



**SMART CHOICE**



**NORTHEASTERN  
STATE UNIVERSITY**

*Gregg Wadley College of Science & Health Professions*

## Integrative Biology - Organismic Option (AS Biology – BS Integrative Biology - Organismic)

**Integrative Biology** is a broad subject, covering everything from interactions between different species in the environment to interactions between molecules within cells. The Biology - Organismic Emphasis degree program covers that breadth, integrating concepts in biological diversity, ecological interactions, developmental and evolutionary mechanisms, anatomical and physiological adaptations, and cellular and biochemical processes. The Biology - Organismic Emphasis degree program provides you with the broad integrative training that you need to pursue careers in such diverse areas as the health care professions, conservation, remediation, resource management, and sustainability.

**Transferring to NSU is a seamless process.** Although you can transfer to NSU at any time in your academic career, the smoothest transition occurs if you have earned or will earn an AA or AS from TCC. This milestone will also meet your general education requirements at NSU (unless it is a specific NSU requirement for you to graduate). Within your AA or AS, make sure you complete the required general education courses at TCC including ENGL 1113, ENGL 1213, MATH 1513, plus CHEM 1315 and CHEM 1415.

**What it takes to complete a B.S. degree in Integrative Biology - Organismic from NSU.** If you don't complete your AA or AS at TCC, you will need to meet NSU's specific general education requirements. You must complete at least 124 hours to earn a bachelor's degree. Of those hours, 60 must be from a university (4 year school; 30 hours required from NSU), 40 must be junior and senior (3000/4000) level, and half of the hours (50%) in your major must be from NSU. You must also be both English and computer proficient. This means that you must pass ENGL 1113 Composition I & ENGL Composition II with a "C" or better and pass the designated computer proficiency class if needed. Therefore, when you transfer to NSU, you will likely need around 60 more hours to earn your bachelor's degree.

**How do my TCC classes transfer to NSU?** Every class that you take at TCC will transfer to NSU. Every class you take at TCC will transfer to NSU. Each class counts in one of the following categories that make up a bachelor's degree: general education, major, minor, or free elective. Minors (18 hours) are a coherent set of courses in a discipline or interdisciplinary grouping other than a student's degree program. **This program does not require a minor.** Free electives can be selected from any academic area. They allow you to explore academic interests outside of your major while counting toward the 124 hours you need to graduate. If you completed a class at TCC that does not meet one of the other specific requirements, it will count as a free elective. If you complete more than 64 hours at the associate degree level, all courses will transfer to NSU, but may be counted as electives. You must have 60 hours from a four-year institution to meet state requirements for graduation with a baccalaureate degree.

**When can you start taking NSU classes?** You can begin taking classes at NSU while you are completing your AA or AS at TCC. This is called dual enrollment, many students do this each semester. Consult an NSU academic advisor and a financial aid counselor to see how dual enrollment can work for you.

## TCC Biology A.S. to NSU BS Integrative Biology – Organismic Option

### Freshman Year at Tulsa Community College

| Fall Semester   | Spring Semester                               |
|---|---|
| BIOL 1224 Introduction to Biology for Majors  | BIOL 1404 General Botany OR BIOL 1604 Zoology |
| ENGL 1113 Composition I   | CHEM 1315 General Chemistry I                 |
| MATH 1513 Precalculus I   | ENGL 1213 Composition II                      |
| HIST 1483 or 1493 U.S. History to the Civil War Era or Civil War Era to present             | POLS 1113 American Federal Government         |
| Required elective (PSYC, Social Sci, Foreign Language, or Fine Arts; PSYC 1113 recommended) |   |
| <b>Total Credit Hours: 16</b>   | <b>Total Credit Hours: 15</b>                 |

Notes: Computer Concepts & Applications (CSCI 1203) may be required for students who do not demonstrate computer proficiency. See TCC Catalog.

### Sophomore Year at Tulsa Community College

| Fall Semester  | Spring Semester               |
|--|-------------------------------|
| BIOL elective (BIOL 1404 General Botany, BIOL 1604 Zoology, BIOL 2134 Human Anatomy) | BIOL 2164 Microbiology        |
| CHEM 1415 General Chemistry II   | COMM 1113 Public Speaking     |
| PHYS 1114 General Physics I  | Humanities Elective (3 hours) |
| Humanities Elective (3 hours)  | Recommended elective 4 hours  |
| <b>Total Credit Hours: 16</b>  | <b>Total Credit Hours: 14</b> |

After completion of your fourth semester courses, have the TCC Registrar send an official transcript to the NSU Admissions Office. If you have completed all requirements for an Associate degree, make sure that designation is noted on your TCC official transcript before sending to NSU. If you have not completed the requirements for an Associate degree, talk with your TCC Academic Advisor about Reverse Transfer options to use NSU coursework to complete your TCC degree.

### Junior Year at Northeastern State University

| Fall Semester                     | Spring Semester               |
|-----------------------------------|-------------------------------|
| BIOL 3003 Plant Biology           | BIOL 3013 Animal Biology      |
| BIOL 3114 Genetics                | BIOL 3524 Ecology             |
| CHEM 3123 Organic Chemistry I     | BIOL Electives 3 hrs.         |
| CHEM 3132 Organic Chemistry I lab | Electives (7 hours)           |
| MATH 3513 Statistical Methods     |                               |
| <b>Total Credit Hours: 15</b>     | <b>Total Credit Hours: 17</b> |

### Senior Year at Northeastern State University

| Fall Semester  | Spring Semester                      |
|--|--------------------------------------|
| BIOL 3153 Evolutionary Biology                           | BIOL 4214 Animal Parasitology        |
| BIOL 3344 Environmental Physiology                       | BIOL 4503 Selected Topics in Biology |
| BIOL 3464 Field Botany                                   | BIOL 4621 Senior Seminar             |
| BIOL Animal Systematics (BIOL 3244, 4234, 4264, or 4584) | BIOL Electives 8 hours               |
| <b>Total Credit Hours: 15</b>                            | <b>Total Credit Hours: 16</b>        |

Total hours transferred from Tulsa Community college: 61

Total hours needed from a 4 year university to complete a Bachelor of Science in Integrative Biology – Organismic: 63

**Total Degree Plan Hours: 124**

For further information, contact Dr. Jessica Martin, Department Chair, Natural Sciences, 918-444-3830, [martini@nsuok.edu](mailto:martini@nsuok.edu)

<https://academics.nsuok.edu/naturalsciences/Degrees/Undergraduate/OrganismicEmphasis.aspx>