Biology Transfer Pathway A.S. Degree ............... 60 cr

Campus Contact For This Program
biology@inverhills.edu

BIOLOGY TRANSFER PATHWAY
A.S., 60 CREDITS

Biology Curriculum .................................................. 28 cr
General Education Curriculum .................................. 32 cr

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

Additional Transfer Pathway agreements have been established by various MN private colleges. Visit mnprivatecolleges.org/transfer for the most up to date information.

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 ..................................... 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 courses to fulfill at least 8 credits ........ 8
     Option 1: MATH 1103 Introduction to Statistics and Math 1118 College Algebra or higher-level course (e.g. Calculus)
     Option 2: Two courses from Math; must be MATH 1118 or higher-level courses (e.g. Calculus)
   □ 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
### 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](http://inverhills.edu/MnTC)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
</table>
| Semester 1 | 15 credits | ENG 1108 Writing & Research Skills \((\text{Goal 1, 2})\) .................. 4  
MATH 1118 College Algebra I \((\text{Goal 4})\) .......................... 4  
BIOL 1154 Principles of Biology I* \((\text{Goal 2, 3a})\) .............. 4  
COMM 1100 Interpersonal Communication \((\text{Goal 1,7})\) or  
COMM 1110 Public Speaking \((\text{Goal 1, 2})\) or  
COMM 2230 Small Group Communication ............................ 3 |
| Semester 2 | 17 credits | BIOL 1155 Principles of Biology II* \((\text{Goal 2, 3a})\) .............. 5  
CHEM 1061 Princ. Chemistry I* \((\text{Goal 2, 3b})\) .................. 5  
MATH 1119 College Algebra II (or higher level) \((\text{Goal 4})\) ........ 4  
MnTC Goal 5 course ............................................. 3 |
| Semester 3 | 15 credits | BIOL 2306 General Ecology 2 or  
BIOL 2205 Microbiology \((\text{Goal 2, 3a})\) *  ...................... 4  
CHEM 1062 Princ. Chemistry II* \((\text{Goal 2, 3b})\) .................. 5  
General electives (MnTC courses only) ............................. 6 |
| Semester 4 | 13 credits | BIOL 2303 Genetics with lab* 1 \((\text{Goal 2, 3a})\) .............. 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
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

### 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](http://inverhills.edu/MnTC)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
</table>
| Semester 1 | 8 credits | BIOL 1154 Principles of Biology I* \((\text{Goal 2, 3a})\) .............. 4  
MATH 1118 College Algebra I \((\text{Goal 4})\) .......................... 4 |
| Semester 2 | 9 credits | BIOL 1155 Principles of Biology II* \((\text{Goal 2, 3a})\) .............. 5  
MATH 1119 College Algebra II (or higher level) \((\text{Goal 4})\) ........ 4 |
| Semester 3 | 9 credits | ENG 1108 Writing & Research Skills \((\text{Goal 1, 2})\) .................. 4  
CHEM 1061 Princ. Chemistry I* \((\text{Goal 2, 3b})\) .................. 5 |
| Semester 4 | 8 credits | CHEM 1062 Princ. Chemistry II* \((\text{Goal 2, 3b})\) .................. 5  
COMM 1100 Interpersonal Communication \((\text{Goal 1,7})\) or  
COMM 1110 Public Speaking \((\text{Goal 1, 2})\) or  
COMM 2230 Small Group Communication ............................ 3 |
| Semester 5 | 10 credits | BIOL 2306 General Ecology 2 or  
BIOL 2205 Microbiology \((\text{Goal 2, 3a})\) *  ...................... 4  
MnTC Goal 5 course ............................................. 3  
General elective (MnTC course only) ............................. 3 |
| Semester 6 | 10 credits | BIOL 2303 Genetics with lab* 1 \((\text{Goal 2, 3a})\) .............. 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) ............................. 2-3 |
| Semester 7 | 6 credits | MnTC Goal 6 course ............................................. 3  
General elective (MnTC course only) ............................. 3 |

**Total Credits 60**

* Course required for major
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