

# ARRUPE INTERDISCIPLINARY SCIENCE (ACISC)

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## **ACISC 101 Interdisciplinary Science: Scientific Basis of Environmental Issues (3 Credit Hours)**

The foundational course in science is predicated on the view that understanding environmental issues and their underlying scientific principles will occupy a central role in our students' lives and will be critical in their development as informed and participating members of society. The overarching strategy of the course will be to frame environmental science in terms of a series of interacting systems to allow students to analyze a variety of environmental issues.

*IAI code:* LP 900

*Course equivalencies:* ENVS137/UCSF137/ENVS101

*Outcomes:*

1) Exhibit knowledge of the nature of the four Earth systems; 2) Draw inferences from evidence, constructing testable and falsifiable hypotheses and analyzing data; 3) Understand the role of energy and thermodynamics in ecosystems; 4) Understand and describe important cycles in nature

## **ACISC 102 Environmental Processes, Challenges, and Methods (4 Credit Hours)**

This course examines scientific issues underlying a series of significant threats to the planet. These include the loss of biodiversity, ensuring access to a stable supply of food and water for all of the Earth's inhabitants, climate change, and the demands for energy and other resources. Students will also investigate possible responses to these planetary threats.

*IAI code:* LP 901L

*Outcomes:*

Students will understand the nature of contemporary environmental challenges, both as scientific and social problems

## **ACISC 102L Environmental Processes, Challenges, & Methods Lab (1 Credit Hour)**

*Co-requisites:* ACISC 102

This course provides students with the opportunity to learn basic and intermediate lab skills commonly used in environmental science, including measuring properties of matter, analyzing soil, water and atmospheric samples, as well as the mathematics needed to analyze data and draw inferences from evidence.

*IAI code:* LP 901L

*Outcomes:*

Students will master basic scientific techniques related to the study of the environment