Allied Health - Science with Biology Concentration, Pre-Baccalaureate
Allied Health Emphasis

Associate in Science

Minimum of 61-62 credit hours

Today, there are millions of workers employed as allied health professionals in the United States. And, the number of workers needed is only expected to rise, making this an excellent career field to enter. If you’re interested in a career in sonography, radiography, radiation therapy, nuclear medicine, nutritional science, communication science, physical therapy or occupational therapy, consider enrolling in the associate in science degree program in allied health at Oklahoma City Community College.

Course Sequence

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**Course Grouping**

Major Courses: (20 credit hours) Biology: BIO 1124; BIO 2234; 4 credit hours Biology*; 4 credits: BIO 1204, BIO 2000, BIO 2102, BIO 2114, BIO 2203, BIO 2215, BIO 2224, BIO 2255, BIO 2324, BIO 2343, BIO 2403 or BIO 2404; Chemistry: CHEM 1115; Allied Health: AHP 1013; General Education Courses: (37 credit hours) English: ENGL 1113; ENGL 1213; History: HIST 1483 or HIST 1493; Political Science: POLSC 1113; Biology: BIO 2125; Chemistry: CHEM 1215; Humanities: Six credit hours*; Social Science: PSY 1113; SOC1113* or PSY2403*; Mathematics: MATH 1513

Life Skills Courses: (1 credit hour) Life Skills: SCL 1001

Support Courses: (3 credit hours) Computer Science: CS 1103

* Course choice depends on the specific program for which the student is applying. See prerequisite course list of the receiving institution.

A minimum grade of "C" required for all prerequisites and general education courses at OUHSC; at UCO all BIO and CHEM courses require a minimum grade of "C."

**Program Notes**

Notes: This program is designed for students planning to continue their education at a four-year college or university. See the front general section for information and requirements about University Parallel/Transfer Programs.
AHP 1013 - MEDICAL TERMINOLOGY  
Prerequisites: ENGL 0203, adequate placement score, or by meeting determined placement measures  
3 Credits  After studying the root words, prefixes, and suffixes from which medical terms evolve, the student will correctly spell medical terms, define terms commonly used in medical fields, and determine the meaning of unfamiliar medical terms.

BIO 1124 - GENERAL BIOLOGY I (Majors)  
Prerequisites: ENGL 0203 or adequate placement score or by meeting determined placement measures; MATH 0403 or adequate math placement test score.  
4 Credits  An introductory course required for all biological science majors and pre-health profession students. The fundamental principles of biology are described using a cellular approach. Students gain knowledge regarding the chemical basis of life, structural characteristics of cells to include a discussion of energetics, metabolism and genetics. Evolution and ecology are also discussed in order to provide an understanding of both the diversity of living organisms and the living world. Students recognize, discuss and correctly apply fundamental biological principles influencing their personal relationship with other life forms. A discussion of the scientific method, logical (deductive) reasoning, hypothesis testing and some common fallacies and misconceptions that cloud scientific explanations of the natural world are included. Laboratory work, an integral and required part of the course, will enhance the student’s understanding of fundamental biological concepts as well as scientific procedures, laboratory technical skills, dissertation and statistical analysis.

BIO 2125 - MICROBIOLOGY  
Prerequisites: MATH 0203 or adequate math placement test score, Any four credit hour college-level biology course and a college-level chemistry course.  
5 Credits  Students are introduced to the biological requirements and activities of microorganisms which influence their roles as integral components of the ecosystem. Students demonstrate knowledge of basic principles of pathology, epidemiology and immunology in addition to performing basic laboratory techniques for isolating, characterizing and identifying common microorganisms.

BIO 2234 - HUMAN PHYSIOLOGY  
Prerequisites: BIO 1124 and one college-level chemistry course.  
4 Credits  Students discuss major systems of the human body, contrast functional and regulatory activities of each and identify factors influencing homeostasis. Through the use of models, the student will recognize the relative influences and interrelationships between circulation, digestion, metabolism, respiration, kidney function, muscle action, endocrine and nervous control, and reproduction of other systems and the organism as a whole. Laboratory work which requires dissection is an integral and required part of the course.

CHEM 1115 - GENERAL CHEMISTRY I  
Prerequisites: ENGL 0203, adequate placement score, or by meeting determined placement measures; MATH 1513 or MATH 1533, or both MATH 0403 and High School Chemistry or CHEM 1123. A grade of 5 Credits  This course is designed for science and engineering majors. The course covers nomenclature, atomic and molecular structure, stoichiometry, acid/base and other aqueous reactions, states of matter, phase changes, gas laws, and an introduction to thermochemistry. Laboratory experience is an integral part of the course.

CHEM 1215 - GENERAL CHEMISTRY II  
Prerequisites: CHEM 1115 with a grade of “C” or better; MATH 1513 or MATH 1533 with a grade of “C” or better.  
5 Credits  This course is a continuation of CHEM 1115 with emphasis on thermochemistry, intermolecular forces, properties of solutions, acid/base properties, kinetics, equilibrium, thermodynamics, electrochemistry, and organic chemistry. Laboratory is an integral part of the course.

CS 1103 - INTRODUCTION TO COMPUTERS AND APPLICATIONS  
Prerequisites: Math 0103 or adequate math placement test score; ENGL 2003, adequate placement score, or by meeting determined placement measures  
3 Credits  This hands-on course affords students a basic understanding of computers and their application. Upon completion of this course, the student will be able to demonstrate the ability to use a computer operating system, an office suite, productivity tools, as well as the Internet at an introductory level. Advanced Standing is available.

ENGL 1113 - ENGLISH COMPOSITION II  
Prerequisites: ENGL 1103 or ENGL 1113 taken within the last year, with strong encouragement for immediate continuation.  
3 Credits  In this advanced writing course, students will create essays that explore and evaluate a variety of issues and perspectives suggested by fiction, poetry, drama, essays, and other types of cultural texts. Students will refine and augment the writing techniques they learned in ENGL 1113 or ENGL 1103 to develop well-reasoned, well-structured arguments in a clear, fluid, and engaging prose style.

FA MAJOR - FACULTY APPROVED MAJOR ELECTIVE  
Prerequisites:  
3 Credits  Faculty approved major elective.

HIST 1483 - U.S. HISTORY TO THE CIVIL WAR  
Prerequisites: ENGL 0203, adequate placement score, or by meeting determined placement measures  
3 Credits  After analyzing events in American history from 1400 to 1870 in such areas as revolution, geographic and social mobility, political reform, government precedents and war, the student will be able to identify patterns of present day mobility, describe governmental operations in his society and help resolve conflict in society based on the students search for change, precedents, and conflict in the American past.

HIST 1493 - U.S. HISTORY SINCE THE CIVIL WAR  
Prerequisites: ENGL 0203, adequate placement score, or by meeting determined placement measures  
3 Credits  After analyzing events in American history from 1870 to the present in such areas as political reform, industrialization, urbanization, ethnic acculturation and war, the student will be able to identify meaningful changes in his society, identify equal rights in that society, and help resolve conflict in this society based on the students search for change, equal rights and conflicts in the American past.

HUM - HUMANITIES ELECTIVE  
Prerequisites:  
3 Credits  Humanities elective.
MATH 1513 - COLLEGE ALGEBRA
FOR BUSINESS, LIFE SCIENCES AND
SOCIAL SCIENCES
Prerequisites: MATH 0403 or adequate math
placement test score; ENGL 0203, adequate
placement score, or by meeting determined
placement measures
3 Credits The student will demonstrate
an understanding of the general concepts
of relation and function and specifically of
polynomial, exponential, and logarithmic
functions; the ability to solve systems
of equations by utilizing matrices and
determinants; and the ability to solve practical
problems using algebra.

POLSC 1113 - AMERICAN FEDERAL
GOVERNMENT
Prerequisites: ENGL 0203, adequate
placement score, or by meeting determined
placement measures
3 Credits A study of the principles, structure,
processes and functions of the United States
federal government.

PSY 1113 - INTRODUCTION TO
PSYCHOLOGY
Prerequisites: ENGL 0203, adequate
placement score, or by meeting determined
placement measures
3 Credits A survey of the major areas of
study in psychology such as motivation,
learning, physiology, personality, social
psychology, abnormal behavior, perception,
memory, cognition/thought, and treatment.

PSY 2403 - DEVELOPMENTAL
PSYCHOLOGY
Prerequisites: PSY 1113
3 Credits A theoretical and research-based
course that covers social, emotional, physical
and cognitive aspects of human development
throughout the life-span.

SCL 1001 - SUCCESS IN COLLEGE
AND LIFE
Prerequisites: ENGL 0106 or adequate
reading/writing assessment scores
1 Credit Students will learn best practices
for academic, career, and personal success.
Students will discover their individual
strengths, interests, and values to create
a personalized plan; select and utilize
resources that are applicable to their growth
and success; and engage as active and
responsible members of the academic
community. This course should be taken
during a student's first semester of college
work at Oklahoma City Community College
and is a required course in degree plans to
satisfy the Life Skills requirement.

SOC 1113 - INTRODUCTION TO
SOCIOLOGY
Prerequisites: ENGL 0203, adequate
placement score, or by meeting determined
placement measures
3 Credits The student will identify the
sociological dimensions of human behavior
by analyzing the concepts of society, culture,
socialization, institutions, social stratification
and social change.