# GENERAL SCIENCE, BACHELOR OF SCIENCE

## Requirements

To obtain a B.S. with a major in General Science, a student must fulfill university, college, and departmental requirements. Hour requirements follow:

- 46 hours of General Education courses
  Most commonly, General Science majors do not complete 46 hours of coursework solely for the purpose of meeting university General Education requirements. Instead, they often take six hours of coursework that meets both the six hours of diversity requirements and six hours of distribution requirements and meet the seven-hour University General Education natural sciences distribution requirement through completing major courses. In such cases, the number of credit hours taken solely to meet General Education requirements is reduced to 33 or fewer.

- 12-19 hours college breadth requirement
- 64-65 hours major courses
- 3-11 hours electives

Total Hours: 120

The B.S. degree with a major in General Science consists of 49-50 credits of natural science courses as outlined below and 15 credits of cognate coursework selected in collaboration with the advisor from complementary disciplines.

Arts and Sciences students must complete 27 credits of upper division coursework within their degree.

### Code | Title | Credits
---|---|---
Biology Required Courses

Biology I | BIOL 1450 | 5
Biology II | BIOL 1750 | 5

Chemistry Required Courses

General Chemistry I and General Chemistry I Laboratory | CHEM 1180 & CHEM 1184 | 4
General Chemistry II and General Chemistry II Laboratory | CHEM 1190 & CHEM 1194 | 4

Geology Required Course

Introduction to Physical Geology | GEOL 1170 | 4

Physics Required Courses

General Physics I with Algebra and General Physics Laboratory I | PHYS 1110 & PHYS 1154 | 5
General Physics and General Physics Laboratory II | PHYS 1120 & PHYS 1164 | 5

Option 2:

General Physics I - Calculus Level and General Physics Laboratory I | PHYS 2110 & PHYS 2154 | 5
General Physics-Calculus Level and General Physics Laboratory II | PHYS 2120 & PHYS 2164 | 5

Mathematics/Statistics Required Courses

Select one of the following options:

Option 1:

Collegiate Algebra (Not required if student has MATH ACT sub score of 23 or higher)

## Medical Laboratory Science Concentration

The B.S. in general science is offered with a concentration in medical laboratory science for students planning to apply to UNMC’s Medical Laboratory Science Program (MLS). This program was designed in collaboration with UNMC to allow a student to complete two bachelor’s degrees in as little as 122 credits. Students will apply to UNO’s General Science program and add on the medical laboratory science concentration. Following the guide below allows the student to complete UNO’s general education requirements and UNMC’s MLS pre-requisite coursework in no more than three years. Near the beginning of the student’s third year of UNO studies, they will need to apply to UNMC’s MLS program. Provided that the student has followed the curriculum as laid out below, and maintained a cumulative or math/science GPA of 3.0, he/she will be guaranteed an interview with UNMC’s MLS program.

Students must have a minimum of 30 credits in residence at UNO and of those, 15 credits must come from the natural and physical sciences.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option 1:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 1950 or MATH 1940</td>
<td>Calculus I for Biomedicine</td>
<td>5</td>
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<tr>
<td>MATH 1930</td>
<td>Calculus for the Managerial, Life, and Social Sciences (and an approved statistics course)</td>
<td>5</td>
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<tr>
<td>Electives</td>
<td>Select 12 credits of electives at the 2000 level or higher in at least two of the following disciplines: biology, chemistry, physics, geology.</td>
<td>12</td>
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Total Credits: 49-50

### Code | Title | Credits
---|---|---
Biology (21 credits)

Biology I | BIOL 1450 | 5
Biology II | BIOL 1750 | 5
Genetics | BIOL 2140 | 5
The Biology of Microorganisms | BIOL 2440 | 5
Introduction to Immunology | BIOL 3240 | 5

Chemistry (14 credits)

Fundamentals of College Chemistry and Fundamentals of College Chemistry Laboratory | CHEM 1140 & CHEM 1144 | 5
Fundamentals of Biochemistry and Fundamentals of Biochemistry Laboratory | CHEM 3650 & CHEM 3654 | 4

Mathematics (3 credits)

Collegiate Algebra (Not required if student has MATH ACT sub score of 23 or higher) | MATH 1220 | 3

Statistics (3 credits)

Select one of the following:
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 3130</td>
<td>STATISTICS FOR THE BEHAVIORAL SCIENCES</td>
<td>3</td>
</tr>
<tr>
<td>STAT 3000</td>
<td>STATISTICAL METHODS I</td>
<td>3</td>
</tr>
<tr>
<td>PA 3000</td>
<td>APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1160</td>
<td>ENGLISH COMPOSITION II (--UNMC will accept ENGL 1150 or 1160 but UNO requires at least ENGL 1160 or placement beyond via Advanced Placement or EPPE.)</td>
<td>3</td>
</tr>
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**PUBLIC SPEAKING (3 credits)**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CMST 1110</td>
<td>PUBLIC SPEAKING FUNDS</td>
<td>3</td>
</tr>
<tr>
<td>or CMST 2120</td>
<td>ARGUMENTATION AND DEBATE</td>
<td></td>
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**HUMANITIES & FINE ARTS (9 credits)**

3 Humanities & Fine Arts courses of choice from UNO's University Gen Ed list –One should be a U.S. Diversity or Global Diversity

**SOCIAL SCIENCES (6 credits)**

2 Social Sciences of choice from UNO's University Gen Ed list –At least one should be a U.S. Diversity or Global Diversity (whichever one wasn't taken as a humanities)

**COGNATE COURSES (15 credits minimum)**

Selected in collaboration with UNO advisor, suggested courses are:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL 1060</td>
<td>INTRODUCTION TO MEDICAL CAREERS &amp; ETHICS</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 2740</td>
<td>HUMAN PHYSIOLOGY AND ANATOMY I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2840</td>
<td>HUMAN PHYSIOLOGY AND ANATOMY II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1320</td>
<td>PRE-CALCULUS ALGEBRA</td>
<td>3</td>
</tr>
<tr>
<td>Social Science of choice (3)</td>
<td></td>
<td>3</td>
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Upon acceptance to the Bachelor of Science in Medical Laboratory Science program at UNMC, students will take at least 43 credits of professional MLS coursework to transfer back toward the completion of this additional UNO degree—a B.S. in general science—medical laboratory science concentration.

If the student is not accepted to UNMC, the following will need to be added to complete the GSCI major: PHYS 1110-1154, GEOL 1170, an additional 3 credits of social sciences if not taken within the cognate, an Advanced Writing course, a minor or additional College of Arts & Sciences Gen Eds, and electives to reach 120 credits total. Students must have a minimum of 27 credits at the 3000/4000 level throughout the entire degree.