SCIENCE (SCI)

SCI 211. Natural Systems of the Northwoods. (2 Credits)
An integrative science course centering on natural history and systems with an exploration of abiotic and biotic factors. Offered exclusively during the summer for education students only (preservice teachers) at HoneyRock. Su only.

SCI 291. Health Professions Colloquium. (1 Credit)
This course provides a variety of topical discussions on issues relevant to work in the healthcare profession today. Dialogue and reflection upon the impact of the Christian faith and issues of medical ethics and care of various patient populations included. Discussion and assignments will prepare students for application to health profession programs. Prerequisites: Junior or Senior Standing.

SCI 301. Natural Science: Foundations, Methods, Challenges. (4 Credits)
A historical and philosophical study of methodological and foundational issues in the natural sciences focusing principally on physics, astronomy, biology, and challenges the natural sciences present to culture. Prerequisite: Any SP course. Tags: PI, SIP

SCI 302. Origins of Scientific Thought. (4 Credits)
An introduction to the history of science, helping students understand its value for making sense of our contemporary cultural context. This is accomplished through studying the development of natural philosophy and the emergence of scientific methods and modes of thought. Particular emphasis is placed on the philosophical, religious, and institutional contexts, continuity and change over time, causality, contingency, and complexity of the emergence of scientific thought. This course engages in an in-depth exploration of a period, issue, concept, key figures, or a set of over-arching questions. Tags: HP, SIP

SCI 303. Making Modern Science. (4 Credits)
Investigates the historical development of modern sciences from the Early Modern period to the present helping students explore the value of the sciences for understanding our contemporary cultural context. Particular emphasis is placed on the philosophical, religious and institutional contexts, continuity and change over time, causality, contingency, and complexity of the emergence of scientific though and practice. This course engages in an in-depth exploration of a period, issue, concept, or over-arching questions. Tags: HP, SIP

SCI 311. Theories of Origins. (4 Credits)
Examination of scientific theories of origins and development, such as Big Bang cosmology, Earth’s formation and early history, origin of life, origin of species, history of life, and human origins. Relationships between biblical and scientific explanations are explored for each topic. Prerequisite: any SP course. Field trip fee. Tags: SIP

SCI 321. Science for Middle and High School Teachers. (2 Credits)
Required for science majors who plan to teach high school. Survey of science curricula, computer applications in science teaching, laboratory theory and evaluation processes, management of laboratories, and field trips. Prerequisites: ten hours of education courses and ten hours of courses in teaching area major.

SCI 322. Elementary Grade Education Science Curriculum. (2 Credits)
Required for elementary education majors. Survey of elementary science curricula and resources; consideration of perspective, process, content, and application of science in teaching. Concurrent with EDUC 305L, 311, 311L, 312, 315, 317, SSCI 321 or consent of instructor. Prerequisites: ten hours of education courses and at least one science laboratory course.

SCI 325. Methods of Teaching Middle Grade Science. (2 Credits)
Required for those seeking an endorsement for teaching middle grade science. Includes theories and methods for teaching science at the middle grade level (grades 5-8). Topics include effective teaching strategies, planning, and assessment of science content, particularly with science processes and inquiry. Based on the Next Generation Science Standards and the Illinois Professional Teaching Standards. Prerequisites: Ten hours of education courses and ten hours of courses in teaching area major.

SCI 393. Interdisciplinary Studies in Science. (2 to 4 Credits)
Interdisciplinary study of topics in the natural sciences. Prerequisite: a CATC SP lab course.

SCI 494. Nursing Capstone. (2 Credits)
The capstone seminar evaluates the historical foundation and contemporary issues within nursing and healthcare with special attention to biblical responses to these issues. The course provides opportunity to discuss and observe the field of nursing through experiential learning experiences and study Christian perspectives on nursing practice. Prerequisites: junior standing, registration with the Health Professions Program or consent of instructor. (lin) General Education: SHAR