Environmental Studies: Sustainable Food Production

Environmental Studies *is an interdisciplinary program that investigates interactions between humans and their environment. This includes physical and biological aspects in addition to the highly modified human-made environments such as urban and agricultural systems.*

The concentration prepares students to launch a successful sustainable agriculture production enterprise or for employment in the organic and sustainable food industry, in global, national and state governmental agencies, and in non - governmental organizations promoting sustainable food production.

Required Courses

Environmental Core:
ENVS 201 – Foundations in Environmental Science I
ENVS 201L - Foundations in Environmental Science I Lab
ENVS 202 - Foundations in Environmental Science II
ENVS 202L - Foundations in Environmental Science II Lab
ENVS 462 - Environmental Capstone

Additional Requirements:
ENVS 340 Sustainable Agriculture and Lab
ENVS 300 Integrated Pest Management and Lab
ENVS 362 Soil Science and Lab
ENVS 350 Sustainable Food Production Practicum
OR
ENVS 461 Environmental Research
ENVS 351 Agricultural Marketing Practicum
OR
BADM 385 Business Externship
MATH 314 Statistics

Elective Courses - Choose One sequence
BIOL 103 AND BIOL 104 General Biology
OR
BIOL 211 Fundamentals of Biology I AND BIOL 212 II
OR
CHEM 207 General Chemistry I AND CHEM 207L
AND CHEM 209 General Chemistry II AND CHEM 209L
OR
PHYS 301 Energy
AND PHYS 302 Physical Computing*

Agricultural Economics, 6 Hours:
ACCT 201 Introductory Accounting I
BADM 150 Introduction to Business
BADM 310 Principles of Management
BADM 311 Exploring Entrepreneurship
BADM 340 Principles of Marketing

Technological Applications for Agriculture, 8 Hours:
CHEM 333 Environmental Chemistry ** and Lab
ENVS 345 Sustainable Development and Laboratory
ENVS 341 Sustainable Energy and Lab
ENVS 390 Geographic Information Systems
ENVS 391 Remote Sensing
ENVS 395 Advanced GIS
PHYS 302 Physical Computing*

Agricultural Resources, 8 Hours:
BIOL 315 Plant Biology **
BIOL 363 Mycology **
BIOL 412 Comparative Animal Physiology
ENVS 301 Wildlife Management and Lab
ENVS 302 Forestry Management and Lab
ENVS 344 Ichthyology
ENVS 401 Conservation Ecology
ENVS 441 Hydrology and Lab
GSCI 301 Physical Geology

Social Resources, 3 Hours:
ANTH 300 Introduction to Archaeology
ANTH 315 Cultural Anthropology
ENVS 306 Environmental Policy
ENVS 322 Environmental History
ENVS 323 Environmental Ethics
HIST 300 Historic Preservation and Interpretation

Electives: 7 Hours
ENVS 298 ST Special Topics in Sustainable Food Production
Choose any 300-level or above BIOL, CHEM, ENVS or GSCI course.

* PHYS 302 can be applied only once within the program: EITHER in Complementary Sciences OR in Technological Applications for Agriculture
** CHEM 209, CHEM 209L, BIOL 315, BIOL 363 and BIOL 412 have prerequisites

Department of Environmental and Physical Sciences
www.shepherd.edu/ieps