

Course Planning Worksheet for the Professional Option of the MSEE degree in the Department of Environmental Sciences and Engineering

for students matriculating in Fall 2023 (1-year degree)

Student Name:		Cohort:
Biology prerequisite met:		Statistics prerequisite met:

Course #	Course name	Credits Taken	Planned Semester	Notes, substitutions, exemptions.*
Required Core Cou	rses			
SPHG 600	Introduction to Public Health (3 cr)		Fall OR Spring	
ENVR 601 OR EPID 600	Epidemiology for Environmental Scientists (3 cr) Principles of Epidemiology for Public Health (3 cr)		Spring (Year 1)	
Department Semi				
ENVR 400	Seminar Series - attend 15 sessions and associated work – see syllabus for details (0.5 cr each semester until complete)		Fall & Spring	
Requirement comp	pletion verified:		Date:	
Approved Enginee	ring Electives (total ≥12 cr at 400 level or higher, see table below)			
	n undergraduate or graduate course in statistics and one in biological sciences mus g., in another institution. They can count toward graduation credits if they are			have not been
Total Credits of Fo	rmal Coursework Taken:			
			Date:	
Course work appro			Date:	
Course work appro	ved:		Date: Spring (Year 1)	
Course work appromate Master's Technica ENVR 992.003	Ned: I Report *Register for ENVR 992 section 003 Masters Technical Report in Global Environmental Crisis Management –		Spring	

^{*}Course Exemptions do <u>**not**</u> count towards total credit hours needed for degree.

IMPORTANT: Students should contact <u>ESEStudentServices@unc.edu</u> to all obtain all needed <u>Graduate School forms</u> and to ensure they have the correct forms for each stage of defense/exam. Paperwork is typically signed electronically and completed paperwork is submitted by the Academic Coordinator via email to The Graduate School.

Milestones and Typical Timeline

for the **Professional Option** of the **MSEE degree** in the Department of Environmental Sciences and Engineering matriculating in Fall 2023

Timeline will put students on track for a May graduation date.

Milestones	Semesters in	
	Program	
Admission	0	
Confirm Faculty Mentor (Name):		
Meet with your faculty mentor on a regular schedule. Typically, every 2 weeks, but at least every 4 weeks. Bring	0	
<u>Faculty Mentor meeting form.</u>		
Out-of-state students start working to meet NC Residency Requirements (not applicable for international students)	0	
NC Residency requirement met (not applicable for international students)	Out-of-state students	
	are encouraged	
	to apply after	
	365 days in NC	
Meet with ESE Academic Coordinator (students encouraged to meet with AC once a semester before registration)	1-2	
Develop course work plan (see page 1) with Faculty Mentor	0 - 1	
Faculty Mentor signs/approves course work plan (see page 1 - return this form to ESE Student Services)	1 - 2	
Bring transcripts and course planning worksheet to meeting. Bring the ESE Committee Meeting form.		
Submit signed course planning worksheet to ESE Student Services after meeting.		
Complete course work	2	
Complete ENVR 992.003 and associated Oral Comprehensive exam and Technical Report		
Bring Graduate School forms to exam for signatures.		
 Master's Comprehensive Exam or Approved Substitute Report Form (PART III) 		
Report of Approved Substitute for a Master's Thesis Form	2	
For information about where to sign the required Graduate School forms, see here.		
Submit Technical Report to the Carolina Digital Repository (see handbook)		
See here for Graduation School thesis submission deadlines by semester		
Apply for graduation; Order Regalia, Check milestones in ConnectCarolina; complete Exam paperwork,	4	
Graduate School Exit Survey.		

			MSEE Course Options			
Course	Course #	Credits	Course Title	Area of Interest	Instructor	Semester
			Required MSEE Courses (see Course Planning Sheet for more more details)			
ENVR	601	3	Epidemiology For Environmental Scientists	Water/Air	Brown/Yeatts	Spring
	OR					
EPID	600	3	Principles of Epidemiology for Public Health	Water/Air	TBD	Spring
SPHG	600	3	Introduction to Public Health	Water/Air	TBD	Fall
ENVR	989	3	Environmental Crisis Management *Research Track ONLY	Water/Air	Vizuete	Spring
ENVR	992	3	Master's Technical Report *Research & Professional Track	Water/Air	TBD	Fall/Spring
ENVR	400	0.5	Departmental Seminar	Water/Air	Fry	Fall/Spring
			Approved Engineering Electives (total needed: 12 cr at 400 level or higher)			
ENVR	416	4	Aerosol Physics and Chemistry	Air	Surratt	Fall
ENVR	675	3	Air Pollution, Chemistry, and Physics	Air	West	Fall
ENVR	453	3	Groundwater Hydrology	Water	Weigand	Fall
ENVR	525	3	Water, Sanitation, Hygiene, and Global Health	Water	Fisher	Fall
ENVR	582	3	Sanitation for Development	Water	Manga	Fall
ENVR	755	3	Analysis of Water Resource Systems	Water	Characklis	Fall
ENVR	756	3	Physical/Chemical Treatment Processes	Water	Coronell	Spring
ENVR	451	3	Introduction to Environmental Modeling	Water/Air	Vizuete	Fall
ENVR	468	3	Temporal GIS and Space/Time Geostatistics for the Environment and Public Health	Water/Air	Serre	Fall
ENVR	500	3	Environmental Processes, Exposure and Risk Assessment	Water/Air	Rager	Spring
						Fall
ENVR	666	3	Numerical Methods	Water/Air	Miller	(on
						Fall
ENVR	671	3	Environmental Physics 1	Water/Air	Miller	(on
						Spring
ENVR	672	3	Environmental Physics 2	Water/Air	Miller	(on
						Spring
ENVR	759	3	Multiphase Transport Phenomena	Water/Air	Miller	(on
						Spring
ENVR	760	3	Uncertainty Quantification for Environmental Systems	Water/Air	Miller	(on
ENVR	765	3	Space Time Exposure Mapping and Risk Assessment	Water/Air	Serre	Spring
	Gen	etal ENV	R courses of potential interest to MSEE students (Note: these courses cannot replace engine	eering courses)		
ENVR	775	1	Global Climate Change: Interdiscplinary perspectives	Air	West	Spring
ENVR	419	3	Chemical Equilibria in Natural Waters	Water	Coronell	Fall
ENVR	685	3	Water and Sanitation Policy in Lesser Developed Countries	Water	Whittington	Spring
ENVR	785	3	Public Investment Theory	Water	Whittington	Spring
ENVR	788	3	Managing Environmental Financial Risk	Water	Characklis	Spring
ENVR	548	3	Sustainable Energy Systems	Water/Air	Kittner	Fall
ENVR	403	3	Environmental Chemistry Processes	Water/Air	Surratt	Spring
					Nylander-	
ENVR	411	3	Laboratory Techniques and Field Measurements	Water/Air	French/Stale	TBA
ENVR	580	3	Policy Design for Environmental Health Solutions	Water/Air	Whittington	Spring
ENVR	635	3	Energy Modeling for Environment and Public Health	Water/Air	Kittner	Spring

^{**}NOTE: The "General" list is a *partial list* of courses we offer that might be of interest. See our <u>ESE Courses page</u> to find a list of what we are offering the current semester.

^{**}If students need to change their Faculty Mentor, please contact ESE Student Services at: esestudentservices@unc.edu. Please also see our Addressing Students Concerns guide for students-here.