B.S. in Environmental Science & Studies

Learning Outcomes

The Environmental Sciences and Studies major will:

- Understand how the natural world functions as an interconnected system consisting of the biosphere, hydrosphere, atmosphere and lithosphere.
- Understand how these interconnected systems affect human well-being and in turn how humans impact the natural world.
- Understand and critically evaluate the science behind the complex environmental problems that humans currently face both locally and globally.
- Understand the challenges and opportunities associated with different landscapes ranging from densely urban to wilderness with a focus on urban sustainability.
- Design and conduct a scientific investigation using appropriate tools and techniques to gather, analyze, and interpret data.
- Communicate in oral and written form the results of their scientific investigations.
- Collect and handle data/samples in a manner that displays understanding of the basic safety procedures in the field and laboratory.
- Draft, evaluate, and interpret technical documents on environmental analyses.
- Identify and apply the concepts and methods from an allied science field.
- Recognize the concept of sustainability as a dynamic condition characterized by the interdependency among physical, biological, economic and social systems.
- Understand the concepts and methods of assessing and evaluating sustainability practices in various social and political institutions.
- Comprehend historical and ethical foundations of sustainability from the local to the global.