June 2004

**FOREST ECOLOGY AND MANAGEMENT**
**ANR 443- Forest Conservation Track**
**Four Year Road Map**

1. Should complete at least 31 credits each year.
2. Should complete FOREST 655 (summer camp) before Junior year.

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**Freshman Year**

| Course | Credits | Course | Credits |
|---|---|---|---|
| BOTANY 130 General Botany | 5 | ZOOLOGY 101&102 Intro. Zoology | 5 |
| CHEM 108 or 109 General Chemistry | 5 | ECON 101 Microeconomics or | |
| MATH 112(3cr) &/or l13 (2cr) or 114(5cr) | | AAE 215 Intro. Agriculture Economics | 3-4 |
| Algebra & Trigonometry | 2-5 | International /Nat Resources Elect | 3-4 |
| FOREST 100 Introduction to Forestry | 2 | Communication Elective | 3 |
| | 14-17 | | 14-16 |

**Intersession**

[a]FOREST 655 Forestry Field Camp 3 cr.

**Sophomore Year**

| | | | |
|---|---|---|---|
| BOTANY 402 Tree Identification | 2 | FOREST 205 Intro. Computers in Nat. Res. | 2 |
| MATH 210 (3cr) Finite Math or 210 | | FOREST 300 Forest Measurements | 4 |
| or 221 (5cr) Calculus | 3-5 | STATIS 371 Statistics | 3 |
| SOILSCI 301 General Soil Science | 4 | Humanities/Social Science Electives | 6 |
| Ethnic Studies | 3 | Free Elective | 3 |
| Communications Elect. | 2-3 | | 18 |
| | 14-17 | | |

**Intersession**

[a]FOREST 655 Forestry Field Camp 3 cr.

**Junior Year**

| | | | |
|---|---|---|---|
| FOREST 550 Forest Ecology | 3-4 | FOREST 410 Silviculture | 4 |
| FOREST 415 Tree Physiology | 3 | GEOG 377 Intro. to GIS or CHEM 341 | 3-4 |
| [b]Track Elective | 6 | RURAL SOC 248 Env. Nat. Res. & Society | 3 |
| Humanities/Social Science Elective | 3 | [b]Track Electives | 6 |
| | 15-16 | | 16-17 |

**Senior Year**

| | | | |
|---|---|---|---|
| FOREST 500 Insects & Diseases | 4 | FOREST 652 Decision Methods | 4 |
| FOREST 590 Integrated Res. Management | 3 | FOREST 515 Renewable Resources Policy | 3 |
| [c]FOREST 699 Profess. Work Exp. | 1-2 | [b]Track Elective/ Free Elective | 6 |
| Free Elective | 3 | Humanities/Social science Elective | 3 |
| [b]Track Electives | 6 | | 16 |
| | 17-18 | | |

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[a]Altemate year course offering that may be taken at the end of the freshman or sophomore year
[b]Forest Conservation Track Electives (32 credits required). Choose from electives distributed across four areas. See advisor for details.
[c]All students must complete a departmentally approved professional work experience, which is usually taken during the summer between the junior and senior years
**NOTE: Students wishing to work towards an IES Certificate may wish to select their electives to match IES requirements.**

## Electives and Requirements for the Forest Conservation Track

Four courses are required: (14 credits)
- FOREST 300 (Forest Measurements),
- FOREST 402 (Tree Identification),
- FOREST 500 (Insects and Diseases),
- FOREST 652 (Decision Methods for Natural Resources Managers)

***plus*** 18 credits from the following subsets, including at least 3 credits from each subset.

a.) Plant Ecology and Diversity
- BOTANY 332 (Fungi),
- BOTANY 360 (Extinction of Species),
- BOTANY 430, (Tropical Plant Diversity)
- BOTANY 455 (Vegetation of Wisconsin),
- FOREST 415 (Tree Physiology),
- FOREST 565 (Principles of Landscape Ecology),
- FOREST 635 (Stand Dynamics),
- ENVIR ST 361 (Wetlands Ecology)

b.) Animal Ecology and Diversity
- ENTOM 302 (Introduction to Entomology),
- ENTOM 342 (Insect Ecology),
- ENTOM 473 (Plant-Insect Interactions),
- WLECOL 301 (Terrestrial Vertebrates),
- WLECOL 655 (Animal Population Dynamics),
- ZOOL 315/316 (Limnology),
- ZOOL 510/511 (Ecology of Fishes),
- ZOOL 520/521 (Ornithology)

c.) Conservation Biology
- BOTANY 422 (Plant Geography),
- GENETICS 466 Principles of Genetics),
- ZOOL 410 (Organic Evolution),
- ZOOL 651 (Conservation Biology)

d.) Natural Resource Management and Policy
- AAE 344 (Environmental Economics),
- FOREST 305 (Forest Operations),
- FOREST 330 (Recreation Resources Management),
- FOREST 430 (Agroforestry),
- FOREST 450 (Communities and Forests),
- FOREST 501 (Fire Behavior and Management),
- FOREST 657 (Spring Trip)
- GEOG 377 (Introduction to Geographic Information Systems),
- LANDARCH 666 (Restoration Ecology),
- SOILSCI 315 (Soils and Land Use Planning),
- WLECOL 527 (Ecosystem Management)