



Course Planning Worksheet for the **Professional Option of the MSEE**
 degree in the **Department of Environmental Sciences and Engineering**
 for students matriculating in Fall 2024
(1-year degree)

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

Course #	Course name	Credits Taken	Planned Semester	Notes, substitutions, exemptions.*
Required Core Courses				
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 Seminar				
ENVR 400	Take 1 credit your first semester.		Fall 24	
Requirement completion verified:			Date:	
Approved Engineering Electives (total ≥12 cr at 400 level or higher, see table below)				
Other electives (an undergraduate or graduate course in statistics and one in biological sciences must be taken if such courses have not been taken in the past e.g., in another institution. They can count toward graduation credits if they are 400 level or above.				
Total Credits of Formal Coursework Taken:				
Course work approved:			Date:	
Master's Technical Report *Register for ENVR 992 section 003				
ENVR 992.003	Masters Technical Report – including comprehensive oral exam (3 cr)		Spring (Year 1)	
Total credits required for graduation ≥ 31 cr at 400 level or above, excluding ENVR 400 (24 credits of formal coursework, 15 cr must be ENVR courses, not including ENVR 400, 991, 992)				
Date verified:				

*Course Exemptions do not count towards total credit hours needed for degree.

IMPORTANT: Students should contact ESEStudentServices@unc.edu to all obtain all needed [Graduate School forms](#) 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 2024

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. <i>Bring Faculty Mentor meeting form.</i>	0
Out-of-state students start working to meet NC Residency Requirements (not applicable for international students)	0
NC Residency requirement met (<i>not applicable for international students</i>)	Out-of-state students are encouraged to apply after 365 days in NC
Meet with ESE Academic Coordinator (<i>students encouraged to meet with AC once a semester before registration</i>)	1-2
Develop course work plan (<i>see page 1</i>) with Faculty Mentor	0 - 1
Faculty Mentor signs/ approves course work plan (<i>see page 1 - return this form to ESE Student Services</i>) 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.	1 - 2
Complete course work	2
Check Residence Credit Milestone is on track to be completed, if not already completed.	2
Complete ENVR 992.003 and associated Oral Comprehensive Examination (Final Oral Exam) and Technical Report (master's thesis substitute) Bring Graduate School forms to exam for signatures. <ul style="list-style-type: none"> • <i>Master's Comprehensive Exam or Approved Substitute Report Form (PART III)</i> • Report of Approved Substitute for a Master's Thesis Form For information about where to sign the required Graduate School forms, see here . Submit Technical Report to the Carolina Digital Repository (<i>see handbook</i>) See here for Graduation School thesis submission deadlines by semester	2
Apply for graduation; Order Regalia, Check milestones in ConnectCarolina; complete Exam paperwork; complete The Graduate School Exit Survey.	4

		MSEE Course Options					
Course	Course #	Credits	Course Title	Area of Interest	Instructor	Semester	
Required MSEE Courses (see Course Planning Sheet for more details)							
ENVR	601	3	Epidemiology For Environmental Scientists	Water/Air	Brown/Yeatts	Spring	
	<i>OR</i>						
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 <i>*Research Track ONLY</i>	Water/Air	Vizuete	Spring	
ENVR	992	3	Master's Technical Report <i>*Research & Professional Track</i>	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	
ENVR	666	3	Numerical Methods	Water/Air	Miller	Fall (on	
ENVR	671	3	Environmental Physics 1	Water/Air	Miller	Fall (on	
ENVR	672	3	Environmental Physics 2	Water/Air	Miller	Spring (on	
ENVR	759	3	Multiphase Transport Phenomena	Water/Air	Miller	Spring (on	
ENVR	760	3	Uncertainty Quantification for Environmental Systems	Water/Air	Miller	Spring (on	
ENVR	765	3	Space Time Exposure Mapping and Risk Assessment	Water/Air	Serre	Spring	
General ENVR courses of potential interest to MSEE students (Note: these courses cannot replace engineering courses)							
ENVR	775	1	Global Climate Change: Interdisciplinary 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	
ENVR	411	3	Laboratory Techniques and Field Measurements	Water/Air	Nylander-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 [ESE Courses page](#) 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](#).**