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 courses listed below satisfy this requirement:

**Fall**

447 – Forest Ecology Management  
501 – Ecological Restoration Applications  
501 - Tools for Policy and Environmental Analysis  
501 – Multivariate Stats for Environmental Science  
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  
575 – Climate Economics and Policy  
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)