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

Major Required Courses 22
Outside Major Courses Required 24-27
Major Required Courses 26
Professional Electives 18

Biophysical Sciences
Management Application
Policy and Social Science
Measurement and Analysis
Writing within Major 14-15
Math within Major 4-6
Exception to the Modern/Classical Languages Requirement 3-4
Expressive Arts Requirement 3
Social Science within Major 3
Ethical & Human Values Elective within Major 3
Natural Sciences within Major 6
Total Hours 126-133

Major Required Courses
Rule: Must take all courses

FORS 130 Intro Forestry Field Skills 2
FORS 201 Forest Biometrics 3
FORS 202 Forest Mensuration 3
FORS 240 Tree Biology 2
FORS 241N Dendrology 3
FORS 250 Intro to GIS for Forest Mgt 3
NRSM 200 Nat.Resource Professional Wrtg 3
NRSM 210N Soils, Water and Climate 3
Total Hours 22
Minimum Required Grade: C-

Outside Major Courses Required
Rule: Must take all courses

BIOB 160N Principles of Living Systems 3
BIOB 161N Prncpls of Living Systems Lab 1
CHMY 121N Introduction to General Chemistry 3
COMX 111A Intro to Public Speaking or THTR 120A Introduction to Acting I 3
ECNS 201S Principles of Microeconomics 3
Select one of the following: 4-6
M 151 Precalculus
M 121 College Algebra
& M 122 and College Trigonometry
Select one of the following: 4-5
M 162 Applied Calculus
PHSX 205N & PHSX 206N College Physics I and College Physics I Laboratory
WRIT 101 College Writing I 3
Total Hours 24-27
Minimum Required Grade: C-

Major Required Courses
Rule: Must take all courses

FORS 320 Forest Environmental Economics 3
FORS 330 Forest Ecology 3
FORS 340 Forest Product Manufacturing 2
FORS 341 Timber Harvesting & Roads 3
FORS 349 Practice of Silviculture 3
FORS 440 Forest Stand Management 3
FORS 481 Forest Planning 3
NRSM 385 Watershed Hydrology 3
NRSM 422 Nat Res Policy/Administration 3
Total Hours 26
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
Minimum Required Grade: C-

18 Total Credits Required

Biophysical Sciences
Select at least one of the following: 3

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
**Forest Resources Management B.S.**

### Management Application

Select at least two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORS 230</td>
<td>Fire Management &amp; Environmental Change</td>
</tr>
<tr>
<td>FORS 232</td>
<td>Forest Insects &amp; Diseases</td>
</tr>
<tr>
<td>FORS 331</td>
<td>Wildland Fuel Management</td>
</tr>
<tr>
<td>FORS 434</td>
<td>Advanced Forest Roads</td>
</tr>
<tr>
<td>FORS 435</td>
<td>Advanced Timber Harvesting</td>
</tr>
<tr>
<td>NRSM 360</td>
<td>Rangeland Mgt (equiv 260)</td>
</tr>
<tr>
<td>WILD 275</td>
<td>Wildlife Conservation</td>
</tr>
</tbody>
</table>

Total Hours: **4-6**

Minimum Required Grade: C-

### Policy and Social Science

Select at least one of the following:

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

Total Hours: **3**

Minimum Required Grade: C-

### Measurement and Analysis

Select at least one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORS 350</td>
<td>Forestry Apps of GIS</td>
</tr>
<tr>
<td>FORS 351</td>
<td>Env Remote Sensing</td>
</tr>
<tr>
<td>GEO 421</td>
<td>Hydrology</td>
</tr>
</tbody>
</table>

Total Hours: **2-3**

Minimum Required Grade: C-

### Writing within Major

**Rule:** Must complete the following subcategories

- **Lower Division Writing**
  - 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:
    - 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:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>M 151</td>
<td>Precalculus</td>
</tr>
<tr>
<td>M 121 &amp; M 122</td>
<td>College Algebra and College Trigonometry</td>
</tr>
</tbody>
</table>

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
  - or STAT 216 Introduction to Statistics 3

Total Hours: **3-4**

Minimum Required Grade: C-

### Expressive Arts Requirement

<table>
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<th>Course Code</th>
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<tbody>
<tr>
<td>COMX 111A</td>
<td>Intro to Public Speaking</td>
</tr>
<tr>
<td>or THTR 120A</td>
<td>Introduction to Acting I</td>
</tr>
</tbody>
</table>

Total Hours: **3**

Minimum Required Grade: C-

### Social Science within Major

**Rule:** Must take the following course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECNS 201S</td>
<td>Principles of Microeconomics</td>
</tr>
</tbody>
</table>
Minimum Required Grade: C-

**Ethical & Human Values Elective within Major**

**Rule:** Can take the elective course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSN 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 Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOB 160N</td>
<td>Principles of Living Systems</td>
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<tr>
<td>BIOB 161N</td>
<td>Prncpls of Living Systems Lab</td>
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<td>FORS 241N</td>
<td>Dendrology</td>
</tr>
<tr>
<td>NRSN 210N</td>
<td>Soils, Water and Climate</td>
</tr>
</tbody>
</table>

Total Hours: 6

Minimum Required Grade: C-