



PHILADELPHIA UNIVERSITY

SCHOOL OF  
LIBERAL ARTS



## ENVIRONMENTAL SUSTAINABILITY

Sustainability involves balancing the needs of human societies with the health of the ecosystems that surround and support them. It also challenges us to behave ethically across generations: how can today's societies meet their needs without compromising the ability of future generations to meet theirs?

This challenge is growing sharper every day: by the middle of this century, we can expect the human population of our planet to have increased by 50%, to a total of about 9 billion people. Rapid population and economic growth is producing a number of related concerns: global warming, dwindling oil supplies, extreme weather events, shrinking water supplies, and the accelerating resource requirements of developing nations like India and China. This combination of issues calls for a new category of experts who can develop and implement the strategies we need to reach a state of sustainability.

Designing a sustainable operation, whether at the local, national or global level, requires a comprehensive approach that understands the political, cultural, scientific, economic, and technological context of the relationship between humans and their ecosystems. Sustainability professionals need to be able to think across these different areas and speak to a variety of experts and audiences in their own "languages."

The Bachelor of Science in Environmental Sustainability equips students with the skills and vocabularies to bridge the multiple disciplines - architecture, design, business, engineering, and policymaking - necessary to produce environmentally sustainable operations for communities, businesses, and organizations. This program produces creative problem-solvers with the interdisciplinary training necessary to build the sustainable societies of the future.

- Growing numbers of corporations, cities, and universities are employing sustainability experts for positions such as environmental coordinator and sustainability manager.
- Environmental sustainability professionals can expect to build careers in local, state, and federal environmental agencies, utility companies, non-profit environmental organizations, wildlife and conservation agencies, environmental consulting and auditing, "green" contracting and construction management, and educational work in schools, museums, and parks.
- Studying environmental sustainability develops scientific and social science skills that can be applied to graduate training in a variety of fields: law, public policy, education, business, natural resource management, etc.



POWER TO DO.



CURRICULUM

# ENVIRONMENTAL SUSTAINABILITY



**FIRST YEAR**

<u>College Studies</u>		
WRTG-101	Writing Seminar I	3
HIST-11x	Historical Understanding I	3
BIOL-103	Biology I	4
<u>Quantitative Reasoning I + II</u>		6-8
MATH-100/101 + MATH-103 Finite Math + Introduction to Calculus or		
MATH-102 + MATH-103 Pre-Calculus + Introduction to Calculus or		
MATH-102 + MATH-111 Pre-Calculus + Calculus I or		
<u>Major Core</u>		
SUST-100	Introduction to Sustainability	3
SUST-121	The Environment and World Cultures	3
SUST-120	Sustainable Food Chains	3
MKTG-102	Principles of Marketing	3
Biol-104/104L	Biology II	3
<u>Physical Education</u>		
PE-XX	Physical Education	.5
PE-XX	Physical Education	.5
Credit Total		32-33

**SECOND YEAR**

<u>College Studies</u>		
CHEM-103	Chemistry I	4
SOC-2xx	Social Sciences I	3
	Language or Area Studies	3
WRTG-21x	Writing Seminar II	3
ARTS-1xx	Arts & Cultures	3
<u>Major Core</u>		
	Global Environmental History*	3
	Energy Systems and Politics	3
	Sustainable Planning and Land Use	3
	Sustainable Marketing	3
MGMT-301	Principles of Management	4
ECBIO-101	Environmental Issues	3
Credit Total		31

**THIRD YEAR**

<u>College Studies</u>		
	Language or Area Studies	3
	Humanities I	3
	Junior Seminar*	3
	Junior Seminar*	3
<u>Major Core</u>		
	Sustainable Technologies for Architecture	3
	Industrial Ecology	3
ECBIO-201	Biodiversity	3
	Global Environmental History	3
	Internship or Designated Elective	3
	Free Elective	3
Credit Total		30

**FOURTH YEAR**

<u>College Studies</u>		
COLLST-499	Contemporary Perspectives*	4
<u>Major Core</u>		
	Environmental Politics and Policymaking	3
	Sustainability in the Developing World	3
	Managing Sustainable Organizations	3
ECBIO-415	Natural Resource Management	3
	Sustainability Capstone*	3
	Internship or Designated Elective	3
	Free Elective	3
	Free Elective	3
	Free Elective	3
Credit Total		31

**DEGREE TOTAL 124-126**

\* denotes writing intensive (WI) course

**Program Highlights**

- The only environmental program in the region with training across multiple professional fields: architecture, public policy, business, engineering, international relations, and natural resource management.
- Internship opportunities and multiple elective courses allow students to gain professional experience before graduation and to customize their major according to their career objectives.
- Strong training in both the sciences and social/political issues gives students a breadth of skills and positions them for graduate study in law, business, public policy and other fields.

