



**Associate in Science in Biology (TCC) to
Bachelor of Science in Cell and Molecular Biology (NSU)
Broken Arrow and Tahlequah**

Total Credit Hours at TCC (61) + Total Credit Hours at NSU (63) = 124 Credit Hours

Catalog Year: 2021-2022

Modalities Available (On-Campus, Online, Blended): On-Campus

Note to Students: Transfer Maps provide a semester-by-semester guide from TCC to a university program showing course equivalency. This transfer map is based on a full-time academic load of 30 credit hours per year, but can be adjusted to fit a part-time schedule. To ensure maximum transfer of credits, please work with your TCC advisor and your transfer university to ensure you are taking the correct courses to transfer on-time and on-track. Students are responsible for completing requirements in the official degree sheet for each major.

YEAR ONE – TULSA COMMUNITY COLLEGE			
Semester One		Semester Two	
TCC Course	Hrs.	TCC Course	Hrs.
BIOL 1224 Introduction to Biology for Majors	4	ENGL 1213 Composition II	3
ENGL 1113 Composition I	3	BIOL 1404 General Botany <u>OR</u> BIOL 1604 Zoology	4
MATH 1513 Precalculus I	3	CHEM 1315 General Chemistry I	5
HIST 1483 U.S. History 1492 to the Civil War Era <u>or</u> 1493 U.S. History to the Civil War Era <u>or</u> Civil War Era to present	3	POLS 1113 American Federal Government	3
Required Elective (PSYC, Social Sci, Foreign Language, or Fine Arts; PSYC 1113 recommended)	3		
Semester Credit Hours at TCC:	16	Semester Credit Hours at TCC:	15

YEAR ONE – TULSA COMMUNITY COLLEGE			
Semester Three		Semester Four	
TCC Course	Hrs.	TCC Course	Hrs.
BIOL 1404 General Botany <u>OR</u> BIOL 1604 Zoology	4	BIOL 2164 Microbiology	4
CHEM 1415 General Chemistry II	5	PHYS 1214 General Physics II **course not required for TCC Biology degree but required for NSU degree (recommended elective)	4
PHYS 1114 General Physics I	4	COMM 1113 Public Speaking	3
Humanities Elective (3 hours)	3	Humanities Elective (3 hours)	3
Semester Credit Hours at TCC:	16	Semester Credit Hours at TCC:	14

TCC2NSU

TRANSFER MAP



YEAR THREE – NORTHEASTERN STATE UNIVERSITY

Semester Five		Semester Six	
NSU Course	Hrs.	NSU Course	Hrs.
BIOL 3114 Genetics	4	BIOL 3124 Cell Biology	4
CHEM 3123 Organic Chemistry I	3	BIOL 4002 Experimental Design OR BIOL 4412 Research in Biology	2
CHEM 3132 Organic Chemistry I lab	2	CHEM 3223 Organic Chemistry II	3
MATH 3513 Statistical Methods	3	CHEM 3232 Organic Chemistry II lab	2
Elective (3 hours)	3	Electives (6 hours)	6
Semester Credit Hours at NSU:	15	Semester Credit Hours at NSU:	17

YEAR FOUR – NORTHEASTERN STATE UNIVERSITY

Semester Seven		Semester Eight	
NSU Course	Hrs.	NSU Course	Hrs.
BIOL 4232 Molecular and Cellular Biology Laboratory	2	BIOL 4103 Developmental Biology	3
BIOL 4543 Molecular Biology	3	BIOL 4242 Trends and Issues in Molecular Biology	2
BIOL Electives 4 hrs. (BIOL 4164 Medical Microbiology strongly recommended)	4	BIOL 4354 Immunology	4
CHEM 4214 Biochemistry	4	BIOL 4621 Senior Seminar	1
Electives (3 hours)	3	BIOL Electives 4 hours	4
		Electives (1 hours)	1
Semester Credit Hours at NSU:	16	Semester Credit Hours at NSU:	15

Milestones and Recommended Actions - TCC:

- **Consider Summer Courses:** Summer courses at TCC can help accelerate your time to transfer, and help you stay on track. Talk to your advisor about planning summer courses.
- **During or After Year One at TCC:** Consider a campus tour of Northeastern State University and connect with a NSU academic advisor, to ensure you are on track to transfer. Your TCC academic advisor can assist in planning these actions.
- **During Year Two at TCC:** After semester three coursework, apply for admission at Northeastern State University as a transfer student (<https://apply.nsuok.edu/>).
- **Final Semester at TCC:** Congratulations you are about to earn your A.S Biology! Be sure to apply for graduation @ <https://www.tulsacc.edu/student-resources/graduation>.
- **Transcripts:** submit official TCC transcript to NSU (www.tulsacc.edu/student-resources/student-records/requesting-and-submitting-transcripts).
- **Reverse Transfer:** If you have not earned an Associate in Arts or an Associate in Science from TCC, and have completed 60 credit hours, with 15 of those hours completed at TCC, email reversetransfer@tulsacc.edu to see if you qualify for a degree through the Reverse Transfer program.

Baccalaureate Degree Information:

- Students must complete 60 of 124 credit hours from a university (four-year school), excluding physical education courses.

TCC2NSU

TRANSFER MAP



- 30 credit hours are required from NSU.
- 40 credit hours must be junior and senior (3000/4000) level courses.
- At least 18 hours or 50% of the major, whichever is greater, must be from NSU; half the major must be upper level (3000/4000).
- English proficient (ENGL 1113 Composition & ENGL 1213 Composition II) with a C or better.
- Computer proficient.

Learn More About Programs in this Pathway:

- TCC A.S. Biology - <https://www.tulsacc.edu/programs-and-courses/academic-programs/biology>
- NSU B.S. Cell and Molecular Biology - <https://academics.nsuok.edu/naturalsciences/Degrees/Undergraduate/CellularEmphasis.aspx>

University Transfer Contact Information

University Transfer Office
Tulsa Community College
www.tulsacc.edu/transfer
Contact: tcc2university@tulsacc.edu

Transfer Student Services
Northeastern State University
<https://offices.nsuok.edu/advising/TransferStudentServices>
Contact: transfer2nsu@nsuok.edu