

## Integrated Analytic Methods and Skills Requirement Course List

Students are required, at some point during their time enrolled in the program, to take 2 courses composing at least 3 credits from a faculty-approved list of courses that focus on integrative analytic methods and skills. The faculty-approved existing courses that satisfy this requirement are listed below:

### Fall

- 447 – Forest Ecology Management
- 501 – Ecological Restoration Applications
- 501 – Multivariate Stats for Environmental Science (in 2020)
- 523 – Ecological Risk Assessment
- 530 - Decision-Making for Sustainability
- 531 – Principles of GIS
- 533 – Negotiation Skills
- 535 – Mediation Skills
- 552 – Ecosystem Services
- 553 – Diverse Farming Systems
- 564 – Localization Seminar
- 567 – Social Vulnerability & Adaptation to Environ Change
- 570 – Environmental Economics
- 572 – Environmental Impact Assessment
- 576 – Sustainability Finance
- 578 – Urban Stormwater (every other year)
- 597 – Environmental Systems Analysis
- 677 – Climate Adaptation Seminar
- 687 – Landscape Planning

### Winter

- 501 – Science and Management of the Great Lakes
- 501 – The Hydrologic Cycle and Water Res Mgmt
- 531 – Principles of GIS
- 532 – Natural Resource Conflict Management
- 541 – Remote Sensing
- 545 - Applied Ecosystem Modeling
- 549 – Analysis and Modeling of Ecological Data
- 550 – Systems Thinking for Sustainable Development
- 557 – Industrial Ecology
- 569 – Stakeholder Network Analysis
- 581 – Advanced Education for Environment and Sustainability
- 610 – Advanced LCA Methods and Software Tools
- 641 – Social Research Methods in Environment and Sustainability
- 787 – Metro Studio (MLA only)