

TWO-YEAR MS PLAN

	Requirement*	Notes	Course #	Credits	Term
AS Core	3 Aquatic Science specialization courses <i>[Plan-specific requirement]</i>	9-12 credit hours			
NRE Core	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			
Electives	Electives	Plan specific; must be a graduate level course at 400-level and above			
Analytics	Analytics <i>[School-Wide Requirement]</i>	NRE 538 or equivalent and another graduate level analytical course.			
Opus	Opus <i>[School-wide requirement]</i>	Option 1: At most 6 credit hours of NRE 700/ NRE 701 Option 2: 6-8 credits of AS approved courses. See advisor for non-opus guidance.			
Cognates	Minimum 4 credit hours outside of SNRE <i>[Rackham requirement]</i>	Can be double counted with other degree requirements.			
TOTALS	TOTAL CREDIT HOURS**	Minimum 42 credit hours			
	TOTAL SNRE CREDIT HOURS	Minimum 25 of 42 credit hours			

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

Current Courses

NRE 409/ENVIRON 409/EEB 487 Ecology of Fishes
NRE 422/ENVIRON 422/EEB 440 Biology of Fishes
NRE 423/ENVIRON 423/EEB 441 Biology of Fishes Lab
NRE 432/ENVIRON 432 Forest Hydrology and Watershed Management
NRE 476/ENVIRON 476/EEB 476 Ecosystem Ecology
NRE 508 Wetland Ecology
NRE 511 Intro to Aquatic Sciences
NRE 516 Aquatic Entomology
NRE 520 Fluvial Ecosystems
NRE 521 Fluvial Ecosystems Lab
NRE 558 Water Resource Policy
NRE 585 Water Resource Economics
NRE 639 Graduate Seminars (e.g. Watershed Planning, Modeling River Environments, others as announced)
EEB 457 Algae in Freshwater Systems (UMBS)
EEB 474 Wetlands (UMBS)
EEB 483 Limnology: Freshwater Ecology
EEB 484 Limnology Laboratory
EEB 486 Biology and Ecology of Fishes (UMBS)
EEB 585 Ecology of Streams and Rivers (UMBS)
GeoSci 417 Geology of the Great Lakes
GeoSci 449 Marine Geology
GeoSci 477 Hydrogeology
GeoSci 479 Marine Geochemistry
EHS 570 Water Quality Management
EHS 571 Water Quality Management Practices
CEE 520 Deterministic and Stochastic Models in Hydrology
CEE 521 Flow in Open Channels
CEE 522 Sediment Transport
CEE 527 Coastal Hydraulics
AOSS 401 Geophysical Fluid Dynamics