

APPLICATIONS OF ENVIRONMENTAL SCIENCE (ESAP)

Updated 10/30/2023

Definition: These courses apply scientific tools and methods to address environmental challenges. A substantial component of the course must consider interactions between humans and the environment.

The list below has been sorted by department and course number.

BIOL 201 Natural History of the Cumberland Valley
BIOL 224 Plant Geography and Ecology w Lab
BIOL 301 Columbian Exchange
BIOL 301 Wildlife Ecology
BIOL 314 Ecology
BIOL 322 Plant Systematics
BIOL 324 Plant Geography and Ecology
BIOL 325 Plant Physiology
BIOL 332 Natural History of Vertebrates
BIOL 412 Coastal Biology
BIOL 423 Plant Physiological Ecology w Lab

CHEM 243 Modern Chemical Analysis
CHEM 490 Environmental Chemistry & Toxicology
CHEM 490 Nanomaterials for Energy, the Environment, and Health

ENST 305 Environmental Data Analysis
ENST 305 Green Infrastructure
ENST 305 Mammalogy
ENST 305 Ornithology
ENST 305 Vegetation Monitoring
ENST 305 Wildlife Monitoring Methods and Technology
ENST 310 Air Pollution and Health
ENST 310 Environmental Health Methods
ENST 310 Ornithology
ENST 311 Field Biology, Tools, Tech & Protocols
ENST 318 Advanced Applications in Geographic Information Systems
ENST 335 Analysis and Management of the Aquatic Environment
ENST 345 Agro-ecology
ENST 361 Role of Natural Science in Environmental Studies
ENST 362 Principles of Natural Science for Environmental Studies

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GEOS 202 Energy Resources
GEOS 204 Global Climate Change
GEOS 208 Environmental Hazards
GEOS 220 Environmental Geology
GEOS 250 Introduction to Artic Studies
GEOS 320 Hydrogeology

PHYS 114 Climate Change and Renewable Energies
PHYS 314 Energy and Environmental Physics