

**TWO-YEAR MS PLAN**

	<b>Requirement*</b>	<b>Notes</b>	<b>Course #</b>	<b>Credits</b>	<b>Term</b>
<b>TE Core</b>	NRE 436 (4) <i>[Plan-specific requirement]</i>	Field of study required course			
<b>NRE Core</b>	NRE 509 (Natural Science Core) NRE 510 (Social Science Core) NRE 580 (Environmental Integrated Assessment) <i>[School-wide requirement]</i>	Total of 10 credits hours			
<b>TE Electives</b>	Electives	Plan specific. With thesis option- 10-11 credits from Biology & Ecology and Ecological Management & Policy. With out thesis option – 16-17 credits from Biology & Ecology and Ecological Management & Policy.			
<b>Analytics</b>	Analytics <i>[Plan-Wide Requirement]</i>	NRE 538 (4 credits) and one course from the approved TE Analytics course list			
<b>Opus</b>	Opus <i>[School-wide requirement]</i>	Option 1: At most, 6 credit hours of NRE 700/ NRE 701			
		Option 2: See advisor for non-opus guidance			
<b>Cognates</b>	Minimum 4 credit hours outside of SNRE <i>[Rackham requirement]</i>	Can be double counted with other degree requirements.			
<b>TOTALS</b>	<b>TOTAL CREDIT HOURS**</b>	<b>Minimum 42 credit hours</b>			
	<b>TOTAL SNRE CREDIT HOURS</b>	<b>Minimum 25 of 42 credit hours</b>			

\*Any waiver or substitution of degree requirement must be approved by the appropriate faculty advisor and submitted to OAP.

## **Terrestrial Ecosystems – Plan Specific Courses**

### **Field of Study required course**

NRE 436 Woody Plants

*Thesis option – 10 to 11 credits from Biology & Ecology and Ecological Management & Policy*

*Non-thesis option – 16-17 credits from Biology & Ecology and Ecological Management & Policy*

### **Analytical Courses:**

NRE 538 Natural Resources Statistics

NRE 525 Ecological Inference

NRE/Environ 441 Remote Sensing of the Environment

NRE 531 Principles of GIS

NRE 540 GIS for Natural Resource Applications

NRE 543 Environmental Spatial Data Analysis

NRE 639.114 Advanced Ecosystem Modeling

NRE 501.114 Ecosystem Modeling and Synthesis

### **Biology & Ecology**

NRE 501 Forest Ecology

NRE/Environ 430/EEB 489 Soil Ecology

NRE/EEB 476 Plant Physiological Ecology

EEB 463 Neotropical Plants

NRE 528 Advanced Forest Ecology

NRE/Environ 418 Biology and Management of Insects

NRE/Environ 415 Behavioral Ecology and Conservation Biology

NRE/Environ 416 Field Skills in Wildlife Behavior (taken concurrently with 415)

NRE 508 Wetland Ecology

NRE 517 Conservation Biology

NRE 455 Lab Field Ecology

NRE 589 Ecological Restoration

EEB 405 Forest Ecology and Biogeochemistry

EEB 442 Biology of Insects

EEB 474 Ecology of Wetlands

EEB 556 Field Botany of Northern Michigan

### **Ecological Management & Policy**

NRE 501 Vegetation Management (4)

NRE 501 Ecosystem Management (3)

NRE 418 Biology & Management of Insects (3)

NRE 419 Agricultural and Forest Pest Management (3)

NRE 589 Ecological Restoration (3)

NRE 532 Conflict Management (3)

NRE 562 Natural Resource Policy (3)

NRE 570 Microeconomics with Natural Resources Application (3)

NRE 571 Environmental Economics (3)