<table>
<thead>
<tr>
<th>Requirements</th>
<th>Notes</th>
<th>Course</th>
<th>Credits</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EI Core</strong></td>
<td>Environmental Informatics Core courses</td>
<td>EAS 541.001</td>
<td>3</td>
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<td></td>
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<td>EAS 531.001</td>
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<tr>
<td><strong>SEAS Core</strong></td>
<td>EAS 509 (Natural Systems Core)</td>
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<td>EAS 510 (Social Systems Core)</td>
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<td>IAMS Requirement</td>
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<td></td>
<td>Two courses; 3CR minimum</td>
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<td></td>
<td>Please see other side of form for approved courses.</td>
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<tr>
<td><strong>Electives</strong></td>
<td>Electives</td>
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<td></td>
<td>Must be a graduate level course at 400-level and above. At least 6</td>
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<tr>
<td></td>
<td>credits taken from the following course:</td>
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<tr>
<td></td>
<td>CMPLXSYS 530</td>
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<td></td>
<td>EAS 639.**</td>
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<tr>
<td></td>
<td>EAS 534</td>
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<td>EAS 540</td>
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<td>EAS 543</td>
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<td></td>
<td>EAS 545 Applied Eco Sys Mod</td>
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<td></td>
<td>EAS 549 Analysis &amp; Mod of Eco Data</td>
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<td></td>
<td>EAS 501.160</td>
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<tr>
<td><strong>Analytics</strong></td>
<td>Analytics</td>
<td>EAS 538</td>
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<tr>
<td><strong>Opus or Non-opus</strong></td>
<td>Opus</td>
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<td>Option 1: At most, 6 credit hours of EAS 700/ EAS 701.</td>
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<td>Non-opus</td>
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<td>Option 2: Additional approved courses to total 42 credits.</td>
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<tr>
<td><strong>TOTALS</strong></td>
<td>TOTAL “EAS” CREDIT HOURS</td>
<td>Minimum 25 of 42 credit hours</td>
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<tr>
<td></td>
<td>TOTAL CREDIT HOURS</td>
<td>Minimum 42 credit hours</td>
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</table>

*Any waiver or substitution of degree requirement must be approved by both the Graduate Advisor and EI Program Coordinator and submitted to OAP.

**To count toward EI Field of Study-specific elective requirement, EAS 639 seminar must be approved by the EI Field of Study Coordinator.
Course List

Environmental Informatics Core Courses

EAS 541.001   Remote Sensing    W (4)
EAS 531.001   Principles of GIS   F & W (4)

Elective Courses:

EAS 501.160    Advanced Digital Modeling W (2)
EAS 545       Applied Ecosystem Modeling W (2)
EAS 549        Analysis and Modeling of Eco Data W (3)
EAS 543        Environmental Spatial Data Analysis F (3)
EAS 534        GIS and Landscape Modeling F (3)
EAS 540        GIS and Natural Resource Applications F (2)
EAS 639.***    Seminars per approval from the EI Field of Study Coordinator
CMPLXSYS 530   Computer Modeling of Complex Systems

Integrated Analytic Methods and Skills Requirement

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
530 - Decision-Making for Sustainability
533 – Negotiation Skills
535 – Mediation Skills
552 – Ecosystem Services
553 – Diverse Farming Systems
567 – Social Vulnerability & Adaptation to Environ Change
572 – Environmental Impact Assessment
570 – Environmental Economics
578 – Urban Stormwater
597 - Environmental Systems Analysis
564 – Localization Seminar
677 – Climate Adaptation Seminar
687 – Landscape Planning

Winter

501 – Science and Management of the Great Lakes
545- Applied Ecosystem Modeling (Winter B)
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
589 – Ecological Restoration
610 – Advanced LCA Methods and Software Tools
641 – Interdisciplinary Research Methods
787 – Metro Studio (MLA only)