

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

Course ID	Course Name	Credits	Type	Min Gd
Suggested Freshman 1st Semester				
SCL 1001	Success in College and Life	1	Life Skills	
ENGL 1113	English Composition I	3	Gen Ed	
MATH 1513	College Algebra for Business, Life Sciences and Social Sciences	3	Gen Ed	
BIO AH SUPP ELEC	Pre-Bacc Allied Health (Biology) Support Electives	3	Support	
BIO 1124	General Biology I (Majors)	4	Major	
Suggested Freshman 2nd Semester				
ENGL 1213	English Composition II	3	Gen Ed	
HIST 1483	U.S. History to The Civil War	or	Gen Ed	
HIST 1493	U.S. History Since The Civil War	3	Gen Ed	
CS 1103	Introduction to Computers and Applications	3	Support	
PSY 1113	Introduction to Psychology	3	Gen Ed	
CHEM 1115	General Chemistry I	5	Major	
Suggested Sophomore 1st Semester				
POLSC 1113	American Federal Government	3	Gen Ed	
GEN ED SCI ELEC	General Education Science Electives	4	Gen Ed	
HUM	Humanities Elective	3	Gen Ed	
BIO 2234	Human Physiology	4	Major	
Suggested Sophomore 2nd Semester				
SOC 1113	Introduction to Sociology	or	Gen Ed	
PSY 2403	Developmental Psychology	3	Gen Ed	
BIO AH SUPP ELEC	Pre-Bacc Allied Health (Biology) Support Electives	6	Support	
HUM	Humanities Elective	3	Gen Ed	
GEN ED SCI ELEC	General Education Science Electives	4	Gen Ed	

Course Grouping

Major Courses: (13 credit hours) Biology Core: BIO 1124; BIO 2234; CHEM 1115

General Education Courses: (38 credit hours) English: ENGL 1113; ENGL 1213; History: HIST 1483 or HIST 1493; Political Science: POLSC 1113; Humanities: Six credit hours*; Social Science: PSY 1113; SOC1113* or PSY2403*; Mathematics: MATH 1513; Computer Science: CS 1103; 8 hours of general education science chosen from the following: BIO 2125, BIO 1134, BIO 2215, CHEM 1215, PHYS 1114.

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

Support Courses: (9 credit hours): 9 credit hours of support electives from the following*: AHP 1013, ACCT 2113, BIO 1023, BIO 2114, BIO 2203, BIO 2215, BIO 2255, BIO 2404, CHEM 2114, CHEM 2122, COM 2213, MATH 1613, MATH 1743, MATH 2013, PHYS 1114, PHYS 1214, or any 5 credit hour GRMN, FREN, or SPAN course.

*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.

Degree Program Course Descriptions

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, dissection and statistical analysis.

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.

BIO AH SUPP ELEC - Pre-Bacc Allied Health (Biology) Support Electives

9 Credits 9 credit hours of support electives from the following: AHP 1013, ACCT 2113, BIO 1023, BIO 2114, BIO 2203, BIO 2215, BIO 2255, BIO 2404, CHEM 2114, CHEM 2122, COM 2213, MATH 1613, MATH 1743, MATH 2013, PHYS 1114, PHYS 1214, or any 5 credit hour GRMN, FREN, or SPAN 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.

CS 1103 - Introduction to Computers and Applications

Prerequisites: Math 0103 or adequate math placement test score; ENGL 0203, 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. This course satisfies the computer proficiency requirement.

ENGL 1113 - English Composition I

Prerequisites: ENGL 0203, adequate placement score, or by meeting determined placement measures
 3 Credits The student will write well-developed compositions which demonstrate the principles of unity, coherence, and organization and which contain specific details and vivid language. The students will locate library material and incorporate researched materials into compositions.

ENGL 1213 - 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.

GEN ED SCI ELEC - General Education Science Electives

8 Credits 8 hours of general education science chosen from the following: BIO 2125 Microbiology; BIO 1134 General Biology II (Majors) ; BIO 2215 General Zoology; CHEM 1215 General Chemistry II; PHYS 1114 College Physics I

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 1877 in such areas as revolution, geographic and social mobility, political reform, government precedents and war, students will be able to identify patterns of present day mobility, describe governmental operations in their society and help resolve conflict in society based on the student's search for change, precedents, and conflict in the American past. A general education requirement.

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

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.