


Transfer Agreement
Between
Oklahoma City Community College
And
University of Central Oklahoma

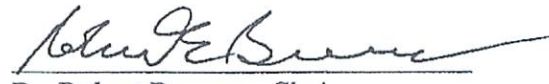
Effective Academic Year: 2018-2019

Associate in Science - Biology

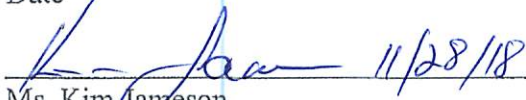
And

Bachelor of Science - Biology
Bachelor of Science - Biology - Medical Laboratory Science
Bachelor of Science - Biology - Biomedical Science



Dr. Max Simmons, Dean
Science, Engineering, and Mathematics



Dr. Robert Brennan, Chair
Department of Biology


11/28/18
Date

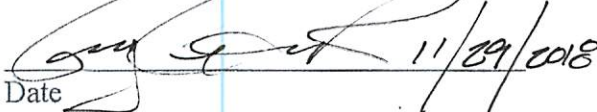

Ms. Kim Jameson
Associate Vice President for Academic Affairs

11/7/18
Date


Dr. Wei Chen, Dean
College of Mathematics and Science


Mr. Greg Gardner
Vice President for Academic Affairs

 ,AVP
Dr. John Barthell, Provost
Vice President for Academic Affairs


Date 11/29/2018

11-17-18
Date

Transfer Agreement

Oklahoma City Community College: Associate in Science - Biology

And

University of Central Oklahoma: Bachelor of Science - Biology

To comply with this agreement, students must complete the associate's degree with the major listed above and include the specific courses listed below.

Courses listed here are required for the agreement. Credited courses completed as part of the AA or AS that do not apply to the general education at OCCC or the UCO major transfer to UCO as electives.

OCCC

UCO

General Education requirements
 *MATH 1513 College Algebra
 BIO 1124 General Biology I for Majors
 BIO 2203 Cell Biology
 CHEM 1115 General Chemistry I
 *CHEM 1215 General Chemistry II
 *PHYS 1114 College Physics I
 *BIO 1134 General Biology II for Majors
 ^MATH 1613 Trigonometry
 CHEM 2114 Organic Chemistry I
 PHYS 1214 College Physics II

University Core completed with AA or AS
 MATH 1513 College Algebra
 BIO 1204 Biology for Majors: Principles
 BIO 2203 Cell Biology
 CHEM 1103 General Chemistry I and 1112 Lab
 CHEM 1223 General Chemistry II and 1232 Lab
 PHY 1114 General Physics I and Lab
 BIO 1225 Biology for Majors: Diversity
 ^MATH 1593 Plane Trigonometry
 CHEM 3303 Organic Chemistry I
 PHY 1214 General Physics II and Lab (recommend
 elective)

* In General Education Courses section of degree at OCCC

^ (If needed) UCO requires one year of trigonometry in high school or MATH 1593 Plane Trigonometry. MATH 1613 may be taken in the OCCC degree to meet this requirement.

This degree requires additional course work, including the general education, as stated in the OCCC Catalog. Other OCCC courses may or may not apply to the UCO major. That specific information can be found on the UCO website under the Online Transfer Guide.

Total at Oklahoma City Community College.....61-64

To be taken at the University of Central Oklahoma.....60-63

Major Requirements

Biology.....	38
Biology Core (required of all degree candidates)	14
BIO 2211 Cell Biology Laboratory	
BIO 3054 Microbiology for Majors and Lab	
BIO 3303 Genetics	
BIO 3543 General Ecology	
BIO 3703 Evolution	
*BIO 4840 Capstone	

Mathematics 6

Required courses:

- MATH 2153 BioCalculus
- STAT 2103 Intro Statistics for Sciences

Chemistry 2

- CHEM 3312 Organic Chemistry I Lab

Upper Division Biology Electives 16 (to bring total in major to 67)

** Any 3000/4000 level UCO BIO course or its equivalent AND/OR

- CHEM 3403 Biochemistry I

** At least five courses taken for the B.S. in Biology must be BIO courses with a lab. These courses include the three lab courses required as part of the core: BIO 1225, BIO 2211, and BIO 3054.

*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 following 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.

- 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

A maximum of 2 credit hours of the courses listed above, whether taken in conjunction with the capstone experience or not, will apply to the 67 credit hours required in the major except when BIO 4012 is chosen. If BIO 4012 is chosen as the capstone experience, an additional 2 credit hours may be taken.

Electives to bring total to 124

General Physics II is a recommended elective. (Taken at OCCC.)

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

Minimum Grade Requirements

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

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

- 40 hours of upper division course work (Watch closely in this major.)
- 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

Program-to-Program Transfer policies are available in the Introduction for Program-to-Program Agreements on the UCO website at the top of the list of agreements. Links to the agreements can be found on the Academic Affairs or Transfer Student Support web pages.

Transfer Agreement

Oklahoma City Community College: Associate in Science - Biology
And

University of Central Oklahoma: Bachelor of Science – Biology - Biomedical Sciences

To comply with this agreement, students must complete the associate’s degree with the major listed above and include the specific courses listed below.

Courses listed here are required for the agreement. Credited courses completed as part of the AA or AS that do not apply to the general education at OCCC or the UCO major transfer to UCO as electives.

OCCC

- General Education requirements
- *MATH 1513 College Algebra
- BIO 1124 General Biology I for Majors
- BIO 2203 Cell Biology
- CHEM 1115 General Chemistry I
- *CHEM 1215 General Chemistry II
- *PHYS 1114 College Physics I
- *BIO 1134 General Biology II for Majors
- ^MATH 1613 Trigonometry
- CHEM 2114 Organic Chemistry I
- PHYS 1214 College Physics II

UCO

- University Core completed with AA or AS
- MATH 1513 College Algebra
- BIO 1204 Biology for Majors: Principles
- BIO 2203 Cell Biology
- CHEM 1103 General Chemistry I and 1112 Lab
- CHEM 1223 General Chemistry II and 1232 Lab
- PHY 1114 General Physics I and Lab
- BIO 1225 Biology for Majors: Diversity
- ^MATH 1593 Plane Trigonometry
- CHEM 3303 Organic Chemistry I
- PHY 1214 General Physics II and Lab (Guided electives)

* In General Education Courses section of degree at OCCC

^ (If needed) UCO requires one year of trigonometry in high school or MATH 1593 Plane Trigonometry. MATH 1613 may be taken in the OCCC degree to meet this requirement.

This degree requires additional course work, including the general education, as stated in the OCCC Catalog. Other OCCC courses may or may not apply to the UCO major. That specific information can be found on the UCO website under the Online Transfer Guide.

Total at Oklahoma City Community College.....61-64

To be taken at the University of Central Oklahoma.....60-63

Major Requirements

Biology-Biomedical Sciences.....40

Biology Core 8

Required Courses:

- BIO 2211 Cell Biology Laboratory
- BIO 3054 Microbiology for Majors and Lab

BIO	3303	Genetics
*BIO	4840	Capstone

Mathematics6

Required courses:

MATH	2153	BioCalculus
STAT	2103	Intro Statistics for Sciences

Chemistry2

Required courses:

CHEM	3312	Organic Chemistry I Lab
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**Guided Electives.....24

Selected from the following:

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	4414	Virology and Lab
BIO	4515	Pathogenic Micro and Immunology & Lab
BIO	4622	Methods of Human Dissection & Prosection
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

*A maximum of 2 credit hours from the following list of capstone courses may apply toward the 28 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.

Minimum Hours required 124

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

Minimum Grade Requirements

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

**Students accepted to graduate medical and allied health professional schools (c.g. Chiropractic, Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Physician Assistant, and 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.

To be eligible, students must have successfully completed the following minimum requirements from UCO before matriculation into the professional program: 1) 94 credit hours total; 2) 30 credit hours in residence at UCO; 3) 15 upper division credit hours in the major; 4) 50% of the total major credit hours; and 5) all regular degree requirements, including general education. (Students must apply for their bachelor's degree within two years of completing their UCO work, but no later than graduation from medical school.)

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

40 hours of upper division course work

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

Additional degree requirements can be found in the UCO Undergraduate Catalog.

Program-to-Program Transfer policies are available in the Introduction for Program-to-Program Agreements on the UCO website at the top of the list of agreements. Links to the agreements can be found on the Academic Affairs or Transfer Student Support web pages.

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General Education requirements
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BIO 1124 General Biology I for Majors
*BIO 1134 General Biology II for Majors
BIO 2203 Cell Biology
BIO 2234 Human Physiology
CHEM 1115 General Chemistry I
*CHEM 1215 General Chemistry II
CHEM 2114 Organic Chemistry I
* In General Education Courses section of degree at OCCC

UCO

University Core completed with AA or AS
MATH 1513 College Algebra
BIO 1204 Biology for Majors: Principles
BIO 1225 Biology for Majors: Diversity
BIO 2203 Cell Biology
BIO 2604 Human Physiology and Lab
CHEM 1103 General Chemistry I and 1112 Lab
CHEM 1223 General Chemistry II and 1232 Lab
CHEM 3303 Organic Chemistry I

This degree requires additional course work, including the general education, as stated in the OCCC Catalog. Other OCCC courses may or may not apply to the UCO major. That specific information can be found on the UCO website under the Online Transfer Guide.

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Major Requirements

Biology-Medical Laboratory Sciences.....58

Students may earn the B.S. in Biology-Medical Laboratory Science from UCO upon completion of the following three year curriculum and an additional one year in a hospital school approved by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

Biology and Chemistry 18

Required Courses:

BIO 2211 Cell Biology Laboratory
BIO 3054 Microbiology for Majors and Lab
BIO 3303 Genetics
BIO 4515 Pathogenic Microbiology and Immunology and Lab
CHEM 3312 Organic Chemistry I Lab
CHEM 3403 Biochemistry I

Mathematics6

Required courses:

- MATH 2153 BioCalculus
- STAT 2103 Intro Statistics for Sciences

Elective Biology and/or Chemistry4

Selected from the following courses:

- BIO 3403 Comparative Animal Physiology OR
- BIO 3464 Comparative Animal Physiology and Lab
- BIO 3414 Histology and Lab
- BIO 3803 Mammalian Physiology I
- BIO 3813 Mammalian Physiology II
- BIO 4414 Virology and Lab
- BIO 4774 Parasitology and Lab
- CHEM 3203 Introductory Physical Chemistry
- CHEM 3323 Organic Chemistry II
- CHEM 3332 Organic Chemistry II Lab
- CHEM 3442 Experimental Biochemistry
- CHEM 4103 Biochemistry II

#Medical Technology.....30

Students must complete an appropriate one year program with an approved affiliate Hospital Medical Laboratory Science Program and satisfactorily complete the following courses through UCO.

- BIO 4117 Clinical Microbiology
- BIO 4236 Clinical Hematology
- BIO 4246 Clinical Immunology
- CHEM 4125 Clinical Chemistry I
- CHEM 4325 Clinical Chemistry II
- CHEM 4351 Topics in Medical Technology

Electives to bring total to.....124

#The Medical Laboratory Science degree can only be obtained upon completion of the one year clinical hospital training. Completion of the three-year requirements at UCO does NOT assure acceptance into one of the affiliated hospitals. Acceptance into a hospital program is highly competitive.

Minimum Grade Requirements

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

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