**Biology Transfer Pathway A.S.** A.S., 60 CREDITS

<table>
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<tr>
<th>Curriculum Type</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Biology Curriculum</td>
<td>28 cr</td>
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<tr>
<td>General Education Curriculum</td>
<td>32 cr</td>
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**PURPOSE**

The Biology Transfer Pathway A.S. offers students a powerful option: the opportunity to complete an Associate of Science degree with course credits that directly transfer to designated Biology bachelor's degree programs at Minnesota State universities. The curriculum has been specifically designed so that students completing this pathway degree and transferring to one of the seven Minnesota State universities* enter the university with junior-year status. All courses in the Transfer Pathway associate degree will directly transfer and apply to the designated bachelor's degree programs in a related field.

*Universities within the Minnesota State system include Bemidji State University; Metropolitan State University; Minnesota State University, Mankato; Minnesota State University, Moorhead; Southwest Minnesota State University; St. Cloud State University; and Winona State University.

**TRANSFER PATHWAYS**

With this transfer pathway, you will be able to transfer to the following majors at:

- Bemidji State University
  - Biology – BA, BS
- Metropolitan State University
  - Biology – BA
- Minnesota State University, Mankato
  - Biology – BS
- Minnesota State University, Moorhead
  - Biology – BA
- Southwest Minnesota State University
  - Biology – BA
- St. Cloud State University
  - Life Sciences – BES
- Winona State University
  - Biology, Allied Health – BS
  - Biology, Cell & Molecular – BS
  - Biology, Ecology – BS
  - Biology, Environmental Science – BS

**Biology Transfer Pathway Curriculum** 28 credits

- BIOL 1154 Principles of Biology I .......................... 4
- BIOL 1155 Principles of Biology II .......................... 5
- BIOL 2303 Genetics 1 ............................................. 5
- BIOL 2306 General Ecology 2 OR
  BIOL 2205 Microbiology 3 ............................................. 4
- CHEM 1061 Principles of Chemistry I .......................... 5
- CHEM 1062 Principles of Chemistry II .......................... 5

**General Education Curriculum** 32 credits

- ENG 1108 Writing and Research Skills .......................... 4
- ENG 1111 Research Writing OR
  ENG 1114 The Research Paper OR
  ENG 1130 Writing & Research for the Professions 2-3
- COMM 1100 Interpersonal Communication OR
  COMM 1110 Public Speaking OR
  COMM 2230 Small Group Communication .......................... 3
- MnTC Goal 4 course (MATH 1118 or higher level to fulfill at least 8 credits) ............ 8
- MnTC Goal 5 course .................................................. 3
- MnTC Goal 6 course .................................................. 3
- General electives (MnTC courses only) .................................. 8-9

**Recommended Elective Courses**

Should be tailored to specific major track and transfer university:

- GIS/Geography
- Geology or Earth sciences
- Higher level math courses, such as Calculus and Statistics
- Anatomy and Physiology
- Organic Chemistry I and II
- Physics
- Environmental Science
- Microeconomics

**TOTAL CREDITS** 60

1 BIOL 2303: Genetics is only offered in Spring Semesters, odd years
2 BIOL 2306: General Ecology is only offered in Fall Semesters, even years
3 BIOL 2305: Principles of Microbiology (5 credits) will also fulfill this requirement and is strongly recommended for this major.
FULL-TIME RECOMMENDED COURSE OF STUDY
Note: Not all courses will be available every semester. For a complete list of Minnesota Transfer Curriculum (MnTC) Goal Area course choices, please visit: inverhills.edu/MnTC

Semester 1 15 credits
ENG 1108 Writing & Research Skills (Goal 1, 2) .......................... 4
MATH 1118 College Algebra I (Goal 4) ........................................ 4
BIOL 1154 Principles of Biology I* (Goal 2, 3a) ............................. 4
COMM 1100 Interpersonal Communication (Goal 1, 7) OR
COMM 1110 Public Speaking (Goal 1, 2) OR
COMM 2230 Small Group Communication ................................ 3

Semester 2 17 credits
BIOL 1155 Principles of Biology II* (Goal 2, 3a) ......................... 5
CHEM 1061 Princ. Chemistry I* (Goal 2, 3b) .............................. 5
MATH 1119 College Algebra II (or higher level) (Goal 4) ............. 4
MnTC Goal 5 course ............................................................... 3

Semester 3 15 credits
BIOL 2306 General Ecology 2 OR
BIOL 2205 Microbiology 3 (Goal 2, 3a) ...................................... 4
CHEM 1062 Princ. Chemistry II* (Goal 2, 3b) .................................. 5
General electives (MnTC courses only) ....................................... 6

Semester 4 13 credits
BIOL 2303 Genetics with lab* 1 (Goal 2, 3a) .............................. 5
ENG 1111 Research Writing OR
ENG 1114 The Research Paper OR
ENG 1130 Writing & Research for the Professions ...................... 2-3
MnTC Goal 6 course ............................................................... 3
General elective (MnTC course only) ......................................... 2-3

TOTAL CREDITS 60

* Course required for major
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2 BIOL 2306: General Ecology is only offered in Fall Semesters, even years
3 BIOL 2305: Principles of Microbiology (5 credits) will also fulfill this requirement and is strongly recommended for this major.

PART-TIME RECOMMENDED COURSE OF STUDY
Note: Not all courses will be available every semester. For a complete list of Minnesota Transfer Curriculum (MnTC) Goal Area course choices, please visit: inverhills.edu/MnTC

Semester 1 8 credits
BIOL 1154 Principles of Biology I* (Goal 2, 3a) ......................... 4
MATH 1118 College Algebra I (Goal 4) ........................................ 4

Semester 2 9 credits
BIOL 1155 Principles of Biology II* (Goal 2, 3a) ......................... 5
MATH 1119 College Algebra II (or higher level) (Goal 4) ............. 4

Semester 3 9 credits
ENG 1108 Writing & Research Skills (Goal 1, 2) ......................... 4
CHEM 1061 Princ. Chemistry I* (Goal 2, 3b) .............................. 5

Semester 4 8 credits
CHEM 1062 Princ. Chemistry II* (Goal 2, 3b) .............................. 5
COMM 1100 Interpersonal Communication (Goal 1, 7) OR
COMM 1110 Public Speaking (Goal 1, 2) OR
COMM 2230 Small Group Communication ................................ 3

Semester 5 10 credits
BIOL 2306 General Ecology 2 OR
BIOL 2205 Microbiology 3 (Goal 2, 3a) ...................................... 4
MnTC Goal 5 course ............................................................... 3
General elective (MnTC course only) ......................................... 3

Semester 6 10 credits
BIOL 2303 Genetics with lab* 1 (Goal 2, 3a) .............................. 5
ENG 1111 Research Writing OR
ENG 1114 The Research Paper OR
ENG 1130 Writing & Research for the Professions ...................... 2-3
General elective (MnTC course only) ......................................... 3

Semester 7 6 credits
MnTC Goal 6 course ............................................................... 3
General elective (MnTC course only) ......................................... 3

TOTAL CREDITS 60

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