**FOREST RESOURCES MANAGEMENT B.S.**

*Bachelor of Science - Forestry; Forest Resources Mgmt Concentration*

W.A Franke College of Forestry & Conservation

Degree Specific Credits: 90

Required Cumulative GPA: 2.0

Catalog Year: 2017-2018

**General Education Requirements**

Information regarding these requirements can be found in the General Education Section (http://catalog.umt.edu/academics/general-education-requirements) of the catalog.

### Summary

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Required Courses</td>
<td>22</td>
</tr>
<tr>
<td>Outside Major Courses Required</td>
<td>24-27</td>
</tr>
<tr>
<td>Major Required Courses</td>
<td>26</td>
</tr>
<tr>
<td>Professional Electives</td>
<td>18</td>
</tr>
<tr>
<td>Biophysical Sciences</td>
<td></td>
</tr>
<tr>
<td>Management Application</td>
<td></td>
</tr>
<tr>
<td>Policy and Social Science</td>
<td></td>
</tr>
<tr>
<td>Measurement and Analysis</td>
<td></td>
</tr>
<tr>
<td>Writing within Major</td>
<td>14-15</td>
</tr>
<tr>
<td>Math within Major</td>
<td>4-6</td>
</tr>
<tr>
<td>Exception to the Modern/Classical Languages Requirement</td>
<td>3-4</td>
</tr>
<tr>
<td>Expressive Arts Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Social Science within Major</td>
<td>3</td>
</tr>
<tr>
<td>Ethical &amp; Human Values Elective within Major</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences within Major</td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td>126-133</td>
</tr>
</tbody>
</table>

**Major Required Courses**

**Rule:** Must take all courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORS 130</td>
<td>Intro Forestry Field Skills</td>
<td>2</td>
</tr>
<tr>
<td>FORS 201</td>
<td>Forest Biometrics</td>
<td>3</td>
</tr>
<tr>
<td>FORS 202</td>
<td>Forest Mensuration</td>
<td>3</td>
</tr>
<tr>
<td>FORS 240</td>
<td>Tree Biology</td>
<td>2</td>
</tr>
<tr>
<td>FORS 241N</td>
<td>Dendrology</td>
<td>3</td>
</tr>
<tr>
<td>FORS 250</td>
<td>Intro to GIS for Forest Mgt</td>
<td>3</td>
</tr>
<tr>
<td>NRSM 200</td>
<td>Nat.Resource Professional Wrtg</td>
<td>3</td>
</tr>
<tr>
<td>NRSM 210N</td>
<td>Soils, Water and Climate</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>22</td>
</tr>
</tbody>
</table>

Minimum Required Grade: C-

**Outside Major Courses Required**

**Rule:** Must take all courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOB 160N</td>
<td>Principles of Living Systems</td>
<td>3</td>
</tr>
<tr>
<td>BIOB 161N</td>
<td>Prncpls of Living Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHMY 121N</td>
<td>Introduction to General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>COMX 111A</td>
<td>Intro to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>or THTR 120A</td>
<td>Introduction to Acting I</td>
<td></td>
</tr>
<tr>
<td>ECNS 201S</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>M 151</td>
<td>Precalculus</td>
<td>4-6</td>
</tr>
<tr>
<td>M 121</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td>&amp; M 122</td>
<td>and College Trigonometry</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>24-27</td>
</tr>
</tbody>
</table>

Minimum Required Grade: C-

**Major Required Courses**

**Rule:** Must take all courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORS 320</td>
<td>Forest Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>FORS 330</td>
<td>Forest Ecology</td>
<td>3</td>
</tr>
<tr>
<td>FORS 340</td>
<td>Forest Product Manufacturing</td>
<td>2</td>
</tr>
<tr>
<td>FORS 341</td>
<td>Timber Harvesting &amp; Roads</td>
<td>3</td>
</tr>
<tr>
<td>FORS 349</td>
<td>Practice of Silviculture</td>
<td>3</td>
</tr>
<tr>
<td>FORS 440</td>
<td>Forest Stand Management</td>
<td>3</td>
</tr>
<tr>
<td>FORS 481</td>
<td>Forest Planning</td>
<td>3</td>
</tr>
<tr>
<td>NRSM 385</td>
<td>Watershed Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>NRSM 422</td>
<td>Nat Res Policy/Administration</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>26</td>
</tr>
</tbody>
</table>

Minimum Required Grade: C-

**Professional Electives**

**Rule:** Must take at least 18 total credits from the combined subcategories

**Note:** Must take 6 credits beyond major requirements to earn a minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOE 370</td>
<td>General Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOO 335</td>
<td>Rocky Mountain Flora</td>
<td></td>
</tr>
<tr>
<td>BIOO 433</td>
<td>Plant Physiology</td>
<td></td>
</tr>
<tr>
<td>FORS 333</td>
<td>Fire Ecology</td>
<td></td>
</tr>
<tr>
<td>FORS 342</td>
<td>Wood Anatomy, Properties, &amp; ID</td>
<td></td>
</tr>
<tr>
<td>NRSM 418</td>
<td>Ecosystem Climatology</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Minimum Required Grade: C-

**Biophysical Sciences**

Select at least one of the following:

- BIOE 370  General Ecology
- BIOO 335  Rocky Mountain Flora
- BIOO 433  Plant Physiology
- FORS 333  Fire Ecology
- FORS 342  Wood Anatomy, Properties, & ID
- NRSM 418  Ecosystem Climatology

**Total Hours**

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biophysical Sciences</td>
<td></td>
</tr>
<tr>
<td>Management Application</td>
<td></td>
</tr>
<tr>
<td>Policy and Social Science</td>
<td></td>
</tr>
<tr>
<td>Measurement and Analysis</td>
<td></td>
</tr>
<tr>
<td>Writing within Major</td>
<td>14-15</td>
</tr>
<tr>
<td>Math within Major</td>
<td>4-6</td>
</tr>
<tr>
<td>Exception to the Modern/Classical Languages Requirement</td>
<td>3-4</td>
</tr>
<tr>
<td>Expressive Arts Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Social Science within Major</td>
<td>3</td>
</tr>
<tr>
<td>Ethical &amp; Human Values Elective within Major</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences within Major</td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td>126-133</td>
</tr>
</tbody>
</table>
Forest Resources Management B.S.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WILD 370</td>
<td>Wildlife Habitat Cons &amp; Mgmt</td>
</tr>
<tr>
<td></td>
<td>Total Hours 3</td>
</tr>
</tbody>
</table>

Minimum Required Grade: C-

Management Application

Select at least two of the following: 4-6

- FORS 230 Fire Management & Environmental Change
- FORS 232 Forest Insects & Diseases
- FORS 331 Wildland Fuel Management
- FORS 434 Advanced Forest Roads
- FORS 435 Advanced Timber Harvesting
- NRSM 360 Rangeland Mgt (equiv 260)
- WILD 275 Wildlife Conservation

Total Hours 4-6

Minimum Required Grade: C-

Policy and Social Science

Select at least one of the following: 3

- ENST 230H Nature and Society
- FORS 436 Project Appraisal
- NASX 303E Ecol Persp in Nat Amer Trad
- NRSM 370S Wildland Conserv Pol/Governance
- NRSM 379 Collab in Nat Res Decisions
- NRSM 389E Ethics Forestry & Conservation
- NRSM 424 Community Forestry & Conservtn
- NRSM 425 Nat Res & Envir Economics
- NRSM 426 Climate and Society
- NRSM 475 Environment & Development
- PTRM 217S Parks & Outdoor Rec. Mgmt.
- PTRM 300 Recreation Behavior
- PTRM 310 Nat Res Interp and Comm
- PTRM 380 Rec Admin & Leadership
- PTRM 451 Tourism & Sustainability
- PTRM 482 Wilderness & Protctd Area Mgt

Total Hours 3

Minimum Required Grade: C-

Measurement and Analysis

Select at least one of the following: 2-3

- FORS 350 Forestry Apps of GIS
- FORS 351 Env Remote Sensing
- GEO 421 Hydrology

Total Hours 2-3

Minimum Required Grade: C-

Writing within Major

Rule: Must complete the following subcategories

15 Total Credits Required

Lower Division Writing

Rule: All are required

- NRSM 200 Nat.Resource Professional Wrtg 3
- WRIT 101 College Writing I 3

Total Hours 6

Minimum Required Grade: C-

Upper Division Writing

Select at least three of the following: 8-9

- FORS 330 Forest Ecology
- FORS 340 Forest Product Manufacturing
- FORS 341 Timber Harvesting & Roads
- FORS 349 Practice of Silviculture

Total Hours 8-9

Minimum Required Grade: C-

Math within Major

Select one of the following: 4-6

- M 151 Precalculus
- M 121 College Algebra & M 122 and College Trigonometry

Total Hours 4-6

Minimum Required Grade: C-

Exception to the Modern/Classical Languages Requirement

Rule: The Forestry major has been granted an exception to the Modern/Classical Language Requirement. Must take one of the following courses to will satisfy this requirement.

- FORS 201 Forest Biometrics 3-4
- or STAT 216 Introduction to Statistics

Total Hours 3-4

Minimum Required Grade: C-

Expressive Arts Requirement

- COMX 111A Intro to Public Speaking 3
- or THTR 120A Introduction to Acting I

Total Hours 3

Minimum Required Grade: C-

Social Science within Major

Rule: Must take the following course

- ECNS 201S Principles of Microeconomics 3

Total Hours 3
Ethical & Human Values Elective within Major

Rule: Can take the elective course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSM 389E</td>
<td>Ethics Forestry &amp; Conservation</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 3

Minimum Required Grade: C-

Natural Sciences within Major

Select at least two of the following including a lab course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOB 160N</td>
<td>Principles of Living Systems</td>
</tr>
<tr>
<td>BIOB 161N</td>
<td>Prncpls of Living Systems Lab</td>
</tr>
<tr>
<td>CHMY 121N</td>
<td>Introduction to General Chemistry</td>
</tr>
<tr>
<td>FORS 241N</td>
<td>Dendrology</td>
</tr>
<tr>
<td>NRSM 210N</td>
<td>Soils, Water and Climate</td>
</tr>
</tbody>
</table>

Total Hours 6

Minimum Required Grade: C-