

HEALTH SCIENCE COURSE DESCRIPTIONS

Health Team Relations

Course number: 7210
Maximum enrollment: 26
Recommended Hours of Instruction: 135 – 180
Prerequisites: None

This course is designed to assist potential health care workers to function as members of the health care team. Topics include medical terminology, history of health care, ethics and legal responsibilities, cultural diversity, careers and leadership development. Work-based learning strategies include service learning and job shadowing. Skills in communication and social studies are reinforced in this course.

Biomedical Technology

Course number: 7200
Maximum enrollment: 26
Recommended Hours of Instruction: 135 – 180
Prerequisites: None

This course challenges students to investigate current medical and health care practices using technology and advances in health care research. Topics include medical terminology, ethics, forensic medicine, infectious diseases, organ transplants, cell biology and cancer, careers and biomedical research. Work-based learning strategies include service learning and job shadowing. Skills in science and math are reinforced in this course.

Allied Health Sciences I

Course number: 7211
Maximum enrollment: 26
Recommended Hours of Instruction: 135 – 180
Prerequisites: None

This course investigates the science of the health care delivery system. Topics include the study of the language of medicine, medical mathematics, anatomy and physiology, diseases/disorders, diagnosis and treatment, and career development. Work-based learning strategies include service learning and job shadowing. Skills in science, math, communications and health are reinforced in this course. Biology and Health Education are recommended prerequisites.

Allied Health Sciences II

Course number: 7212
Maximum enrollment: 16
Recommended Hours of Instruction: 270 – 360
Prerequisites: Allied Health Sciences I

This course is designed to prepare potential health care professionals to become effective and efficient health team members. Emphasis is on the development of employability skills, emergency care skills, safety skills, and health care skills. The work-based learning strategy appropriate for this course is a minimum 65-hour clinical internship where student interns work in health care settings. Skills in science, math, communications, health and social studies are reinforced in this course.

Medical Sciences I

Course number: 7221
Maximum enrollment: 26
Recommended Hours of Instruction: 135 – 180
Prerequisites: None

This course uses advanced investigative approaches to the study of human and social sciences as related to medicine and health care. Emphasis includes the language of medicine, body chemistry, anatomy and physiology, and the current and futuristic study of diseases and disorders. Work-based learning strategies include service learning, field trips, and job-shadowing. Skills in science, mathematics, health, and social studies are reinforced in this course. HOSA competitive events serve as instructional strategies that reinforce the curriculum content. Biology, Algebra I, and Health Education are recommended prerequisites.

Medical Sciences II

Course number: 7222
Maximum enrollment: 16
Recommended Hours of Instruction: 135 – 180
Prerequisites: Allied Health Sciences I or Medical Sciences I

This specialized course is designed to prepare potential health care workers, preferably seniors, for performance in an advanced technical or professional health career. Emphasis is placed on professional development, communications, safety, bioethical/legal practices, health care delivery system, assessment and diagnostic practices, , and problem-solving and decision-making. Skills in mathematics, science, and communications are reinforced in this course. Work-based learning strategies include the development of individualized clinical skills specifically related to a selected mentorship (minimum of 45 hours) with an exemplary health professional. HOSA activities support networking with health care agencies and professionals through the development of clinical expertise and volunteerism.

Health Sciences Advanced Studies

Course number: 7299
Maximum enrollment: 16
Recommended Hours of Instruction: 135 – 180
Prerequisites: Three credits in Health Sciences Education

This culminating course is for seniors who are career-focused in a health or medical career. The three parts of the course include a research paper, a product, and a presentation. Students demonstrate their abilities to use content and apply knowledge to real-world situations in a selected career. In addition, they will also demonstrate their abilities to write, speak, apply knowledge, problem solve, and use life skills such as time management and organization. Students work under the guidance of a teacher-facilitator in collaboration with community members, business representatives, and other school-based personnel. HOSA membership provides avenues for applying leadership skills, reinforcing writing and speaking skills, and participating in volunteer activities.

**Internships, apprenticeships, and approved course modifications and pilots are also acceptable to meet requirements.*

Exploring Biotechnology

Course number: 7205

Maximum enrollment: 18

**Recommended hours of
Instruction:** 67-90Course

Prerequisites: none

This course focuses on the agricultural and medical industries with emphasis on biotechnology and the relationship of science and technology that affects agriculture, medicine and health care. Topics include career concepts in the agriculture and medical fields. Skills in mathematics, science, and language arts are reinforced in the course. This course contributes to the development of a career development plan. Work-based learning activities appropriate for this course are projects, field trips, and job shadowing. Teaching strategies encourage the development of essential skills and knowledge of the world of work, careers and leadership in the agriculture and medical industries. FFA and CECNC leadership activities apply instructional competencies to authentic experiences.
