Pre-Baccalaureate Nursing - Science with Biology Concentration Program

Associate in Science

Minimum of 61 Credits credit hours

If you know you want to pursue a bachelor’s degree in the field of science, you might consider enrolling in the pre-baccalaureate nursing – science with biology concentration program at Oklahoma City Community College. This curriculum will prepare you to transfer to a four-year college or university and pursue your education in nursing. A degree in nursing prepares you to work in clinical settings as well as education, private industry and public health settings.

Course Sequence

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Course Grouping

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

General Education Courses: (38 credit hours) English: ENGL 1113; ENGL 1213; History: HIST 1483 or HIST 1493; Political Science: POLSC 1113; Biology: BIO 1023; BIO 2125; Humanities: Six credit hours*; Social Science: Social Science Elective*; Mathematics: MATH 2013; Computer Science: CS 1103.

Support Courses: (9 credit hours) Allied Health: AHP 1013; 6 hours FA Guided Support from: BIO2255 or equivalent; 3 credit hour Social Science*; any CS course after CS 1103; or any 5 credit hour GRMN, FREN or SPAN course.

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

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".

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

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

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 1023 - INTRODUCTORY NUTRITION
Prerequisites: ENGL 0203 or adequate placement score or by meeting determined placement measures; MATH 0103 or adequate math placement test score.
3 Credits Upon completion of this course, the student will be able to discuss the composition of nutrients and accessory factors required for human nutrition, relate their roles in human health and disease, and describe the application of basic nutritional principles to the planning of normal and special dietary regimens.

BIO 1124 - GENERAL BIOLOGY I (Majors)
Prerequisites: ENGL 0203 or adequate placement score or by meeting determined placement measures; MATH 0103 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 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.

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.

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.

FA SUPPORT - FACULTY APPROVED SUPPORT ELECTIVES
Prerequisites: 3 Credits Faculty approved support electives

GEN ED - GEN ED ELECTIVE
Prerequisites: 3 Credits General Education 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 conflicts 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 2013 - INTRODUCTION TO STATISTICS**

*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 solve problems applying the concepts of random sampling, elementary probability, testing hypotheses, descriptive measures, chi-square, regression and correlation, and analysis of variance.

**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.

**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 SC - SOCIAL SCIENCE ELECTIVE**

*Prerequisites:*

3 Credits Social Science elective