

Below are descriptions of courses offered under the School of Science, prefix SCI, which are in addition to those listed under their respective departments.

SCI 099/Orientation to Science

0 course units

(fall)

Required of all first year open option science students, this course provides an introduction to studying science and mathematics at the college level, to the academic and other support resources at The College of New Jersey and to the major programs offered within the School of Science. Grounded in theory of group developmental advising, this course provides students the opportunity to explore career and collegiate expectations and goals and their own active role in their undergraduate experience.

SCI 103/Physical, Earth, and Space Sciences

1 course unit

(with laboratory)

(every semester)

Restricted to students in Elementary Education, Early Childhood Education, Education of the Deaf and Hard of Hearing, and Special Education.

This course introduces various topics from physical, earth, and/or space sciences, such as motion, Newton's laws, energy, momentum, thermal energy, fluids, light, electromagnetic forces and fields, the Earth, the Solar System and the universe. Algebra-based equations, graphs, and scientific notations are used. Concepts are reinforced through laboratory experiments and problem-solving. This course is designed for elementary education majors to help them meet New Jersey state standards.

SCI 104/ Inquiries in the Life Sciences

1 course unit

(with laboratory)

(fall, spring, summer, annually)

Restricted to students in Elementary Education, Early Childhood Education, Education of the Deaf and Hard of Hearing, and Special Education.

An introduction to general chemistry and biology concepts and their relationship with current issues in the study of genetics, the environment and human health. Scientific principles necessary to understand topics such as human nutrition and disease, human impacts on the biosphere, and the debate over teaching evolution in public schools are considered. A strong emphasis is placed upon the process of science as a form of inquiry, and the theory of evolution as the foundation of modern biology. Laboratory experiments, discussions and written assignments will complement the course, which is designed to meet New Jersey state content curriculum standards in chemistry and life science.

SCI 111/Biochemistry and the Human Body

1 course unit

(with laboratory)

(every semester)

Restricted to Nursing students

An introduction to general inorganic, organic and biochemistry which explores the relationships between chemical processes and normal structure and function in the human body. Laboratory experiments investigate chemical reactions and develop techniques important for further study of human biology in a nursing clinical context.