This sample plan assumes that the MTH 110 requirement has been fulfilled. If MTH 110 is needed, students should take the course in the first semester in place of the chemistry option and move chemistry to the winter semester in place of the elective option.

<table>
<thead>
<tr>
<th>Year One</th>
<th>Year Two</th>
<th>Year Three</th>
<th>Year Four</th>
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</thead>
</table>
| BIO 120 General Biology I  
Prerequisites: High school chemistry, CHM 109, or CHM 115 strongly recommended (CHM 109 or 115 may be taken concurrently) See notes below regarding BIO 120/121 option | BIO 215 Ecology  
Prerequisite: BIO 120 and BIO 121 (BIO 120 may be taken concurrently)  
Roberts 214 and 220 recommended concurrent | NRM 451 Natural Resource Policy  
Prerequisite: Junior Standing  
NRM 451/Gen Ed: WRT 098 – choose two  
Elective – choose any 1 credit course to reach 15 for the semester  
Total 15 | BIO 460 Terrestrial Ecosystem Ecology  
Prerequisites: BIO 215; NRM 281 recommended  
NRM Upper Level Elective  
NRM Upper Level Elective  
Gen Ed  
Total 15 |
| NRM 250 Resource Measurements and Maps  
NRM 281 Principles of Soil Science  
Gen Ed  
Elective – choose any 1 credit course to reach 15 for the semester | NRM Analytical Elective – Choose from:  
NRM 320 Introduction to Resource Systems  
NRM 395 GIS Application in Resource Management | NRM Upper Level Electives  
Gen Ed w/SWS designation  
Gen Ed or Elective  
Total 15-16 | Total 15-16 |
| ★NRM 150/Gen Ed/WRT 098 – choose two  
Total 15 | ★NRM 150 Introduction to Natural Resources  
OR Gen Ed  
MTH 122 College Algebra OR MTH 123 Trigonometry OR  
MTH 125 Survey of Calculus OR MTH 201 Calculus 1  
Prerequisite: proficiency through math placement – see notes below regarding math placement | Gen Ed  
STA 215 Introductory Applied Statistics  
Prerequisite: MTH 110 or equivalent  
ECO 211 Introductory Microeconomics  
Prerequisites: MTH 110 or MTH 122 or MTH 201, soph standing | Total 15-16 |
| ★NRM 150 can be taken in either semester during the first year. | ★NRM 150 can be taken in either semester during the first year. | ★NRM 150 can be taken in either semester during the first year. | ★NRM 150 can be taken in either semester during the first year. |

**Total** 15/16

*The block tuition rate is for 12-15 credits. You will pay additional tuition for any credits over 15.

A total of 120 credits are required for graduation. Please supplement your schedule with elective courses to reach the required 120 credits.

*Students who have fulfilled the MTH 122 or 123 requirement based on ACT or SAT scores are still required to complete a college level mathematics course higher than MTH 110. Students should choose from MTH 125 or MTH 201.

*Students who have an ACT science sub-score of 22 and below should start with BIO 121.
NRM majors must complete a total of 36 credits of NRM courses with a GPA of 2.0 or better. Please see reverse for additional NRM options.

³Students should consider adding a complementary minor or certificate—speak with an academic advisor to discuss options.

Declaring the Natural Resources Management Major:
1. Log into myBanner from the GVSU homepage
2. Once logged in select “Student,” “Student Records,” and then “Change Major”
3. Click on the “Change Major 1/Program” box
4. Click on the down arrow in the box next to “New Major 1/Program,” from here scroll down and choose “Natural Resource Management-BS”
5. Click “Submit” and then “Change to New Program”

General Education Overlap

| General Education Categories fulfilled by the Natural Resources Management Major: |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Life Sciences with Lab: BIO 120 | Physical Sciences with Lab: CHM 109 or CHM 115 |
| Mathematical Sciences: MTH 122, 123, 125, 201 or STA 215 | Social and Behavioral Sciences: ECO 211 |
| Issues: NRM 451, ECO 345 |

Natural Resources Management Cognate Requirements

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MTH 122 College Algebra</td>
</tr>
<tr>
<td>OR MTH 123 Trigonometry</td>
</tr>
<tr>
<td>OR MTH 125 Survey of Calculus</td>
</tr>
<tr>
<td>OR MTH 201 Calculus I</td>
</tr>
<tr>
<td>BIO 120 General Biology I</td>
</tr>
<tr>
<td>BIO 121 General Biology II</td>
</tr>
<tr>
<td>BIO 215 Ecology</td>
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</table>

Natural Resources Management Competency Requirements

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>NRM 150 – Introduction to Natural Resources Management (3 cr)</td>
</tr>
<tr>
<td>NRM 250 – Resource Measurements and Maps (3 cr)</td>
</tr>
<tr>
<td>NRM 281 – Principles of Soil Science (4 cr)</td>
</tr>
<tr>
<td>NRM 451 – Natural Resource Policy (3 cr)</td>
</tr>
<tr>
<td>NRM Capstone (495 or 496+497) (4 cr)</td>
</tr>
</tbody>
</table>

Analytical – Choose one course from:

- NRM 395 – GIS Applications in Resource Management (prerequisites: GPY 307 or NRM 250) |

Upper Level Resource Management Options – choose at least 10 credits from the following:

- NRM/BIO 386 – Ecological Restoration and Management (4 cr) NRM students should choose the NRM option when registering (prerequisites: BIO 215) — Fall only |
- NRM/BIO 408 – Wildlife Management (4 cr) NRM students should choose the NRM option when registering (prerequisites: BIO/NRM 308) — Fall only |
- NRM 420 – Wildland Recreation Management (3 cr) — Fall only |
- NRM 452 – Watershed and Wetland Management (4 cr) (prerequisites: MTH 122, NRM 150, NRM 250) — Fall only |
- NRM 462 – Forest Ecosystem Management (4 cr) (prerequisites: NRM 150, NRM 250) — Winter only |

Natural Resources Management Electives

NRM majors must complete a total of at least 36 credits of NRM courses with a GPA of 2.0 or better. Choose electives from the list below or choose additional Upper Level Resource Management options.

- NRM 240 Principles of Climatology (4 cr) |
- NRM 308 Wildlife Ecology (4 cr) (prerequisites: BIO 215) |
- NRM 380 Special Topics (also NRM 180, 280, 480) |
- NRM 399 Readings in Resource Management |
- NRM 407 NRM and Society: Study Abroad |
- NRM 415 Fire Ecology and Management |
- NRM 417 NRM International Field Studies |
- NRM 450 Applied Spatial Analysis of Natural Resources (3 cr) (prerequisites: NRM 395 or GPY 307) |
- NRM 486 Advanced Restoration Ecology (3 cr) (prerequisites: NRM/BIO 386) |
- NRM 490 Internship in Resource Management |
- NRM 499 Research in Resource Management |

Notes:
- NRM 180, 280, 380 and 480 are designations for a special topics class. You may take multiple classes with an NRM X80 designation because each class will cover a different topic.
- No more than 3 credits of NRM 399 (readings) will be counted towards the major.
- No more than 3 credits of NRM 499 (research) will be counted towards the major.
- No more than 5 credits of NRM 490 (internship) and NRM 499 (research) total can be applied to the major.