<table>
<thead>
<tr>
<th>Requirements</th>
<th>Notes</th>
<th>Course</th>
<th>Credits</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>EI Core</td>
<td>Environmental Informatics Core courses</td>
<td>EAS 541.001 Remote Sensing</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EAS 531.001 Principles of GIS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEAS Core</td>
<td>EAS 509 (Natural Systems Core)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EAS 510 (Social Systems Core)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IAMS Requirement Two courses; 3CR minimum Please see other side of form for approved courses.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>Electives</td>
<td>Must be a graduate level course at 400-level and above. At least 6 credits taken from the following course: EAS 501.034 EAS 501.001 (F19) EAS 534 EAS 540 EAS 543 EAS 545 EAS 549 EAS 639.006** Full list of non-SEAS elective courses on 2nd page</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analytics</td>
<td>Analytics</td>
<td>EAS 538</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opus or Non-opus</td>
<td>Opus Option 1: At most, 6 credit hours of EAS 700/ EAS 701.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Non-opus Option 2: Additional approved courses to total 42 credits.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTALS</td>
<td>TOTAL “EAS” CREDIT HOURS Minimum 25 of 42 credit hours</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TOTAL CREDIT HOURS Minimum 42 credit hours</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</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 501.001  “Intro to Rhinoceros 3D” (F19)
EAS 501.034  “Field Remote Sensing & Analysis, SP
EAS 543
EAS 545
EAS 549
EAS 639.006  “Python Programming”, W 1CR
CMPLXSYS 511  “Theory of Complex Systems”
CMPLXSYS 530  “Computer Modeling of Complex Systems”
CMPLXSYS 575  “Sensors, Data, and Intelligent Systems”
EECS 430  “Radiowave Propagation and Link Design”
EECS 532  “Radar Remote Sensing”

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
501 – Ecological Restoration Applications
523 – Ecological Risk Assessment
530 - Decision-Making for Sustainability
531 – Principles of GIS
533 – Negotiation Skills
536 – Mediation Skills
552 – Ecosystem Services
553 – Diverse Farming Systems
564 – Localization Seminar
567 – Social Vulnerability & Adaptation to Environ Change
572 – Environmental Impact Assessment
570 – Environmental Economics
576 – Sustainability Finance
578 – Urban Stormwater
597 – Environmental Systems Analysis
677 – Climate Adaptation Seminar
687 – Landscape Planning

Winter

501 – Science and Management of the Great Lakes
541 – Remote Sensing
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)