

INTERDISCIPLINARY SCIENCE (ISC)

ISC 2290 - Math and Science Education (0-2 Credits)

This course helps Learning Assistants integrate educational theory, pedagogy, content, and practice. Course meetings will focus on practical concerns as well as associated theoretical models, and will include weekly readings, discussions, reflections, projects, and presentations.

ISC 2930 - Selected Topics (1-4 Credits)

Topics of current or special interest to students or faculty. Topics or focus vary depending on student/faculty interest.

ISC 3120C - Scientific Process (3 Credits)

Introduction to the philosophy, methodology and ethics of scientific practice via classroom discussion and literature review. Focus on philosophical and practical differences between physical & historical science; hypothesis generation and testing; experimental design; construction of a research proposal; composition of a scientific paper; oral presentation; and critical review. Previous course: ISC 3120.

Prerequisite(s): (OCE 3008C or EVR 3002 or PCB 3063C or PCB 3023C or (CHM 2211C or (CHM 2211 and CHM 2211L))) and (STA 2023 or STA 2122 or MAC 2311)

ISC 3154C - Environmental Research Design (3 Credits)

Introduction to the scientific method and the structure, techniques, and ethics of marine, environmental and earth sciences. This course is intended for students in the marine, environmental and earth sciences. Students evaluate issues critically; learn to transform scientific questions into testable hypotheses; communicate information using the language and concepts of science; and develop an understanding of bias and ethics in the practice of science. The methods, concepts, and conventions of science are used to design a research project that is fully developed in the form of a research proposal.

Prerequisite(s): OCE 3008C or OCE 3603C or EVR 3002 or PCB 3043C or GLY 2030C

Attribute(s): WBLI - Work based learning indicator

ISC 4910 - Sr. Proj Rsch Intrdisc Nat Sci (3 Credits)

Research projects designed to hone skills in applying research principles and obtaining practice in data collection and analysis, or certain aspects of research are carried out by one or more students under the supervision of a faculty member.

Prerequisite(s): ISC 3154C or ISC 3154

Attribute(s): WBLI - Work based learning indicator

ISC 4930 - Current Top in Intd Nat Scienc (1-3 Credits)

Special or current topics in the interdisciplinary natural sciences. Students are encouraged to choose topic courses which are relevant to their prospective research thesis or internship. Students will receive a grade of Satisfactory "S" or Unsatisfactory "U".

Attribute(s): ENVE - Envir.Stud.Elect.Pathway, SUSC - Sustainability Component

ISC 4940 - Internship in Interdis Nat Sci (3 Credits)

Supervised internship in a field or laboratory setting. A Satisfactory "S" or Unsatisfactory "U" grade will be assigned.

Prerequisite(s): ISC 3154C or ISC 3154

Attribute(s): WBLI - Work based learning indicator