

NATURAL RESOURCES AND ENVIRONMENT

M UNIVERSITY OF MICHIGAN

Sustainable Water Resources

Summary of Requirements for a Master of
Science and a Master of Science in Env.

Engineering
Effective Fall 2008

Two Year M.S/M.S.E Program

	Requirement	Notes	Course #	Credits	Term
AS Core	9-12 credits in Aquatic Sciences Specialization Courses are listed on the back of this worksheet. <i>[Plan-specific requirement]</i>	One course each from Organismal Biology, Ecosystem Ecology, And Ecosystem Modeling			
Environ Engineering Core	Students must take these course or equivalent upper-level technical courses as an UG	CEE 460 CEE 581 CEE 582 CEE 428 or CEE 526 CEE 587 or NRE 562 or NRE 571			
	The following courses are required	CEE 520 CEE 521 CEE 522			
NRE Core	NRE 509 NRE 510 NRE 580 <i>[School-wide requirement]</i>				
Analytics	2 Analytics courses <i>[School-wide requirement]</i>	NRE 538 or approved alternate and one additional analytics course			
Opus	Students are not expected to complete an Opus, but could petition to do a thesis/practicum or project	At most, 6 credits of NRE 700/701			
Cognates	<i>[Rackham requirement]</i>	Please see reverse for cognate requirement information			
	Total credit hours by school	SNRE -Minimum 25 credit hours CEE – Minimum 15 credit hours			
TOTALS	TOTAL CREDIT HOURS	Minimum 54 credit hours (this total includes NRE & CEE credits)			

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

Last Revised April 29, 2008

Current courses in Aquatic Sciences

One course from - Organismal Biology

- NRE 409 Ecology of Fishes
- NRE 422 Biology of Fishes
- EEB 457 Algae in Freshwater Systems
- NRE 516 Aquatic Entomology

One course from - Ecosystem Ecology

- NRE 476 Ecosystem Ecology
- EEB 483 Limnology
- NRE 520 Fluvial Ecosystems

One course from - Ecosystem Modeling

- NRE 501.114 Ecosystem Modeling and Synthesis
- NRE 534 GIS and Landscape Modeling
- EEB 401 Interrogating Data with Models

Cognate

SNRE – Minimum 4 credits outside SNRE. Can be fulfilled with CEE coursework.

CEE – 6 credits of Non-CEE coursework. Can be fulfilled with one advanced Mathematics course (proper choice of SNRE analytical courses can also satisfy this requirement) and one SNRE course