ISP—Integrative Studies in Physical Science

Center for Integrative Studies in General Science
College of Natural Science

205L Visions of the Universe Laboratory
Fall, Spring. 3(3-0) P: ISP 205 or concurrently
Observations of the sky, laboratory experiments, and computer simulations exploring the development of the modern conception of the universe.

207L World of Chemistry Laboratory
Fall, Spring. Summer. 2(1-2) P: (MTH 103 or MTH 110 or MTH 116 or LBS 117 or (MTH 106 or concurrently) or (MTH 124 or concurrently) or (MTH 132 or concurrently) or (MTH 201 or concurrently) or (STT 200 or concurrently) or (STT 201 or concurrently)) or designated score on Mathematics Placement test
The language, concepts, models and techniques of chemical science, including atomic theory; nuclear energy; acids; chemicals in air, water, food and biological systems.

209L The Mystery of the Physical World Laboratory
Fall, Spring, Summer. 2(1-2) P: ISP 209 or concurrently
Physical phenomena: optics, mechanical systems and electromagnetic phenomena.

215 The Science of Sound
Fall, Spring. 3(3-0) P: (MTH 103 or MTH 110 or MTH 116 or LBS 117 or (MTH 106 or concurrently) or (MTH 124 or concurrently) or (MTH 132 or concurrently) or (MTH 201 or concurrently) or (STT 200 or concurrently) or (STT 201 or concurrently)) or designated score on Mathematics Placement test
The science of speech, communication, musical instruments, room acoustics, and analogue and digital audio. Integrating the physical, physiological, and psychological principles involved.

217 Water and the Environment
Fall, Spring. 3(3-0) P: MTH 103 or MTH 110 or MTH 116 or LBS 117 or (MTH 106 or concurrently) or (MTH 124 or concurrently) or (MTH 132 or concurrently) or (MTH 201 or concurrently) or (STT 200 or concurrently) or (STT 201 or concurrently)
Application of the scientific method to identification and solution of environmental problems related to water.

221 Earth Environment and Energy
Fall, Spring. 3(3-0) P: MTH 103 or MTH 110 or MTH 116 or LBS 117 or (MTH 106 or concurrently) or (MTH 124 or concurrently) or (MTH 132 or concurrently) or (MTH 201 or concurrently) or (STT 200 or concurrently) or (STT 201 or concurrently)
Flow of energy into, through, and out of the earth’s lithosphere, hydrosphere, atmosphere, and biosphere. Energy, entropy, and life processes. Global warming, greenhouse effect, and contemporary issues.