

ENSS - ENVION SYSTEMS SCIENCE (ENSS)

ENSS 105 Introduction to Environmental Systems Science

Credits 3. 3 Lecture Hours. Key concepts and generalizations of global environmental issues within an Earth systems science framework including climate change, air pollution, land and coastal degradation, water resources and pollution, and habitat loss; environmental ethics, economics and politics; environmental issues in Texas. Enrollment preference will be given to environmental systems science and environmental studies majors.

ENSS 205 Environmental Programs Cornerstone

Credit 1. 1 Lecture Hour. Professional career options, methods, strategies and skills involved in successful career planning in the environmental sciences; highlights high impact learning opportunities such as study abroad and internships and the development of scientific communication skills.

ENSS 405 Environmental Programs Capstone

Credits 3. 2 Lecture Hours. 2 Lab Hours. Dynamics and human interactions with near-surface environments including land, atmosphere and oceans through problem-based learning; interdisciplinary environmental problem topic, for example, water quality, urbanization, coastal development, or environmental pollution; geoscience techniques used for monitoring human-geosphere interaction. **Prerequisites:** ENSS 105; junior or senior classification.

ENSS 430 Global Science and Policy Making

Credits 3. 3 Lecture Hours. Policy making derived from global science and technology; how advice is communicated to the federal government and the public; current and future societal concerns that could affect future policy making; knowledge and information used to set priorities, decide budget allocations, and establish public policy. **Prerequisites:** Junior or senior classification or approval of instructor.

ENSS 431 Environmental Regulatory Compliance in Geoscience

Credits 3. 3 Lecture Hours. Knowledge and practical experience necessary for analyzing and evaluating environmental protection and stewardship principles; application of evolving environmental laws and regulations to the human business enterprise; exploration of the interplay between stakeholders in the development of sound environmental management and regulatory strategies. **Prerequisites:** Junior or senior classification, or approval of instructor.