

2008-2009 Advising Checklist
Requirements for degree (BS) in ECOLOGY & CONSERVATION BIOLOGY
Natural Resource Ecology Option
College of Natural Resources

Name _____ High School _____ Advisor _____

Year Started UI _____

College Transferred from _____

| Course | Title (Prerequisites) | CR | Sem/ Yr | GR | Course | Title (Prerequisites) | CR | Sem/ Yr | GR |
|--|---|-----|---------|----|---|--|-----|---------|----|
| FIRST YEAR | | | | | THIRD YEAR | | | | |
| NR | 200 Seminar (perm) | 1 | S | | Engl | 317 Technical and Engineering Report Writing (Engl 102, Jr standing) | 3 | FS | |
| NR | 101 Exploring Natural Resources | 1 | F | | For** | 330 Forest Ecosystems Processes (Soil 205/6, Math 143 or 160, Phys 100 or 111) | 2 | F | |
| Chem | 101 Introduction to Chemistry I OR | 4 | FS | | For | 383 Econ/Nat Res Mgrs(Econ 202, Math 160, For 235) or | 3 | F/S | |
| Chem | 111 Principles of Chemistry I | | | | 383 Res. Econ for Env Policy (Econ 201 or 202) or | | | | |
| Biol | 115 Cells & Evol Life (co-req/pre-req Chem 101/111) | 4 | FS | | AgEc | 451 Land & NR Econ (AgEc301, Econ 352, or Perm.) or | | | |
| Comm | 101 Fundamentals of Public Speaking | 2 | FS | | Econ | 385 Environmental Econ (Econ 202 or 272 or Perm.) | | | |
| Engl | 102 College Writing and Rhetoric | 3 | FS | | Fish** | 316 Princ. of Population Dynamics (For/REM 221) | 2 | S | |
| Math | 160 Survey of Calculus (Scores or Math 143) OR | 4 | FS | | Wlf** | 316 OR Wildlife Ecol II (Wlf 314 & 315) | 4 | | |
| Math | 170 Analytic Geom/Calculus (Scores or Math 143) | 4 | FS | | Biol | 341 Systematic Botany (Biol 115 & 116) or | 3 | S | |
| Soil** | 205/206 General Soils and Lab (Chemistry 101) | 4 | FS | | For | 320 Dendrology (Biol 116 or perm) | 3 | S | |
| SECOND YEAR | | | | | FOURTH YEAR | | | | |
| Biol* | 116 Organisms & Environ. (Biol 115 & Chem 101) | 4 | FS | | CSS/Fish/ ForP/For/ NR/REM/ Wlf | 497 Senior Thesis | 1/2 | FS | |
| Biol * | 213 Princ of Biol Struc & Funct (Biol 115 & 116) | 4 | S | | | OR | | | |
| Econ | 202 Principles of Economics | 3 | FS | | | 485 Ecol & Cons Biol Project | 1/2 | FS | |
| For/CSS | 235 Society & Natural Resources | 3 | FS | | 483 Senior Project Presentation (Sr.) | 1 | FS | | |
| Stat* | 251 Principles of Statistics (Math 137, 143 or 160) | 3 | FS | | For/REM** | 429 Landscape Ecology of Forests and Rangelands | 3 | S | |
| For / REM* | 221 Ecology (Biol 115 or 116, 213 recommend) | 3 | FS | | ForP / For / Wlf | 470 Interdisc Natural Resource Planning (Sr., For/REM/221, For/CSS 235, or perm) | 3 | S | |
| Phys | 100 Fundamentals of Physics and Lab | 3/1 | FS | | | | | | |
| Quantitative Resource Analysis Restricted Electives - 2 courses (see back): | | | | | COURSES FOR UNIVERSITY OR STATE BOARD CORE | | | | |
| | | | | | Core | | 4/3 | | |
| | | | | | | SS | | | |
| | | | | | | H | | | |

- No upper division course may be taken while on probation.
- 36 upper division credits must be completed. Transfer courses are upper division if they were 300 or 400 level courses at a previous institution.
- NOTE: Students pursuing a B.S. in Ecology and Conservation Biology must receive a grade of C or better in each of the following 4 indicator courses to register in upper division courses in Fish/For/REM/CSS/Wlf and to graduate with a B.S. in either option: **Biol 116; Biol 213; Stat 251; For or REM 221.** *
 Biol 116 _____
 Biol 213 _____
 Stat 251 _____
- To graduate, a student must also achieve a "C" or better in each of these core Natural Resources Ecology option courses:
NR 200, Soil 205/206, Fish 316 or Wlf 316, For 330, For/REM 429
 For or REM 221 _____
- Before students are allowed to begin their senior thesis or project (497 or 485), they must attend two evening thesis/project sessions and one senior poster session.

| Course | | Title | CR | Sem/Yr. | GR |
|--|-----|--|----|---------|---------------------------------|
| Resource Management Restricted Electives (choose one course): | | | | | |
| Cons. Social Sciences | 385 | Conservation Management & Planning I (NR 101,CSS 287) | 3 | F | |
| Cons. Social Sciences | 490 | Wilderness and Protected Area Management | 3 | S | Offered alternate years/ Spring |
| Cons. Social Sciences | 496 | Monitoring Impacts in Protected Areas and Wilderness | 3 | S | Offered alternate years/ Spring |
| Fish | 418 | Fisheries Management (Fish 314 & 411, Statistics 251) | 4 | F | |
| Forest Resources *** | 424 | Forest Dynamics and Management (For 324 and 330) | 2 | F | |
| Forest Resources | 462 | Watershed Management (For or REM 221) | 2 | F | |
| REM | 454 | Rangeland Weed Management (recommend pre-req. PISc 338) Offered alt. yrs./ spring | 3 | S | |
| REM | 456 | Integrated Rangeland Management (REM 251) | 3 | S | |
| Wildlife | 492 | Wildlife Mgmt (Pre-req:Wlf 316,448, Biol 341 or equiv; pre-req or co-req: 2 of following: Fish 411, Biol 483, 484,Wlf 482) | 4 | S | |

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|--|-----|---|-----|----|--|
| Quantitative Resource Analysis Restricted Electives (choose two courses): | | | | | |
| Cons. Social Sciences | 310 | Social Research Methods in Conservation (Stat 251) | 4 | F | |
| Forest Resources | 375 | Introduction to Spatial Analysisfor Natural Resource Management (college algebra) | 3 | S | |
| For Res / REM | 472 | Remote Sensing of the Environment /Lab optional | 3-4 | F | |
| Forest Resources | 474 | Forest Inventory (Stat 251 and permission) | 3 | S | |
| Geography | 385 | GIS Primer | 3 | FS | |
| REM | 357 | Rangeland and Riparian Habitat Assessment (Stat 251) | 3 | F | |
| Statistics | 401 | Statistical Analysis (Statistics 251 or 271 or 301) | 3 | FS | |
| Statistics | 422 | Sampling Methods (Statistics 251 or 271 or 301) | 3 | S | |
| Wildlife | 448 | Fish & Wildlife Population Ecology (Stat 251, Fish/Wlf 316) | 4 | F | |

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|--|-----|--|---|---|------------------------|
| Ecology Restricted Electives (choose three courses - minimum 10 credits, 2 credits of which must be asterisked*** courses): | | | | | |
| Biology | 421 | Advanced Evolution/Population Dynamics (For/REM 221 or Biol 314, genetics recommended) | 3 | F | |
| Biology | 478 | Animal Behavior (Biol 115 & 116) | 3 | S | |
| Entomology | 472 | Aquatic Entomology/Lab | 3 | S | |
| Fish | 314 | Fish Ecology (For or REM 221 or Biol 314) | 3 | F | |
| Fish | 315 | Fish Ecology Lab (For or REM 221 or Biol 314, co-req Fish 314) | 1 | F | |
| Fish*** | 415 | Limnology (For or REM 221 or Biol 314 and Stat 251) | 4 | F | |
| Fish/REM*** | 430 | Riparian Ecology and Management (For or REM 221 or Biol 314) | 3 | | Check for when offered |
| Fish/REM*** | 435 | Wetland Ecology & Management (For or REM 221or Biol 314) | 3 | | Check for when offered |
| Forest Resources*** | 423 | Forest Community Ecology (For or REM 221 or Biol 341) | 1 | F | Check for when offered |
| Forest Resources | 426 | Wildland Fire Ecology and Management (For or REM 221) | 3 | F | |
| Forest Resources*** | 463 | Hydrologic Measurement Techniques (For 462) | 1 | F | |
| Forest Resources | 468 | Forest and Plant Pathology (For 320 and 330) | 2 | S | |
| Forest Resources | 469 | Introduction to Forest Insects (For or REM 221) | 2 | S | |
| Geog/REM | 450 | Global Environmental Change (Math 143 or Stat 251) | 3 | S | |
| MMBB | 425 | Microbial Ecology (MMBB 250, Math 137 or 143) | 3 | S | |
| Plant Science | 410 | Biology of Weeds (Biol 311) | 3 | F | |
| REM | 440 | Wildland Restoration Ecology (For or REM 221 or Biol 314) | 3 | S | |
| REM | 459 | Rangeland Ecology (For or REM 221 or Biol 314) | 2 | F | |
| REM *** | 460 | Rangeland Ecology Current Topics & Field Studies (For or REM 221 or Biol 314, co-req with REM 459) | 1 | F | |
| Wildlife | 314 | Wildlife Ecology I (For or REM 221 or Biology 314) | 3 | F | |
| Wildlife*** | 315 | Wildlife Ecology I Lab (For or REM 221 or Biology 314, co-req with Wlf 314) | 1 | F | |
| Wildlife | 440 | Conservation Biology (For or REM 221 or Biol 314, or perm) | 3 | F | |

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| Social/Political Restricted Electives (choose one course): | | | | | |
| Communication | 331 | Conflict Management | 3 | FS | |
| Cons. Social Sciences | 387 | Environmental Communication Skills (CSS 287 of permission) | 3 | F | |
| Cons. Social Sciences | 481 | Conservation Leadership | 3 | S | |
| Cons. Social Sciences | 486 | Public Involvement in Natural Resource Management (alternate years) | 3 | S | |
| Cons. Social Sciences | 489 | Personalities and Philosophies in Conservation | 2 | S | |
| Cons. Social Sciences | 493 | International Land Preservation & Conservation Systems | 3 | S | |
| Cons. Social Sciences | 494 | Public Relations for Natural Resource Professionals | 3 | F | |
| Forest Resources | 484 | Forest Policy and Administration | 2 | S | |
| History | 424 | American Environmental History | 3 | S | |
| Philosophy | 382 | Philosophy of Ecology | 3 | | Check for when offered |
| Philosophy | 452 | Environmental Philosophy | 3 | F | |
| Philosophy | 457 | Natural Resource Ethics | 3 | S | Offered alternate years / spring |
| Political Science | 364 | Politics of the Environment | 3 | F | |

Electives to total 128 credits.....