ISC 1004C  
Interdisciplinary Science I (3) (A.A.)

Catalog Description: Four hours lecture/lab per week. The course meets Area V requirements for the A.A./A.A.S./A.S. general education requirements. There are no prerequisites, but a basic science background is helpful. This course introduces the student to a variety of scientific fields to emphasize the common threads rather than the differences. Emphasis is focused on basic scientific reasoning and applications using the scientific method. Activities include the familiarization with common scientific equipment, basic measurement and units used, the periodic table, nuclear science, chemical reactions, common properties of materials, force, energy, work, stars, solar system, evolution and organism classification. Additional special fees are required.

Performance Standards:

At the Successful completion of the course, the student should be able to:

1. Demonstrate proficiency with use of scientific terms associated with chemical, physical, biological and ecological principles covered.
2. Acquire and understanding of the interactions of energy and matter, including transformation of energy in biological matter.
3. Acquire an understanding of the characteristics of organisms, diversity, and adaptation; appreciate the importance of diversity.
4. Acquire an understanding of the heredity of human characteristics.
5. Acquire an understanding of the structure of natural population, energy flow, and the biotic and abiotic factors affecting their survival.
6. Acquire an understanding the properties of Earth materials, and the existence of natural cycles for recycling biological materials.
7. Acquire an understanding of how Earth has changed through time.
8. Acquire and understanding of resources, human population, hazards, and the quality of the environment; appreciate resource protection, and some of the human impacts on the environment with an emphasis on Florida.
9. Appreciate how scientists apply certain technologies to improve their understanding of the biosphere.
10. Demonstrate basic literary proficiency in sciences, and be able to make a presentation on any aspects covered in this course.