

Transfer Agreement

Oklahoma City Community College

And

University of Central Oklahoma

Effective Academic Year: 2024-2025

Associate in Science Degree – Biology

To

Bachelors of Science-Biology-Biomedical Science

Oklahoma City Community College

Mickey Jack

Name (please print)

Assistant Vice President for Academic Affairs

Mickey Jack

Signature

11/21/2024

Date

Juanita Ortiz

Name

Vice President for Academic Affairs

Juanita Ortiz

Juanita Ortiz (Nov 21, 2024 15:56 CST)

Signature

Date

University of Central Oklahoma

Dr. Elizabeth Allan

Department Chair

Elizabeth Allan

Signature

01/11/2025

Date

Dr. Gloria Caddell

Name

Dean, College of Mathematics and Science

Gloria M. Caddell

Signature

2/12/25

Date

Dr. Donna Cobb

Associate Vice President for Academic Affairs

Donna Cobb

Signature

02/13/2025

Date

OCCC Associate in Science - Biology to UCO Bachelor of Science - Biology - Biomedical Science

The University of Central Oklahoma (UCO), in collaboration with Oklahoma City Community College (OCCC), participates in articulated transfer agreements to assist students in transferring smoothly from the associate degree to the baccalaureate degree. These agreements express a shared commitment to student access and success in higher education.

This document specifies courses to be taken at OCCC and courses to be taken at UCO to meet this agreement.

Associate in Science (A.S.) - Biology

Students should refer to the associate degree requirements and an academic advisor for associate degree details to ensure a successful transition to UCO.

Oklahoma City Community College General Education

This section is an outline of the general education pattern at OCCC common to all majors. Some general education areas may vary by major. In those areas, consult an academic advisor or refer to the OCCC catalog or requirement sheet. An Associate in Science (A.S.) or Associate in Art (A.A.) degree from an accredited Oklahoma institution that includes the OSRHE minimum requirements will satisfy the UCO University Core.

English Composition

- ENGL 1113 English Composition I (UCO course ENG 1113)
- ENGL 1213 English Composition II (UCO course ENG 1213)

American History

- HIST 1483 U.S. History to 1877 (UCO course HIST 1483)
OR
HIST 1493 U.S. History 1877 to Present (UCO course HIST 1493)

US Government

- POLSC 1113 American Federal Government (UCO course POL 1113)

Science

One course must be a laboratory science. Students should refer to associate degree requirements or consult with an academic advisor for appropriate course selection for specific majors.

Humanities

Students should refer to associate degree requirements or consult with an academic advisor for appropriate course selection for specific majors.

Mathematics

Students should refer to associate degree requirements or consult with an academic advisor for appropriate course selection for specific majors.

Additional Requirements

Students will need at least one 3-hour course from the following disciplines: Psychology, Sociology, Political Science, Economics, Fine Arts (Art, Music, and Theatre), or Modern Languages. Students should refer to associate degree requirements or consult with an academic advisor for appropriate course selection for specific majors.

General Education Electives

Students should refer to associate degree requirements or consult with an academic advisor for appropriate course selection for specific majors.

UCO Major Requirements Taken At OCCC

The courses listed in this section are required at OCCC for this major and will also meet UCO major requirements. The OCCC course is followed by the UCO equivalent or substituted course.

- MATH 1483 Functions and Modeling (UCO course MATH 1453)
- BIO 1124 General Biology I for Majors (UCO course BIO 1204)
- BIO 1134 General Biology II for Majors (UCO course BIO 1224)
- CHEM 1115 General Chemistry I (UCO courses CHEM 1103 **and** 1112)
- CHEM 1215 General Chemistry II (UCO course CHEM 1223 **and** 1232)
- PHYS 1114 Physics I (UCO course PHY 1114)

Additional Coursework for the A.A. or A.S.

See OCCC catalog and academic advisor for additional associate degree requirements.

Credited courses completed as part of the A.A. or A.S. that do not meet a specific UCO degree requirement transfer to UCO as electives and may count toward the 124-hour minimum. Students should consult an academic advisor to determine how elective courses apply toward the bachelor's degree. Information for individual courses can be found on the UCO website under the UCO Transfer Equivalency Database.

Bachelor of Science (B.S.) - Biology-Biomedical Science

Degrees from UCO have requirements applicable to all degrees and requirements specific to the program/major.

Degree Requirement Minimums for All Programs/Majors

Students must meet all bachelor's degree requirements at UCO to include minimums of:

- 40 hours of upper division coursework
- 30 hours in residence at UCO
- 15 of the last 30 hours must be taken in residence at UCO
- 60 hours from baccalaureate granting institutions
- 124 total hours

UCO Major Requirements

This section details the course requirements for this major at UCO. The UCO course is followed by the community college equivalent or substituted course. Some courses may be taken at the community college but may or may not apply to the associate major or degree. Consult with an academic advisor for that information.

Support Courses: 0-6 hours

Students majoring in Biology are encouraged to complete the following courses in high school.

- Two years of high school algebra and one year of Trigonometry
OR
MATH 1453 Applied Algebra (OCCC course MATH 1483)
OR
MATH 1513 College Algebra
- MATH 1593 Plane Trigonometry (OCCC course 1613 may be taken.)

Major Requirements: 73 hours

Biology-Biomedical Sciences

Biology Core: 19 hours

- BIO 1204 Biology for Majors: Principles and Lab (OCCC course BIO 1124)
- BIO 1224 Biology for Majors: Diversity (OCCC course BIO 1134)
- BIO 2203 Cell Biology (OCCC course BIO 2203 may be taken.)
- BIO 2211 Cell Biology Laboratory
- BIO 3054 Microbiology for Majors and Lab (OCCC course BIO 2125 may be taken.)
- BIO 3303 Genetics (OCCC course BIO 2343 may be taken.)
- BIO 4840 Capstone (refer to Capstone Experience Details)

Mathematics: 6 hours

- MATH 2153 BioCalculus
- STAT 2103 Intro Statistics for Sciences (OCCC course MATH 2013 may be taken.)
(substitution)

Chemistry: 15 hours

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- CHEM 1103 General Chemistry I (OCCC course CHEM 1115 counts as UCO course CHEM 1103 **and** CHEM 1112)
 - CHEM 1112 General Chemistry I - Recitation/Lab
 - CHEM 1223 General Chemistry II (OCCC course CHEM 1215 counts as UCO course CHEM 1223 **and** CHEM 1232.)
 - CHEM 1232 General Chemistry II - Recitation/Lab

 - CHEM 3303 Organic Chemistry I (OCCC course CHEM 2114 may be taken.)
OR
CHEM 3013 Organic Chemistry for Life Sciences

 - CHEM 3312 Organic Chemistry I Lab (OCCC course CHEM 2111 may be taken.)
OR
CHEM 3022 Organic Chemistry for Life Sciences Lab

Physics: 4 hours

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- PHY 1114 General Physics I and Lab (OCCC course PHY 1114)

Guided Electives: 29 hours (selected from the following list)

(Refer to Graduate Medical and Allied Health Professional Schools Details)

- BIO 2504 Human Anatomy & Laboratory (OCCC course BIO 2255 may be taken.)
- BIO 3254 Comparative Vertebrate Anatomy and Lab
- BIO 3311 Intro to Genetics Lab Methods
- BIO 3414 Histology and Lab
- BIO 3703 Evolution
- BIO 3803 Mammalian Physiology I
- BIO 3813 Mammalian Physiology II
- BIO 4134 Developmental Biology and Lab
- BIO 4264 Mammalogy & Lab
- BIO 4334 Environmental Microbiology & Lab
- BIO 4343 Molecular Biology Techniques & Lab
- BIO 4414 Virology and Lab
- BIO 4454 Molecular Cell Physiology & Lab
- BIO 4504 Mycology & Lab
- BIO 4534 Pathogenic Microbiology and Lab
- BIO 4544 Immunology and Lab
- BIO 4582 Integrative Biology
- BIO 4622 Methods of Human Dissection & Prosection
- BIO 4743 Population Genetics & Lab
- BIO 4763 Biology of Cancer
- BIO 4774 Parasitology and Lab

- CHEM 3323 Organic Chemistry II
- CHEM 3332 Organic Chemistry II Lab
- CHEM 3403 Biochemistry I
- CHEM 4103 Biochemistry II
- PHY 1214 General Physics II and Lab (OCCC course PHY 1214 may be taken.)

National Assessment Exam

Graduating seniors must take a national assessment exam in Biology as a graduation requirement for the B.S. in Biology-Biomedical Sciences.

Capstone Experience Details

A maximum of 2 credit hours from the following list of capstone courses may apply toward the 29 credit hours of guided electives.

- BIO 3000 Workshop in Biology
- BIO 3990 Advanced Topics in Biology
- BIO 4012 Intro to Biological Research
- BIO 4871 Senior Seminar
- BIO 4900 Practicum in Biology
- BIO 4920 Workshop in Biology
- BIO 4930 Individual Study in Biology
- BIO 4950 Internship in Biology
- BIO 4960 Institute in Biology
- BIO 4970 Study Tour in Biology

To enroll in a Capstone Experience, students must complete a minimum of 60 credit hours. This 0-credit hour course is designed to be taken in conjunction with a capstone experience. Capstone experiences may include the above courses, or special projects in biology. Special projects include but are not limited to independent research, service learning, professional school applications, or other equivalent experiences as approved by the Capstone Coordinator. Approval of the Capstone Coordinator is required before starting any capstone experience. A reflective writing piece, which must receive a passing score, will be required for all capstones.

Graduate Medical and Allied Health Professional Schools Details

Students accepted to graduate medical and allied health professional schools (e.g. Chiropractic, Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Veterinary Medicine) prior to completing this degree will be allowed to transfer a maximum of 30 credit hours from the first year of medical course work toward the guided electives and electives included in this degree.

Minimum Grade Requirements

- Average in (a) all college course work, (b) course work at UCO, and (c) major courses: **2.00**
- A minimum grade of “C” must be earned in all courses in the major to count toward meeting degree requirements.

Electives

All UCO degrees require a minimum of 124 credit hours.

Total hours required for this major may exceed the minimum 124 credit hour institutional minimum requirement and will vary according to course selection. It is recommended students complete high school algebra II, trigonometry, physics, and two years of a second language in high school.

Transfer Policies

Transfer policies are available in the Introduction for Program-to-Program Agreements. This agreement does not include all possible variations for transfer with these programs/majors. The Academic Advisors along with the information in the official catalogs at both institutions are critical to the understanding of the specifics of degree completion.

Disclaimer

The provisions of this transfer agreement do not constitute a contract, expressed or implied, between any applicant or student and the University of Central Oklahoma. The university reserves the right to make changes in degree requirements, degree offerings, schedules, course offerings, and other university standards to meet circumstances which may arise after publishing this information online.