



## **Introduction to Science**

### **Seminar S-STEM Freshmen Experience Fall 2016**

#### **Seminar meets in the S-STEM Scholar Lounge:**

PB 4 room 3, or visit other locations, TBA

#### **Meeting Times:**

Tuesdays 11am-12:15pm

This is a one credit seminar course designed to familiarize the S-STEM Scholars in their freshman year with the Science Community at the University of Hawai`i at Hilo. This course will introduce the student to various Student Support Programs and Laboratories on campus. It will help them develop study habits and research techniques that will lay a strong foundation for success in STEM. Incorporated will be service learning experiences, weekly discussions about ethics in science, how interdisciplinary research can benefit science and community, the importance of being good citizens and the rewards of giving back to the community.

#### **Learning Objectives:**

Students will gain knowledge of various student support systems on campus

Students will gain effective study habits to help them succeed in STEM disciplines

Students will receive special academic advising by the project PI and Program Director, Dr. Reni Ivanova, or one of the faculty on the S-STEM Executive Committee

Students will learn from experts about responsible conduct of research and innovative scientific research techniques

Students will gain an ethical view on science and scientific work in their STEM major.

Students will learn about the various labs on campus, what research their teams conduct and what arsenal of tools and research equipment are effective for their research

Students will learn safety techniques for conducting STEM research

Students will participate in sessions on selected current scientific advances that encompass major STEM fields

Students will gain a good understanding of the value of interdisciplinary research in STEM fields

Students will receive information and advising about STEM summer research opportunities in Hilo, in the state of Hawaii, on the continental U.S. and abroad

Students will receive information about various career opportunities in STEM

Students will be given an opportunities and will be encouraged to participate in community service activities

Senior S-STEM scholars will be encouraged to peer mentor junior S-STEM scholars

Students will build a STEM learning community

## COURSE OUTLINE (Tentative)

Orientation week		Welcome to S-STEM, Orientation, Welcome Package
(8/23)	Week 1	Introduction to Course and Campus Tour/ Scavenger Hunt
(8/30)	Week 2	“How to Thrive in College” – study habits, support programs at UHH, and more
(9/6)	Week 3	Planning your academic career - navigating the STAR and working with your advisor.
(9/13)	Week 4	Research for Science in the Library with an expert from the UHH Library
(9/20)	Week 5	Academic Etiquette with Dr. Michael Peterson, CS
(9/27)	Week 6	Scientific Labs on Campus: the Analytical Lab with Tara Holitzki
(10/4)	Week 7	Scientific Labs on Campus: Scanning Electron Microscopy with Dr. Jason Adolf
(10/11)	Week 8	Scientific Labs on Campus: SDAV with Dr. Ryan Perroy
(10/18)	Week 9	Scientific Labs on Campus: Bioacoustics Lab with Dr. Patrick Hart
(10/25)	Week 10	Scientific Labs on Campus: EDXRF with Dr. Peter Mills and Dr. Steven Lundblad (the Geology Lab)
(11/1)	Week 11	Scientific Labs on Campus: Genetics CORE Facility with Anne Veillet
(11/8)	Week 12	Election Day! Go VOTE!!!!!! No class! Just go Vote!

(11/15)	Week 13	Internships are great: Presentations from PIPES, Wahi Kapuna, KUPU and ALEX, Plus, a visit with the National and Global Student Exchange Programs.
(11/22)	Week 14	End of semester meetings with S-STEM Student Assistant (15 minutes each student, appointment set ahead of time).
(11/29)	Week 15	End of semester meetings with S-STEM Student Assistant (15 minutes each student, appointment set ahead of time).
(12/6)	Week 16	End of semester meetings with S-STEM Student Assistant (15 minutes each student, appointment set ahead of time).
(12/12- 12/16)	Week 17	Final Exam Week (no final exam for this class)