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**NASC - 1001 Astronomy Laboratory, 1.00 Credit**

Level: Lower

Liberal Arts and Science

This laboratory course is designed to accompany NASC 1003 for the student who wishes a laboratory component to astronomy. It will cover many of the same topics as the astronomy course but using a laboratory setting including the use of a telescope, computers, graphing, and various measuring instruments, and astronomical charts.

**NASC - 1003 Astronomy I, 3.00 Credits**

Level: Lower

Gen Ed - Natural Sciences, Liberal Arts and Science

This course is an introduction to planetary science and positional astronomy. Topics covered are positional astronomy; synodic and sidereal periods; phases; planetary motion; the nature of science and its application to astronomy; gravity and Kepler's Laws of Planetary Motion; light and telescopes, the physical properties of the planets and other Solar System bodies; the evolution of planets; the evolution of the Solar System; extra-solar planets and life elsewhere in the Universe.

**NASC - 1043 Physical Science Survey, 3.00 Credits**

Level: Lower

Gen Ed - Natural Sciences, Liberal Arts and Science

This course is a survey of the principles and applications of the physical and earth science. The course covers basic topics in physics, astronomy, geology, meteorology, environmental science and earth science. The nature and practice of science will also be discussed.

**NASC - 2003 Astronomy II, 3.00 Credits**

Level: Lower

Gen Ed - Natural Sciences, Liberal Arts and Science

This course is designed as a continuation of NASC 1003, Astronomy, or as a separate introduction to stellar evolution and cosmology. It will introduce advanced topics from the fields of astronomy and cosmology. Emphasis will be placed on scientific process and critical thinking. This course is suitable for science majors or as a science elective. Topics to be covered are: star cycles, galactic evolution and cosmology. An optional laboratory course will be offered.

**NASC - 6003 Topics in Sustainability, 3.00 Credits**

Prerequisite(s): MATH 1033 with C or better and ( BIOL 1104 with D or better or BIOL 1304 with D or better or BIOL 2803 with D or better or BIOL 1404 with D or better or CHEM 1114 with D or better or CHEM 1984 with D or better or NASC 1003 with D or better or PHYS 1024 with D or better or PHYS 1044 with D or better or PHYS 1064 with D or better )

Level: Upper

Upper Level

In this course, students will apply quantitative reasoning and qualitative reasoning to a variety of areas as they relate to sustainability; the goal of meeting the needs of the present while maintaining the ability of the future to meet its needs. Students will establish ways in which these areas relate to the three pillars of sustainability: environmental, social and economic with the goal of recognizing and coping with potential conflicts and issues involved with efforts to achieve sustainable goals.