<b>Major Electives</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>11</b>
BIOL 2270	Ethical Issues in Science	
BIOL 3500K	Ecology	
BIOL 3520K	Invertebrate Zoology	
BIOL 3550	Conservation Biology	
BIOL 3700	Field Biology Techniques	
BIOL 4275	Bioremediation/Phytoremediatio	
BIOL 4600	Ecotoxicology	
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	
<b>Physical Education</b>		
PHED Activity Elective		1
<b>Total Hours</b>		<b>121</b>

\* SUST 2000 is the pre-requisite for all SUST courses and must be successfully completed before taking other SUST courses.