J-3-c. Natural and Applied Science (8 cr, from two different disciplines, which include two accompanying labs OR 7 cr which includes a Core Science (CORS) course and one course with lab).

The purpose of this requirement is to develop a better understanding of the physical and biological world by learning some of the principles that explain the natural phenomena of the universe, the experimental method used to derive those principles, and their applications.

Study in this area is undertaken as part of the general education requirements in order to promote scientific literacy, that is, the ability to read and understand the science issues being debated in society. Scientific literacy is essential if citizens are to make informed judgments on the wide range of issues that affect their everyday lives. Students receiving passing grades in the natural and applied science courses of the general education curriculum will demonstrate competency in the following areas: (1) knowledge of scientific principles; (2) the ability to write clearly and concisely using the style appropriate to the sciences; (3) the ability to interpret scientific data; (4) the ability to analyze experimental design critically; and (5) the development of laboratory skills.

- **BIOL 102** Biology and Society 3 cr
- **BIOL 102L** Biology and Society Lab 1 cr
- **BIOL 114** Organisms and Environments 4 cr
- **BIOL 115** Cells & the Evolution of Life 3 cr
- **BIOL 115L** Cells and the Evolution of Life Laboratory 1 cr
- **BIOL 154** Introductory Microbiology 3 cr AND **EPPN 154** Microbiology & the World Around Us 3 cr
- **BIOL 155** Introductory Microbiology Laboratory 1 cr AND **EPPN 155** Microbiology & the World Around Us Lab 1 cr
- **CHEM 101** Introduction to Chemistry I 4 cr
- **CHEM 111** Principles of Chemistry I 4 cr
- **CHEM 112** Principles of Chemistry II 5 cr
- **CORS 205-297** Integrated Science 3 cr
- **ENVS 101** Introduction to Environmental Science AND **ENVS 102** Field Activities in Environmental Sciences 3 cr
- **GEOG 100** Physical Geography 3 cr AND **GEOG 100L** Physical Geography Lab 1 cr
- **GEOL 101** Physical Geology AND **GEOL 101L** Physical Geology Lab 1 cr
- **GEOL 102** Historical Geology AND **GEOL 102L** Historical Geology Lab 1 cr
- **PHYS 100** Fundamentals of Physics AND **PHYS 100L** Fundamentals of Physics Lab 1 cr
- **PHYS 103** General Astronomy 3 cr AND **PHYS 104** Astronomy Lab 1 cr
- **PHYS 111** General Physics I AND **PHYS 111L** General Physics I Lab 1 cr
- **PHYS 112** General Physics II AND **PHYS 112L** General Physics II Lab 1 cr
- **PHYS 211** Engineering Physics I AND **PHYS 211L** Laboratory Physics I 1 cr
- **PHYS 212** Engineering Physics II AND **PHYS 212L** Laboratory Physics II 1 cr
- **SOIL 205** The Soil Ecosystem AND **SOIL 206** The Soil Ecosystem Lab 1 cr