SCIENCE (SCI)

SCI 120 Live Science: How Scientific Issues Impact Your Daily Life 4 credits
Not excited about taking a science general education course? This course will show you how much science affects your day-to-day life. You will learn about current issues and controversies in the areas of biology, chemistry, and environmental science, including global warming, alternative energy, fracking, recycling, vaccination, GMOs, cloning and gene therapy, and stem cells. This course will equip you to think critically, find reliable sources of information, and to make educated decisions when it comes to your health, your environment, and political issues. This course includes a lab, which will help you to learn the theory behind the scientific method and give you exposure to how scientific research is carried out.

SCI 310 Life, Earth, Space, and Physical Science for Educators 3 credits
In a laboratory setting students actively explore concepts and skills taught in the K-6 classroom including life, earth, space, and physical science. The planned explorations will be structured to simultaneously expose students to activities and approaches that are appropriate for the elementary classroom while also understanding the process of scientific inquiry and knowledge acquisition.

SCI 435 Research and Techniques 4 credits
This course provides the students with an opportunity to master a number of research tehniques through participation in a collaborative research project. Significant time will be spent reading and analyzing scientific literature related to the research project. Emphasis may be given to molecular biology, cell and bacterial culture, or HP-LC mass spectrometry. This course is inteded for students with little to no research experience. Students will meet during regularly scheduled class time to learn techniques and design experiments. Time will be required outside of class to carry out and maintain experiments. (Prerequisites: BIO 130 and CHE 115)

SCI 436 Advanced Research & Techniques 4 credits
This course provides the students with an opportunity to master a number of research techniques through participation in a collaborative research project. Significant time will be spent reading and analyzing scientific literature related to the research project. This course is intended for students that have taken SCI 435 and are interested in further pursuing advanced research opportunities. Time will be required outside of class to carry out and maintain experiments. (Pre-requisite: SCI 435)

SCI 450 Literature Review of Special Topics 2 credits
The topic for this course will vary each semester from a wide range of current scientific research. Students will read background material, participate in discussions and complete writing assignments. (Prerequisite: Minimum grade of C- in BIO 120 and CHE 115)

SCI 455 Research in Science 4 credits
This course offers students the opportunity to do original research in science under the direction of university faculty. When applicable, the research will result in a presentation at a research symposium. (Prerequisite: Minimum grade of C- in BIO 120 and instructor approval)

SCI 456 Advanced Research in Science 1-4 credits
This course offers students the opportunity to do original research in science under the direction of university faculty. When applicable, the research will result in a presentation at a research symposium. This advanced course is intended for students with prior research experience. (Prerequisite: Minimum grade of C- in SCI 455 and instructor approval)

SCI 497 Study Abroad 1-4 credits
International travel course that supports students' program learning with first-hand experience.

SCI 499 Senior Outcomes 0 credits