

**Bachelor of Science**

# **Recreation Resource Management**



## **Undergraduate Advising Guide 2016-2017**

**Forest Ecosystems & Society  
Department Office — 321 Richardson Hall  
541-737-2244  
Advising Office –Snell Hall 4<sup>th</sup> Floor**

## About Recreation Resource Management

The United States devotes more of its public lands to recreation use than any other country, so it's natural that land managers are concerned with the planning, management, and overall sustainability of these unique recreation resources. For 30 years, the OSU Recreation Resource Management (RRM) program has been preparing students to meet the challenges of providing quality outdoor recreation opportunities to visitors. If you care about the ecological integrity of our natural resources and you want to ensure that you and future generations will be able to enjoy them, the RRM program is for you!

While you're here, you will study recreation behavior, recreation planning and management, communication, wilderness management, resource economics, resource ecology and conservation, and resource analysis and policy. In addition, there are 5 options and 11 minors to help you narrow your focus. If you're thinking about starting your own whitewater rafting business, for example, then perhaps a minor in Business & Entrepreneurship is for you. Or, if you're interested in anthropology and history, you may want to choose the Cultural Resources Management option. If you want to give others new understanding and insights into the natural world, you might select an Environmental Resource Interpretation option. We also have a popular Law Enforcement option. You can even develop your own individualized specialty option.

Many laboratory courses take place in the College of Forestry's Research Forests. Students can also apply for national and international exchange programs for travel and learning opportunities in such countries as New Zealand, Germany, and Spain.

RRM graduates find employment as managers and planners for federal agencies such as the U.S. Forest Service, the National Park Service, or the Bureau of Land Management. Others find positions as recreation consultants, recreation guides for river rafting and sea kayaking companies, or as rangers, naturalists, resource planners, environmental educators, wilderness managers, wildland law enforcement officers, ecotourism planners, or nature-based tourism specialists.

Come join us in the exciting task of managing some of the best real estate in America!

## **B.S. in Recreation Resource Management**

The Bachelor of Science (BS) in Recreation Resource Management prepares students to meet the challenges of providing quality recreation opportunities while maintaining the ecological integrity of natural resources. The curriculum produces students proficient in recreation behavior, recreation planning and management, environmental interpretation, wilderness management, resource economics, communication, and resource analysis and policy. The curriculum provides a mix of physical and social sciences, resource management (including wildlife, range, and forestry), and quantitative methods.

Completion of an approved option or minor is required for the Recreation Resource Management degree. Declaration of the option or minor should be done by the **end of the sophomore year**. Courses for an option or minor are in addition to the core curriculum. Some courses may require prerequisites not included in the core curriculum.

Currently approved minors include Business & Entrepreneurship, Fisheries & Wildlife, Forestry, Horticulture, Leadership, Natural Resources, Philosophy, Rangeland Ecology & Management, Resource Economics, Soil Science, and the GIS Certificate.

Courses required for an option may not count toward a minor. Students may not take an option and a minor from the same field of study.

Students may work with an academic advisor to develop an individualized specialty option (an individualized option is not transcript-visible).

## Academic Advising

The College of Forestry and the Department of Forest Ecosystems and Society are committed to helping students succeed. That includes assistance with identifying majors and minors, and understanding broader University rules and regulations. The RRM Academic Advisor and the COF Head Advisor are your first points of contact when you have questions. The College of Forestry Student Services Office is another valuable resource for University procedures, rules, and regulations.

This advising guide provides details of the RRM program not listed in the University Catalog, as well as helpful suggestions for your success as a student. The guide does not replace the need for regular quarterly visits with your advisor. A close association with your advisor will help you make the best choices to progress efficiently through the program. Your advisor is also a valuable resource for discussions about options to add extra value to your education through additional coursework, minors, additional degrees, or co-curricular experiences.

You should refer to your College of Forestry Undergraduate Handbook for detailed information about advising, including the rights and responsibilities inherent in the advisor/advisee relationship. The most current advising information, and appointment scheduling, is available online:

<http://undergrad.forestry.oregonstate.edu/advising>

### Who:



**Teri Morris**  
Academic Advisor  
Rec Resource Mgmt  
Snell 400  
541-737-1505  
[Teri.morris@oregonstate.edu](mailto:Teri.morris@oregonstate.edu)



**Nicole Kent**  
Head Advisor  
College of Forestry  
Snell 404  
541-737-1592  
[Nicole.kent@oregonstate.edu](mailto:Nicole.kent@oregonstate.edu)

### What:

You can expect your advising appointments to be 30 minutes of one-on-one time with your academic advisor. You and your advisor will both prepare in advance—reviewing your MyDegrees page, preparing questions, and looking ahead. During your appointment, you will review your progress to date, make course plans for the upcoming term(s), discuss opportunities and resources pertinent to your goals, and track your progress toward graduation.

While your advisor is here to assist and guide you, your educational choices are yours to make. We advise and you decide.

### When:

COF students are required to meet with their academic advisor at least once per quarter, and are welcome to meet more often. Your advising appointments should occur around these holidays:

Fall Term	Halloween
Winter Term	Valentine's Day
Spring Term	Cinco de Mayo

It's always okay to call, email, or drop in with questions.

### How:

The easiest way to schedule your advising appointment is through our online system:

<https://booknow.appointment-plus.com/6rv0qd30/>. You can set up email and text reminders when you schedule your appointment. If you get stuck, you can always call or drop in!

## Requirements for Graduation

In addition to the University and degree program requirements, students in the College of Forestry (COF) must meet specific requirements to graduate. Unless noted, the following apply to all undergraduate programs in the College of Forestry.

- **S/U Grading:** Students majoring in COF degree programs may not take for S/U grading (Satisfactory/Unsatisfactory) any course listed as a requirement for the major, or for the minor or option. This includes approved substitutions. Baccalaureate core courses may be taken S/U unless they are also being used to fulfill a program requirement.
  - *Note: The Natural Resources major allows up to two S/U grade courses in the Core, Breadth, or Option. Advisor approval is required.*
- **Speech:** COF students are required to take COMM 111 or COMM 114 to fulfill the Speech Baccalaureate Core requirement, and the course cannot be S/U graded.
  - *Note: RRM students may also take COMM 218 to fulfill the Speech requirement.*
- **Grades of C- or better** must be earned in all COF courses (FE, FES, FOR, NR, WSE) or their approved substitutions for majors, minor and options in COF degree programs.
  - *Note: C- or better must be earned in upper-division Core and Breadth courses for Natural Resources majors.*
- **Approved Work Experience:** Six months of documented work experience is required in the Recreation Resource Management major. Information about work experience is available here: <http://workexperience.forestry.oregonstate.edu/>. Students must submit documentation of work experience prior to their last term at OSU. Failure to do so may result in delayed graduation.

## Recreation Resource Management Curriculum

<http://catalog.oregonstate.edu/MajorDetail.aspx?major=460&college=05>

Completion of an approved option or minor is required for the Recreation Resource Management degree. Declaration of the option or minor should be done by the end of the sophomore year. Courses for an option or minor are in addition to the core curriculum. Some courses may require prerequisites not included in the core curriculum. Choice of option or minor must be approved by an academic advisor.

The following five options are only available to students majoring in Recreation Resource Management:

1. Cultural Resource Management
2. Environmental Resource Interpretation
3. Law Enforcement
4. Public Policy
5. Resource Planning

Students may work with an academic advisor to develop their own individualized specialty option (ISO).

Approved minors include:

- Business & Entrepreneurship
- Fisheries & Wildlife
- Forestry
- Horticulture
- Leadership
- Natural Resources
- Philosophy
- Rangeland Ecology & Management
- Resource Economics
- Soil Science
- GIS Certificate

Courses required for an option may not count toward a minor. Students may not take an option and a minor from the same field of study.

### First Year (43-45)

COMM 111. \*Public Speaking (3)

or COMM 114. \*Argument and Critical Discourse (3)

or COMM 218. \*Interpersonal Communication (3)

AEC 250. \*Introduction to Environmental Economics and Policy (3)

or ECON 201. \*Introduction to Microeconomics (4)

FOR 111. Introduction to Forestry (3)

or NR 201. Managing Natural Resources for the Future (3)

FOR 112. Introduction to Computer Applications in Forestry (3)

FES 251. Recreation Resource Management (4)

HHS 231. \*Lifetime Fitness for Health (2)

HHS 241-HHS 248. \*Lifetime Fitness (1) or any PAC course (1-2)

MTH 245. \*Mathematics for Management, Life, and Social Sciences (4)

WR 121. \*English Composition (3)

\*Writing II course (3)

\*Baccalaureate Core Courses (6)

Electives/option/minor (8)

### **Sophomore Year (42–44)**

FE 257. GIS and Forest Engineering Applications (3)  
or GEO 365. Introduction to Geographic Information Systems (4)  
or GEOG 360. GIScience I: Geographic Information Systems & Theory (4)  
FES 240. \*Forest Biology (4)  
FES 241. Dendrology (3)  
ST 201. Principles of Statistics (4)  
or ST 351. Introduction to Statistical Methods (4)  
\*Baccalaureate Core Courses (17)  
Electives/option/minor (8)

#### ***Natural Resource Systems Block (Choose one course for 3–4 credits)***

CSS 205. \*Soil Science (4)  
or SOIL 205. \*Soil Science (3) and SOIL 206. \*Soil Science Lab (1)  
FE 430. Watershed Processes (4)  
FES 452. Biodiversity Conservation in Managed Forests (3)  
FOR 441. Silviculture Principles (4)  
FOR 436. Wildland Fire Science and Management (4)  
FOR 446. Wildland Fire Ecology (3)  
FW 251. Principles of Fish and Wildlife Conservation (3)  
FW 479. Wetlands and Riparian Ecology (3)  
GEO 307. \*National Park Geology and Preservation (3)  
GEO 420 or GEOG 431. Resilience-Based Natural Resource Management (3)  
RNG 341. Rangeland Ecology and Management (3)  
RNG 355. Desert Watershed Management (3)  
RNG 421. Wildland Restoration and Ecology (4)  
RNG 455. Riparian Ecology and Management (3)

### **Junior Year (42-47)**

AEC 351. \*Natural Resource Economics and Policy (3)  
or AEC 352. \*Environmental Economics and Policy (3)  
or FOR 330. Forest Resource Economics I (4)  
FES 351. Outdoor Recreation Management on Public Lands (3)  
FES 352. Wilderness Management (3)  
or FES 357. Parks and Protected Areas Management (3)  
FES 422. Research Methods in Social Science (4)  
FOR 441. Silviculture Principles (4)  
or FES 452. Biodiversity Conservation in Managed Forests (3)  
\*Baccalaureate Core Course (3-4)  
Electives/option/minor (18)

#### ***Technical/Field Skills Block (Choose one course for 2–4 credits)***

ANTH 430. Topics in Archaeology (*topics must be pre-approved*) (1–4)  
ANTH 497. Archaeological Field Methods (3)  
COMM 280. Media Communication in the Information Age (3)  
CS 195. Website Design (4)  
FE 208. Forest Surveying (4)  
FE 257. GIS and Forest Engineering Applications (3)  
FW 255. Field Sampling of Fish and Wildlife (3)  
FW 426. Coastal Ecology and Resource Management (*HMSC campus*) (5)  
GEOG 201. Foundations of Geospatial Science and GIS (4)  
GEO 301. Map and Image Interpretation (4)  
GEO 352. \*Oregon: Geology, Place, and Life on the Ring of Fire (4)  
GEO 360. Cartography (4)  
GEOG 370. Geovisualization: Cartography (4)  
GEO 444. Remote Sensing (4)  
GEO/GEOG 465. Geographic Information Systems and Science (4)

GEOG 480. Remote Sensing I: Principles and Applications (4)  
***Communications and Negotiations Block (Choose one course for 3 credits)***  
COMM 211. Communicating Online (3)  
COMM 316. Advanced Persuasion (3)  
COMM 322. Small-Group Problem Solving (3)  
COMM 324. Communication in Organizations (3)  
COMM 326. Intercultural Communication (3)  
COMM 328. Nonverbal Communication (3)  
COMM 432. Gender and Communication (3)  
COMM 440. Theories of Conflict and Conflict Management (3)  
COMM 442. Bargaining and Negotiation Processes (3)  
FES 485. Consensus and Natural Resources (3)

**Senior Year (46-50)**

FES 432. Economics of Recreation and Tourism (4)  
FES 453. Nature-Based Tourism (3)  
    or FES 353. Nature, Eco, and Adventure Tourism (3)  
FES 456. Planning for Sustainable Recreation (4)  
    or FES 457. Planning for Sustainable Tourism (4)  
FES 493. Environmental Interpretation (4)  
FOR 460. ^Forest Policy (4)  
Electives/option/minor (15)

***Research/Analytical Techniques Block (Choose one course for 3–5 credits)***

ANTH 371. Research Methods in Cultural Anthropology (4)  
ANTH 422. Historic Materials Analysis (3)  
ANTH 430. Topics in Archaeology (1–4)  
ANTH 490. Topics in Methodology (1–4)  
ANTH 492. Archaeological Laboratory Methods (1–3)  
COMM 414. Communication Research Methods (3)  
ES 453. \*Ethnohistory Methodology (4)  
FES/FW 445. Ecological Restoration (4)  
FOR 457. Techniques for Forest Resource Analysis (4)  
FW 426. Coastal Ecology and Resource Management (*HMSC campus*) (5)  
GEO 350 \*Population Geography (3)  
GEO 444. Remote Sensing (4)  
GEO/GEOG 465. Geographic Information Systems and Science (4)  
GEOG 480. Remote Sensing I: Principles and Applications (4)  
H 490. \*Systems Thinking and Practice (4)  
HSTS 419. \*^Studies in Scientific Controversy: Methods and Practices (4)  
NR 312. Critical Thinking for Natural Resource Challenges  
PSY 301. Research Methods in Psychology (4)  
SOC 418. Qualitative Research Methods (4)  
ST 351. Introduction to Statistical Methods (4)  
ST 411. Methods of Data Analysis (4)  
SUS 304. \*Sustainability Assessment (4)

***Social Science and Policy Block (Choose two courses for 6–8 credits)***

AEC 253. \*Environmental Law, Policy, and Economics (4)  
AEC 432. Environmental Law (4)  
AG 301. \*Ecosystem Science of Pacific NW Indians (3)  
ANS/FES/FW/SOC 485. \*Consensus and Natural Resources (3)  
ANTH 435. Cultural Resources: Policy and Procedures (3)  
ANTH 477. Ecological Anthropology (4)  
ANTH 478. Anthropology of Tourism (4)

ANTH 481. \*Natural Resources and Community Values (3)  
ES 444. Native American Law: Tribes, Treaties, and the United States (4)  
FES/NR/RNG 477. \*Agroforestry (3)  
FOR 462. Natural Resource Policy and Law (3)  
FW 340. \*Multicultural Perspectives in Natural Resources (3)  
FW 350. \*Endangered Species, Society and Sustainability (3)  
FW 421. Aquatic Biological Invasions (*HMSC campus*) (4)  
GEO 335 or GEOG 340. \*Introduction to Water Science and Policy (3)  
PS 475. Environmental Politics and Policy (*Distance Ed only*) (4)  
PS 477. International Environmental Politics and Policy (4)  
SOC 454. \*Leisure and Culture (4)  
SOC 475. Rural Sociology (4)  
SOC 480. \*Environmental Sociology (4)  
SOC 481. \*Society and Natural Resources (4)  
WGSS 450. Ecofeminism (3)

**Students are required to complete 6 months of work experience.**

**Footnotes:**

- \* Baccalaureate Core Course
- ^ Writing Intensive Course (WIC)

## Recreation Resource Management Options

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### Cultural Resource Management Option

#### Required Courses:

- ANTH 110. \*Introduction to Cultural Anthropology (3)
- ANTH 330. \*Evolution of People, Technology, and Society (3)
- ANTH 435. Cultural Resources: Policy and Procedures (3)

#### Plus two courses from each of the following groups:

##### Anthropology (at least 2 courses)

- ANTH 230. Time Travelers (3)
- ANTH 380. \*Cultures in Conflict (3)
- ANTH 432. \*The Archaeology of Domestication and Urbanization (3)
- ANTH 433. First Americans, Last Frontiers (3)
- ANTH 436. Northwest Prehistory (3)
- ANTH 472. Contemporary Indian Issues (4)
- ANTH 481. \*Natural Resources and Community Values (3)
- ES 243. \*Native American Assimilation and Activism (4)
- ES 323. Contemporary African American Social Discourse (4)
- ES 351. \*Ethnic Minorities in Oregon (4)

##### History (at least 2 courses)

- HST 467, HST 468. History of the American West (4,4)
- HST 469. History of the Pacific Northwest (4)
- HST 481. \*Environmental History of the U.S. (4)
- HSTS 418. \*Science and Society (4)
- HSTS 421. \*Technology and Change (4)

#### Total=23–24 credits

Students who have taken one or more of these courses for their major may not also count those courses toward their Cultural Resource Management option (i.e., no double counting).

#### Footnote:

- \* Baccalaureate Core Course

## Environmental Resource Interpretation Option

### Required Course:

ED 253. Learning Across the Lifespan (3)

### **Plus 18 credits from the following:**

ANTH 110. \*Introduction to Cultural Anthropology (3)

ANTH 230. Time Travelers (3)

ANTH 330. \*Evolution of People, Technology, and Society (3)

ANTH 430. Topics in Archaeology (1–4) (*Topics must be pre-approved*)

ANTH 433. First Americans, Last Frontiers (3)

ANTH 435. Cultural Resources: Policy and Procedures (3)

ANTH 452. Folklore and Expressive Culture (4)

BI 301. \*Human Impacts on Ecosystems (3)

BI 345. \*Introduction to Evolution (3)

BI 348. \*Human Ecology (3)

BI 351. Marine Ecology (3)

ES/PHL 448. Native American Philosophies (4)

FW 302. Biology and Conservation of Marine Mammals (*Taught at HMSC*) (3)

GEO 102. \*The Surface of the Earth (4)

GEO 307. \*National Park Geology and Preservation (3)

HST/HSTS. Upper-Division Course (3–4)

HST/HSTS. Upper-Division Course (3–4)

Z 349. \*Biodiversity: Causes, Consequences and Conservation (3)

**Total=21 credits**

Students who have taken one or more of these courses for their major may not also count those courses toward their Environmental Resource Interpretation option (i.e., no double counting).

### **Footnote:**

\* Baccalaureate Core Course

## Individualized Specialty Option

In the event that none of the approved options or minors match their interests and career goals, students may work with an academic advisor to develop their own Individualized Specialty Option (ISO). The ISO must consist of:

- A minimum of 21 credits of approved courses
- At least 15 of the 21 approved credits must be upper-division (300-400 level)
- ISO courses are in addition to the courses required for the RRM major. The same course may not be used to meet two requirements in the major.

### ISO Proposal and Approval Process

Students wishing to create an ISO for RRM must complete the *Individualized Specialty Option Petition* which is available from the academic advisor. The petition includes:

- Student information (name, OSU ID, email)
- Title of the Specialty Option
- List of proposed courses meeting the criteria listed above
- Goal of the Specialty Option
- Knowledge gained and skills learned through the proposed courses
- Employment opportunities related to the ISO

The petition is submitted to the academic advisor for their review and approval, and is then forwarded to the Department Head for final approval. Once approved, the ISO courses are entered into MyDegrees.

As with other RRM options, **the ISO must be declared and approved by the end of the sophomore year (and prior to the student completing the majority of the courses in the ISO)**. Failure to submit the ISO petition and secure approval can result in delayed graduation.

## **Law Enforcement Option**

### **Required Courses:**

COMM 440. Theories of Conflict and Conflict Management (3)

FW 341. Fish and Wildlife Law Enforcement (2)

PHL 205. \*Ethics (4)

SOC 340. Deviant Behavior and Social Control (4)

SOC 441. Criminology and Penology (4)

### ***Plus 1 to 2 courses from the following:***

FW 415. Fisheries and Wildlife Law and Policy (3)

SOC 424. Social Psychology (4)

SOC 426. \*Social Inequality (4)

SOC 437. Race and Ethnic Relations (4)

SOC 440. Juvenile Delinquency (4)

SOC 448. Law and Society (3)

### **Recommended Additional Requirements:**

Completion of a departmentally approved, off-campus law enforcement training program such as the Santa Rosa, California, Training Center (NPS oriented) or Skagit Valley College in Washington (state park oriented) is recommended.

**Total=21–24 credits**

### **Footnote:**

\* Baccalaureate Core Course

## **Public Policy Option**

### **Required Course:**

PS 201. \*Introduction to U.S. Government and Politics (4)

### ***Plus 5 courses from the following:***

ECON 435. Public Economics (4)

PS 314. Interest Group Politics (4)

PS 315. The Politics of Media (4)

PS 316. Public Opinion and Politics (4)

PS 371. Public Policy Problems (4)

PS 475. Environmental Politics and Policy (4)

PS 476. \*Science and Politics (4)

PS 477. International Environmental Politics and Policy (4)

PS 479. Topics in Public Policy and Public Administration (4)

### **Total=24 credits**

Students who have taken one or more of these courses for their major may not also count those courses toward their Public Policy option (i.e., no double counting).

### **Footnote:**

\* Baccalaureate Core Course

## Resource Planning Option

### Required Courses:

- GEOG 201. Foundations of Geospatial Science and GIS (4)  
or GEO 301. Map and Image Interpretation (4)  
GEO 420 or GEOG 430. Resilience-Based Natural Resource Management (3)  
GEO 423 or GEOG 450. Land Use in the American West (3)

### ***Select two of the following courses:***

- AEC/ECON 352. \*Environmental Economics and Policy (3)  
FOR 421. Spatial Analysis of Forested Landscapes (3)  
GEO 360. Cartography (4)  
GEOG 370. Geovisualization I: Principles of Cartography (4)  
GEO 451. Environmental Site Planning (3)  
GEOG 451. Planning Principles and Practices for Resilient Communities (4)  
GEOG 452. Sustainable Site Planning (3)  
GEO 452. Principles and Practices of Rural and Resource Planning (3)  
GEO/GEOG 465. Geographic Information Systems and Science (3)

***Select two additional courses from the Social Science and Policy block from the Recreation Resource Management major OR two upper-division GEO/GEOG courses (GEO/GEOG courses must be pre-approved by the RRM academic advisor).***

### **Total=22–25 credits**

Students who have taken one or more of these courses for their major may not also count those courses toward their Resource Planning option (i.e., no double counting).

### **Footnote:**

\* Baccalaureate Core Course

## Course Planning Worksheet

### RRM Major Requirements – one course per category (70-74 credits)

Title	Course Number	Cr	Gr	Term/ Year	Notes
Communication	COMM 111 or COMM 114 or COMM 218	3 3 3			Fulfills Speech Bacc Core
Economics	ECON 201 or AEC 250	4 3			Fulfills Social Processes & Institutions Bacc Core
Intro to Forestry or Managing Natural Resources for the Future	FOR 111 NR 201	3			
Intro to Computing Applications in Forestry	FOR 112	3			
Recreation Resource Management	FES 251	4			
Mathematics for Management, Life, and Social Sciences	MTH 245	4			Also fulfills Math Bacc Core
GIS and Forest Engineering Applications or Intro to GIS or GIScience I	FE 257 or GEO 365 or GEOG 360	3			
Forest Biology	FES 240	4			Also fulfills Bio Sci Bacc Core
Dendrology	FES 241	3			
Statistics	ST 201 or ST 351	4 4			
NR Economics & Policy or Environmental Economics & Policy or Forest Resource Economics I	AEC 351 or AEC 352 or FOR 330	3 3 4			
Outdoor Recreation Management on Public Lands	FES 351	4			
Wilderness Management or Parks & Protected Areas Mgmt	FES 352 or FE 357	3			
Research Methods in Social Science	FES 422	4			
Silvicultural Principles or Biodiversity Conservation in Managed Forests	FOR 441 or FES 452	3 3			
Economics of Recreation Resources	FES 432	4			
Nature, Eco, and Adventure Tourism or Nature-Based Tourism	FES 353 or FES 453	3			
Forest Policy	FOR 460	4			Writing Intensive Course
Planning for Sustainable Recreation or Planning for Sustainable Tourism	FES 456 or FES 457	4 4			Capstone course
Environmental Interpretation	FES 493	4			

### RRM Blocks (17-24 credits)

Title	Course Number	Cr	Gr	Term/ Year	Notes
Natural Resource Systems	Choose from the list	3-4			One course
Technical/Field Skills	Choose from the list	2-4			One course
Communication & Negotiation	Choose from the list	3-4			One course
Research/Analytical Techniques	Choose from the list	3-4			One course
Social Science and Policy	Choose from the list	6-8			Two courses

### Option/Minor (21-25 credits)

Title	Course Number	Cr	Gr	Term/ Year	Notes



## Recreation Resource Management Sample Course Plan

This is a sample schedule. Actual schedules will vary from student to student based upon factors such as math placement, course availability, and option/minor selection. Students are strongly encouraged to create a personalized plan with their academic advisor.

### Freshman Year (41-45 credits)

Fall Term			Winter Term			Spring Term		
Course	Description	Cr	Course	Description	Cr	Course	Description	Cr
FOR 111 or NR 201	Introduction to Forestry or Managing NR for the future	3	FOR 112	Computing Apps in Forestry	3	MTH 245	Math for Management, Life, and Social Sciences	4
FES 251	Recreation Resource Management	4		Bacc Core course	3	ECON 201 or AEC 250	Intro to Microeconomics or Intro to Environmental Economics and Policy	3-4
WR 121	English Comp. [BC]	3	WR II	Various Courses [BC]	3	COMM 111,114 ,or 218	Communication [BC]	3
	Bacc Core course	3	HHS 231*	Lifetime Fitness for Health[BC]	2	HHS 241-248*	Lifetime Fitness: Activity [BC]	1-2
				Elective course	3-4		Elective course	3-4
<b>Term Total</b>		<b>13</b>	<b>Term Total</b>		<b>14-15</b>	<b>Term Total</b>		<b>14-17</b>

### Sophomore Year (42-44 credits)

Fall Term			Winter Term			Spring Term		
Course	Description	Cr	Course	Description	Cr	Course	Description	Cr
FES 240	Forest Biology [BC]	4	FE 257 or GEO 365 or GEOG 360	GIS & Forest Engineering Applications	3-4	FES 241	Dendrology	3
	Elective course	4	ST 201 or ST 351	Principles of Statistics	4		Bacc Core course	3-4
	Bacc Core course	4		Bacc Core course	4		Elective course	4
	Bacc Core course	3		Bacc Core course	3		NR Systems Block	3-4
<b>Term Total</b>		<b>15</b>	<b>Term Total</b>		<b>14-15</b>	<b>Term Total</b>		<b>13-14</b>

### Junior Year (42-47 credits)

Fall Term			Winter Term			Spring Term		
Course		Cr	Course		Cr	Course		Cr
	Tech/Field Skills Block	2-4	FES 351	Outdoor Rec Mgmt on Public Lands	3		Option/Minor Course	4
	Bacc Core course	3-4	FES 352 or 357	Wilderness Management	3	FES 452 or FOR441	Biodiversity Conservation or Silvicultural Principles	3-4
	Option/Minor Course	4	FOR 330 or AEC 351 or AEC 352	Forest Conservation Economics	3-4		Option/Minor Course	4
	Option/Minor Course	3	FES 422	Research Methods in Social Science	4		Option/Minor Course	3
	Communication Block	3						
<b>Term Total</b>		<b>15-18</b>	<b>Term Total</b>		<b>13-14</b>	<b>Term Total</b>		<b>14-15</b>

### Senior Year (43-47 credits)

Fall Term			Winter Term			Spring Term		
Course		Cr	Course		Cr	Course		Cr
FOR 460	Forest Policy (WIC)	4	FES 493	Environmental Interpretation	4	FES 353 or FES 453	Nature, Eco & Adventure Tourism or Nature-Based Tourism	3
FES 457	Planning for Sustainable Tourism	4		Option/Minor Course	3		Option/Minor Course	3
FES 432	Economics of Recreation Resources	4		Research/Analytical Block	3-5		Social Science & Policy Block 2	3-4
	Social Science & Policy Block 1	3-4		Option/Minor Course	3		Option/Minor Course	3
							Option/Minor Course	3
<b>Term Total</b>		<b>15-16</b>	<b>Term Total</b>		<b>13-15</b>	<b>Term Total</b>		<b>15-16</b>

[BC] denotes courses that also fulfill a Baccalaureate Core requirement

A total of 180 credits is required to earn a B.S. degree. Students may need to add additional elective credits to this plan in order to meet that minimum.