

Master of Science Program Planning Grid

Updated: 05/15/08

| | Core Courses | ESR 507 Seminar | Advanced Statistical Analysis | Area of Concentration | Elective & Supporting Courses | Thesis |
|-------------------|---|--|---|--|---------------------------------------|---|
| Credit Hours | 12 | 3 | 4 | 12 | 8 | 6 |
| Purpose/Objective | Provide exposure across the field of Environmental Science & Management | Provide discussion of topical environmental issues | Develop quantitative capability in research methods and data analysis | Develop a depth of knowledge in a selected area of environmental science or management | Develop breadth beyond the focus area | Application of course content to the solution of an environmental problem |
| Courses | Physical Environmental Systems (4) | | | | | Thesis (6) |
| | Ecological Systems (4) | | | | | |
| | Environmental Management (4) | | | | | |

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Core Requirement: Courses currently accepted for the core requirement

PHYSICAL SYSTEMS: ESR 525 Watershed Hydrology
 ESR 560 Air Quality
 ESR 571 Atmospheric Physics
 ESR 579 Fate and Transport of Toxics in the Environment

MANAGEMENT: ESR 529 Impact Assessment
 ESR 533 Natural Resource Economics
 ESR 534 Business Environmental Management Economics
 ESR 510 Environmental Sustainability

ECOLOGICAL SYSTEMS: ESR 526 Ecology of Streams & Rivers
 ESR 527 Watershed Biogeochemistry
 ESR 528 Urban Ecology
 ESR 575 Limnology and Aquatic Ecology

Advanced Statistical Analysis Requirement: Courses currently accepted for the Statistical Analysis requirement

ESR 566 Environmental Data Analysis
 ESR 567 Multivariate Analysis of Ecological Systems (550)