



Department of Environmental Sciences and Engineering

Master's Student Handbook

“The University of North Carolina at Chapel Hill is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award baccalaureate, masters, education specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-479-4500 for questions about the accreditation of the University of North Carolina at Chapel Hill.”

The Gillings School is fully accredited by the Council on Education for Public Health (CEPH). CEPH is an independent agency, recognized by the US Department of Education to accredit schools and programs of public health.

2022-2023 AY

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I. Overview

Chair's Statement (from Barbara J. Turpin, Ph.D.)

Increasingly, the faculty and students of the Department of Environmental Sciences and Engineering (ESE) are responding to, planning for, and working to mitigate new and evolving public health threats – that oftentimes have a disproportionate impact on marginalized communities. Some of these threats include viruses transported by airborne particles, hazardous agents in contaminated floodwaters, antibiotic resistance, air pollution exposures from drought-enabled wildfires, changes in water availability in low-income countries, extreme weather-impacts on the financial health of local water districts and exposures to legacy and emerging contaminants.

This work is uniquely possible at a place like Gillings, where engineering, science and public health are found together, and where health equity is a part of our mission. Addressing surprising new challenges requires a depth of knowledge, but also a willingness to teach and learn from others, to broaden your perspective, to be creative and to work collaboratively across disciplinary boundaries. You will make the most of your education when you seek out and embrace opportunities to do this.

We will need integrated and holistic solutions. If anything, the past decade has shown that stove-piped responses will not deliver the long-term, sustainable results we need. Engineering solutions to household water service provision, for example, must be done within the broader context of a one-health approach to providing a disease-free living environment if we are to meaningfully reduce water-related diseases. As environmental scientists and engineers located within the top *public* school of public health, ESE is ideally positioned to provide holistic, intersectoral responses to mitigate and prepare for the pressing environmental challenges (e.g., by characterizing susceptible populations, characterizing and prioritizing health risks, examining energy policy options with co-benefits for health, engaging communities to improve resilience, and designing next-generation technologies). Thus, while we celebrate a century of environmental solutions to public health problems, we affirm our commitment to build public health resilience to climate and environmental change.

ESE's history of leadership. Our work today builds on ESE's long tradition of local and global impact. We are the nation's first engineering department in a school of public health. We enrolled our first Sanitary Engineering master's student, Roy Jay Morton, under Thorndike Saville in the fall of 1920, when there was a pronounced need to improve water safety in the towns and cities of North Carolina and also stark inequities in water, sanitation and health between white and black neighborhoods. Our public health achievements were notable, and also severely hampered by systemic racism. ESE was a founding department of UNC's School of Public Health (1940) under Herman Baity. The student body and curriculum began a substantial evolution in the 1960s. We began admitting women (e.g., Linda Little) and African American students (e.g., Bill Small, Otto White) and international aid organizations began sending students from several continents to be educated by the department. A 1971 survey estimated that 25% of graduates were addressing

water and sanitation challenges in international health organizations and foreign governments, including African and Latin American countries. Three of the first four Directors of Environmental Health at the World Health Organization were our alumni. Under the leadership of Dan Okun (1955-1973) and continuing under Russell Christman (1973-1989), ESE became a truly interdisciplinary department, providing a quantitative education in environmental sciences and engineering, with substantial faculty expertise spanning sciences, engineering, management and policy domains in air, water and industrial hygiene. The department's current name was adopted in 1962 and William Glaze (1989-1997) added faculty in the health sciences.

Building the next generation of leaders. Today, ESE has over 2000 practicing alumni. Our graduates take with them an integrated, interdisciplinary, quantitative, mechanistic education that links health risks back to sources. They are engaged in efforts to improve environmental quality locally and globally, including through technological innovation, effective environmental policies, research and community engagement. We have an internationally recognized faculty in air pollution, environmental health sciences, climate change and health, global water policy, infectious disease and microbiology, environmental chemistry, transport, energy and engineering. We are home to [UNC's Water Institute](#), [Center on Financial Risk in Environmental Systems](#), the [Institute for Environmental Health Solutions](#), and participate in UNC's strong university-wide environmental and climate change communities. Since its founding, the Gillings School of Global Public Health has been a consistent advocate for health equity locally and globally.

Help us build a more healthy, equitable and sustainable future.

Departmental Overview

The Department of Environmental Sciences and Engineering (ESE) focuses on the interface between people and the environment. Interdisciplinary programs in air quality and atmospheric processes, human exposure and health effects, and sustainable water resources draw from faculty expertise in the physical and life sciences, engineering and policy. We work to:

- Understand the environmental transport and transformation of chemicals and infectious agents;
- Protect vulnerable populations from toxic exposures;
- Mitigate the impacts of climate change on air, water and health; and
- Create a healthy, sustainable and equitable future.

This document is intended to provide a quick reference for students in our department.

Key Personnel

Name and Title	Room	Contact
Barbara J. Turpin <i>Professor and Chair</i>	Rosenau 166A	ESEChair@unc.edu bjturpin@email.unc.edu
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Courtney Woods, <i>Assistant Professor and MPH Concentration Lead for Environmental Health Solutions</i>	Rosenau 146	cgwoods@email.unc.edu
Amanda Northcross <i>Associate Professor and Director of Undergraduate Studies</i>	Rosenau 160	amandaln@email.unc.edu
Jennifer Joyce Moore <i>Academic Coordinator</i>	Rosenau 162B	ESEStudentServices@unc.edu jenjoyce@email.unc.edu
Kira S. Jones <i>Academic Program Services Coordinator</i>	Rosenau 161	ESEStudentServices@unc.edu Kirajones@unc.edu

ESE Student Services is the first point of contact for any questions or concerns. A complete listing of [faculty and staff](#) is available online.

II. Degree Descriptions

The Gillings School maintains the [Gillings Program Search](#), which outlines degree requirements, demographics, admissions information, and more. It does not supersede information in the [Graduate School Handbook](#), the [UNC Catalog](#), or departmental guidelines. Prospective and current students are encouraged to contact ESE Students Services directly if they have any questions.

Graduate Degrees

Note: At UNC-Chapel Hill, the [Graduate School](#) administers graduate degrees and is the official School for graduate students. Its regulations, as set out in the [Graduate School handbook](#), are the final authority on academic matters.

All graduate degrees offered by ESE involve a culminating experience – a thesis (MS), technical report (MSEE, MPH and MSPH), or dissertation (PhD). The culminating experiences provide students an opportunity to synthesize, integrate and apply knowledge and skills learned in coursework and other learning experiences and require students to demonstrate attainment of program competencies.

Upon admission, students are assigned a faculty mentor from the ESE faculty. The ESE Academic Coordinator assists the student in navigating the graduate school and departmental rules and expectations. The faculty mentor guides them in choosing an appropriate program of coursework and in forming a research committee, when appropriate. Usually, the faculty mentor will serve as the student's research advisor as well, though a research advisor from other faculty (including adjunct faculty, or faculty in other departments) may be assigned. In this case, research advisor and mentor will serve on the student's examination committee.

Master of Science (MS) Degree

The MS degree is intended for incoming students with a strong background in the sciences or engineering and prepares them for advanced education or careers in research, practice or management in the field of environmental sciences and engineering.

Competencies developed by ESE faculty define what students should know and be able to do upon completion of the MS program. Competencies guide our curriculum planning process and serve as a measure against which student achievement is assessed. Following are the degree-specific competencies for the MS in Environmental Sciences and Engineering:

1. Demonstrate a depth of knowledge in one area within environmental sciences and engineering.
2. Explain the results of original research.
3. Review and synthesize a body of research literature.
4. Demonstrate broad exposure to contemporary issues in environmental sciences, environmental health and environmental engineering.

5. Demonstrate proficiency in a research skill. Success in meeting these competencies is measured by the successful completion of all degree requirements, including course work, and a comprehensive oral examination, at which time the thesis is presented and defended. Additionally, students may prepare technical reports, present their work at seminars and at national or international meetings, and publish in peer-reviewed literature.

We offer a variety of primary and specialized courses intended to allow students to meet degree-specific competencies.

Degree Requirements

The requirements for the MS degree are governed by the Graduate School and include:

- **A minimum of 30 semester hours** of credit, which can include [transferred credit](#)
- Formation of a **three-member committee** to guide the student's study and research
- **ENVR 601**: Epidemiology for Environmental Scientists
- **SPHG 600**: Introduction to Public Health
- **ENVR 400**: Departmental Seminar. Register for 0.5 credits during the first semester and every semester until *all [requirements of ENVR 400](#) are completed* (15+ sessions must be attended and assignments completed)
 - More information can be found here: weinberg.sph.unc.edu/400/
- **9 credits of ENVR courses** approved by advisor for depth in one area of ESE
- Course or hands-on training to learn and demonstrate **proficiency in one research skill**, approved by advisor.
- **A minimum of 24 hours of formal graduate-level course work**, which includes at least 15 credit hours of ENVR courses at the 400 level or above (to be determined by the student and advisor) and excludes ENVR 400, 991, 993
- **ENVR 991**: Research in Environmental Sciences and Engineering
- **A minimum of three hours of ENVR 993** (Master's Research and Thesis), which is credit earned for the preparation and defense of a thesis
- **A comprehensive oral examination.**

This is the [MS Course Planning Worksheet](#)

Master of Science in Public Health (MSPH) Degree

The MSPH is intended for incoming students with a strong background in the sciences or engineering. The MSPH prepares students for careers in practice, as well as for further studies and careers in advanced education, research or management in the field of public health with an emphasis on environmental health, sciences or engineering. While it is accredited by the Council on Education for Public Health (CEPH) as a professional public health degree, it is focused on both public health practice and coursework, and scientific research at the interface between public health and the environment.

Competencies developed by ESE faculty define what students should know and be able to do upon completion of the MSPH program. Competencies guide our curriculum planning process and serve as a measure against which student achievement is assessed. Following are the degree-specific competencies for the MSPH in Environmental Sciences and Engineering:

1. Gain experience in practice in the fields of environmental sciences, engineering or health.
2. Explain and analyze the mechanisms of environmental contaminants leading to adverse effects on human organ systems.
3. Engage with interdisciplinary contemporary research across the fields of environmental health and sciences.
4. Identify and evaluate the relationships between environmental processes, exposure and/or risk assessment.
5. Develop skills and knowledge needed to conduct research within one area of environmental sciences and engineering.

Students in the MSPH also develop core public health competencies that are fully described in the [Gillings Schoolwide Handbook](#).

Success in achieving degree-specific and core public health competencies is measured by the successful completion of all degree requirements, including core courses in the School of Public Health; departmental course work; a practicum in the field; and a comprehensive oral examination, at which time a technical report is presented and defended. Students may also prepare other technical reports; present their work at seminars and at national or international meetings; and publish in the peer-reviewed literature.

We offer a variety of primary and specialized courses intended to allow students to meet degree-specific competencies, while the departmental and School-wide public health core courses are intended to help students achieve core and cross-cutting public health competencies.

Degree Requirements

The requirements for the MSPH are governed by the Graduate School, the School of Public Health, and the Department. These requirements include:

- Public Health core courses (**SPHG 711, SPHG 712, SPHG 713, SPHG 721, SPHG 722**)
- Formation of a **three-member committee** to guide the student's study and research
- **A minimum of 42 semester hours** of credit, which can include [transferred credit](#)
- **A minimum of 24 hours** of formal graduate-level coursework, which includes at least 15 credit hours of ENVR coursework 400 level or above, to be determined by the student and advisor (excludes ENVR 400, 991, 992)
- **ENVR 400:** Departmental Seminar. Register for 0.5 credit during the first semester and every semester until *all requirements of ENVR 400 are completed* (15+ sessions must be attended and assignments completed)
 - More information can be found here: weinberg.sph.unc.edu/400/

- **ENVR 430** (Health Effects of Environmental Agents) or **ENVR 630** (Systems Biology in Environmental Health)
- **ENVR 500** (Environmental Processes Exposure or Risk Assessment) or **ENVR 765** (Space Time Exposure Mapping and Risk Assessment)
- **6 credits of ENVR courses** approved by advisor to develop skills and knowledge for research
- Completion of **at least 1 credit of ENVR 981** (Environmental Sciences Practicum) (see below)
- **A minimum of three hours of ENVR 991** (Research in Environmental Sciences and Engineering)
- **A minimum of three hours of ENVR 992** (Master's Technical Report), earned for the preparation and defense of a technical report
- **A comprehensive oral examination** that includes a defense of the technical report

This is the [MSPH Course Planning Worksheet](#)

Master of Public Health (MPH) Degree with a Concentration in Environmental Health Solutions

The Gillings MPH degree is a terminal degree recognized as the standard professional degree in public health. It prepares graduates for careers in practice or management in the field of public health. Each student completes the MPH requirements and the requirements of at least one concentration (e.g., Environmental Health Solutions, Global Health, Health Equity, etc.).

The MPH is accredited by the Council on Education for Public Health (CEPH) as a public health degree.

More information about the MPH in general and other MPH concentrations is provided in the [Gillings MPH Handbook](#). Herein, we only provide information about requirements for the Gillings MPH with a Concentration in Environmental Health Solutions.

Competencies developed by ESE faculty define what students completing a concentration in Environmental Health Solutions should know and be able to do beyond the MPH core competencies. Competencies guide our curriculum planning process and serve as a measure against which student achievement is assessed. Following are the concentration-specific competencies for Environmental Health Solutions:

1. Weigh the scientific basis of hazard identification, exposure and health risk assessment to support environmental management and policy.
2. Identify and evaluate the relationships between sources of environmental contaminants and processes that affect the movement, transformations, exposure pathways and health effects of contaminants in environmental systems.
3. Describe and critically evaluate the rationale for and approaches used to measure and model properties of environmental/ human systems.
4. Evaluate effective actions or interventions that improve environmental health outcomes, and be able to compare and assess programs, policies, engineering solutions

and/or other approaches to achieve these outcomes.

5. Examine and critique ethical and legal dimensions of public health and environmental interventions on individuals and communities.

Success in achieving concentration-specific and core public health competencies is measured by the successful completion of all degree requirements, including MPH core courses in the School of Public Health; required concentration course work; a written comprehensive exam, a 200-hour practicum in a public health setting; and a culminating experience leading to a high-quality written product (technical report).

We offer a variety of primary and specialized courses intended to allow students to meet degree-specific competencies while the departmental and School-wide public health core courses are intended to help students achieve core and cross-cutting public health competencies.

Degree Requirements

The requirements for the Gillings MPH are governed by Graduate School requirements, and School of Public Health requirements. Details for the [Gillings MPH](#) can be found on the Gillings website.

Requirements for students pursuing the Concentration in [Environmental Health Solutions](#) can be found here.

Master of Science in Environmental Engineering (MSEE) Degree

The MSEE degree is a terminal degree intended for students interested in careers in environmental engineering practice. It is open only to those who possess an ABET-accredited (or equivalent) engineering degree.

Competencies developed by ESE faculty define what students should know and be able to do upon completion of the MSEE program. Competencies guide our curriculum planning process and serve as a measure against which student achievement is assessed. Following are the degree-specific competencies for the MSEE in Environmental Sciences and Engineering:

1. Define problems, needs, and objectives for which environmental engineering is relevant
2. Evaluate problems quantitatively using measurements or models (statistical, empirical, and/or mechanistic) of engineered systems or impacted natural environments.
3. Develop and design appropriate solutions which use technologies, facilities, monitoring, controls, or policies to solve environmental engineering problems.
4. Evaluate the success of environmental engineering designs and assess the uncertainty involved in environmental systems.
5. Obtain a broad exposure to contemporary issues in environmental sciences, environmental health, and environmental engineering.

Success in achieving these learning objectives is measured by the successful completion of all degree requirements, including formal course work and a comprehensive oral examination, at which time the master's technical report is presented and defended.

Students may elect to take a professional track degree with an anticipated completion in one year. For professional track students, their master's technical report is an extension of work performed in the capstone (**ENVR 992.03**: Global Environmental Crisis Management with master's technical report).

Students may instead choose to pursue a research track under the guidance of a research advisor. Students on a research track will present and defend their research and document their research in their master's technical report. They will register for the section of ENVR 992 associated with their research advisor. Students on the research track are anticipated to complete the MSEE degree in two years. Students may also prepare other reports; present their work at seminars and at national or international meetings; and publish in the peer-reviewed literature.

Please refer to the [MSEE website](#) for the latest listings of approved engineering courses.

Degree Requirements (Professional Track MSEE)

The following requirements must be met for the **Professional Track MSEE**:

- Students and their advisors should develop a written coursework plan during the first semester of study.
- Students must complete at least 12 hours of engineering coursework (<https://sph.unc.edu/envr/msee-program/>) offered in the Department of Environmental Sciences and Engineering or graduate-level engineering courses from another institution. Courses taken at another institution must be approved by the student's advisor and must not have counted toward an undergraduate degree elsewhere, if they are to count towards this requirement.
- Students who have not already had an undergraduate or graduate course in probability and statistics and an undergraduate or graduate course in the biological sciences must take an appropriate course on each topic while in the MSEE program. The acceptability of courses to fulfil these requirements should be decided after consultation with the student's advisor.
- **SPHG 600**: Introduction to Public Health
- **ENVR 400**: Departmental Seminar. Register for 0.5 credit during the first semester and every semester until *all requirements of ENVR 400 are completed* (15+ sessions must be attended and assignments completed)
 - More information can be found here: weinberg.sph.unc.edu/400/;
- **ENVR 601**: Epidemiology for Environmental Scientists or **EPID 600**: Methods and Measures for Public Health Practice.
- **ENVR 992.03**: Global Environmental Crisis Management with Master's Technical Report
- **Submit an approved Technical Report** (*thesis substitute*)

- **Pass the Comprehensive Oral Examination** which includes a defense of the student's technical report
- **At least 12 credits** of engineering electives selected, [as described here](#)
- **A minimum of 24 credits** in formal coursework, 15 credits must be from ENVR (excluding ENVR 400, 991, 992)
- **A minimum of 30 credits total**, which can include [transferred credit](#)
- **A minimum of 24 credits in residence**: these credits correspond to credits obtained through registration at UNC- CH

In accordance with Graduate School rules, some degree requirements can be transferred. See the [UNC Graduate School handbook](#) for most current guidance.

Additional information about the professional track Master's Technical Report and Oral Comprehensive Exam: All students on the professional track are required to take the experiential course Environmental Crisis Management (ENVR 992.003). This will be a culminating experience that features a multi-disciplinary team and a real-time simulation of environmental and humanitarian emergencies such as a train derailment, major chemical spill, disease outbreak, or population displacement. Students prepare an integrated Technical Report that focuses on either a problem during the Environmental Crisis Management course, or a separate engineering problem. The Technical Report serves as the thesis substitute. In addition to the Technical Report, the project will be presented orally as part of the final comprehensive oral examination (also required by the Graduate School).

This is the [MSEE \(Professional Track\) Course Planning Worksheet](#)

Degree Requirements (Research Track MSEE)

The following requirements must be met for the **Research Track MSEE**:

- Students and their advisors should develop a written coursework plan during the first semester of study.
- Students must complete at least 12 hours of engineering coursework offered in the Department of Environmental Sciences and Engineering (see attached list) or graduate-level engineering courses from another institution. Courses taken at another institution must be approved by the student's advisor and must not have counted toward an undergraduate degree elsewhere, if they are to count towards this requirement.
- Students who have not already had an undergraduate or graduate course in probability and statistics and an undergraduate or graduate course in the biological sciences must take an appropriate course on each topic while in the MSEE program. The acceptability of courses to fulfil these requirements should be decided after consultation with the student's advisor.
- An MSEE student research committee must be formed and include at least three

members; two members must be from among the environmental engineering faculty. At least one committee member must hold a degree in engineering as noted in the list of engineering faculty.

- **SPHG 600:** Introduction to Public Health
- **ENVR 400:** Departmental Seminar. Register for 0.5 credits during the first semester and every semester until *all [requirements of ENVR 400](#) are completed* (15+ sessions must be attended and assignments completed)
 - More information can be found here: weinberg.sph.unc.edu/400/
- **ENVR 601:** Epidemiology for Environmental Scientists **EPID 600:** Principles of Epidemiology for Public Health
- **ENVR 989:** Environmental Crisis Management
- **A minimum of three credits of ENVR 991,** Research in Environmental Sciences and Engineering
- **A minimum of three credits of ENVR 992,** Master's Technical Report. Students register for the section associated with their faculty advisor
- **Submit an approved Technical Report** (thesis substitute)
- **Pass the Comprehensive Oral Examination,** which includes research defense
- **At least 12 credits of engineering electives** selected, [as described here](#)
- **A minimum of 24 credits in formal coursework,** 15 credits must be from ENVR (excluding ENVR 400, 991, 992)
- **A minimum of 30 credits total,** which can include [transferred credit](#)
- **A minimum of 24 credits in residence:** these credits correspond to credits obtained through registration at UNC- CH

In accordance with Graduate School rules, some courses can be transferred. See the [UNC Graduate School handbook](#) for most current guidance.

Additional information about the research track Master's Technical Report and Oral Comprehensive Exam: This report is based on the student's research. Format and submission instructions are provided below. Student provides the draft technical report to their research committee in advance of their Oral Comprehensive Exam. This meets the Graduate School requirement as a thesis substitute. The Oral Comprehensive Exam is conducted by the 3-member research committee. It meets the Graduate School requirement for a Comprehensive Exam and includes a defense of the student's research.

This is the [MSEE \(Research Track\) Course Planning Worksheet](#).

Approved Engineering Electives

[The MSEE website](#) provides a list of approved [engineering electives and general electives](#) that can be chosen.

There are other [courses in ESE](#) that may be of interest to students in the MSEE program as well. Note that the general electives do not count toward the 12 hours of engineering coursework required for the MSEE degree.

Doctor of Philosophy (PhD) Degree

The PhD, a terminal degree, is intended for students with a strong background in the sciences or engineering and prepares graduates for careers in basic and applied research, education, advanced practice, and management in the field of environmental sciences and engineering. Research, and publication in peer-reviewed journals, is a major focus of a PhD education.

PhD requirements and guidance are not provided here. They can be found in the [Gillings Doctoral Handbook](#). A brief summary is below.

Competencies developed by ESE faculty define what students should know and be able to do upon completion of the PhD program. Competencies guide our curriculum planning process and serve as a measure against which student achievement is assessed. Following are the degree-specific competencies for the PhD in Environmental Sciences and Engineering:

- Identify key knowledge gap(s), integrate knowledge, and design sound research strategies to fill gap(s) in knowledge in a specific area within environmental sciences and engineering.
- Develop the ability to critically evaluate environmental sciences and engineering research.
- Demonstrate depth of knowledge in a specific area within environmental sciences and engineering to support success in research.
- Develop skills to successfully execute a research design within the discipline of environmental sciences and engineering.
- Develop the ability to present/communicate environmental sciences and engineering research results formally to a broad audience.

Success in achieving these competencies is measured by the successful completion of all degree requirements including formal course work; a comprehensive written examination; a preliminary oral examination (defense of the thesis proposal); preparation of a dissertation; and final oral defense of the dissertation. All PhD students prepare a research proposal and present their work in the Departmental Seminar (ENVR 400). Although not a requirement, most will present their work at national and international meetings and publish in the peer-reviewed literature.

Degree Requirements

Requirements for students pursuing the PhD in Environmental Sciences and Engineering can be found [here](#).

This is the [PhD Course Planning Worksheet](#)

Bachelor's-to-Master's BS/MS, BSPH/MS, BS/MSPH, BSPH/MSPH, BS/MPH, BA/MPH, BSPH/MPH Degrees

Any student with sufficient STEM coursework at UNC Chapel Hill (BS or BSPH) is eligible to apply for a Master's degree (MS, MPH, MSPH) at ESE. A BA student may apply for the Bachelor's-to-Master's BA/MPH with adequate completion of STEM courses. This allows UNC students to complete a Bachelor's and Master's degree in an accelerated time frame.

- A participating UNC student may take 12 credit hours toward the MS, MSPH or MPH degree while pursuing a Carolina undergraduate degree and double count those credits toward the Carolina graduate degree program. The double counted work must be at the more advanced graduate level (at minimum, numbered 400 and above).
- Before applying for the MS or MSPH, the student must have:
 - A research advisor: Interested students should identify an advisor as soon as possible, preferably by the fall of the junior year. This enables a student to begin research on the thesis project well before formally starting the master's
 - A STEM major from UNC-Chapel Hill (BS or BSPH)

[More information about Bachelor's-to-Master's programs here.](#)

For the **MPH program**, students should ideally **pre-apply in their junior year** and apply through The Graduate School for admission in their senior year. See [Dr. Courtney Woods, Director of MPH EHS](#) and the link above for details and the application link.

For the MS and MSPH programs, students apply in their senior year. See [Academic Coordinator Jennifer Joyce Moore](#), for application link.

The overall graduate requirements for any Bachelor's-to-Master's degree are the same as for the regular Master's degree (outlined above for each Master's degree). Likewise, the degree-specific competencies are the same as the corresponding stand-alone master's degree. Additional details are described below.

Timing issues for students considering the Bachelor's-to-Master's degree

Three to four semesters before anticipated completion of Bachelor's program: plan coursework to accommodate all Bachelor's degree requirements and the transferable graduate credits; meet with the ESE Academic Coordinator to verify program requirements; for Bachelor's-to-MSPH or -MS, begin to identify a research advisor in ESE.

- **Students pursuing the Bachelor's-MSPH or MS should register for 0.5 credits of ENVR**

400 beginning senior year. After you have completed the contract for admission to the Bachelor's-to-Master's degree program (see link above) you should request that ESE Student Services send your name and PID to the ENVR 400 instructor. After enrolling in ENVR 400, begin attending ENVR 400 seminars and completing assignments as documented on the ENVR 400 webpage (<http://www.unc.edu/~weinberg/400/>). It is important that you study the requirements in the ENVR 400 syllabus (or website).

- Plan coursework for dual degree year.

Students are encouraged to contact ESE Student Services if they are interested in the Bachelor's-to-Master's program. The ESE Academic Coordinator will help develop a course planning worksheet, ensure there is a link to an advisor, and review the courses that will be transferred. Once admitted to the master's program, a [transfer credit form may be submitted](#) to The Graduate School.

Dual Master's Programs with City and Regional Planning (MCRP)

The Department offers dual degrees with the UNC-Chapel Hill [Department of City and Regional Planning](#) (CRP), one of the oldest and most distinguished of its kind in the country. This allows a student to complete two Master's degrees within three years. Students must fulfill the requirements of both degrees, though **a single final research project can count for both departments, as long as it fulfills both sets of requirements.** Any ESE master's degree can be taken as part of the joint degree. Typically, a student would spend one year in one department, the next in the other, and the final year completing the requirements for both degrees. Nine credits (for the MS and MSEE) or twelve credits (for the MPH or MSPH) may be cross-credited. Students should be sure to communicate with the Academic Coordinator of both departments near the end of each year, to ensure that matriculation into each department goes smoothly.

Students can, but need not, be admitted to both degrees simultaneously – i.e., a student could spend one year in one program before applying to the other, or a student could be admitted into one and decide later that they wish to embark on the other. However, admission to the two (ESE and CRP) degrees is a separate process.

ESE degree requirements, degree-specific competencies and measures of success in mastering competencies in the Dual Master's Program with CRP are similar to the corresponding stand-alone ESE master's degree. In particular, this requirement extends to completion of ENVR 400. **Students should register for 0.5 credits of ENVR 400 and begin attending ENVR 400 seminars as soon as possible.** Students are expected to sign in, attend 15 seminars, and complete associated assignments. ENVR 400 requirements are provided [here](#).

Students are encouraged to get in touch with ESE Student Services if they are interested in the Dual Master's Program with CRP.

Master's Graduate Degree Requirements At-a-Glance

Degree	MSPH	MSEE	MS
Minimum Credits Required for Graduation	42	30	30
ENVR 400 *	≥15 Seminars attended & feedback	≥15 Seminars attended & feedback	≥15 Seminars attended & feedback
Formal Coursework	≥24 credits	≥24 credits	≥24 credits
Graduate Coursework in ENVR	≥15 credits	≥15 credits	≥15 credits
Engineering Coursework		≥12 credits	
Research Skill	REQUIRED		REQUIRED
Formal Minor (Optional)**	≥9 credits	≥9 credits	≥9 credits
Public Health Core***	REQUIRED		
Practicum (ENVR 981, 1+credits)	REQUIRED		
Introduction to Public Health Course (SPHG 600)		REQUIRED	REQUIRED
Coursework in Epidemiology‡	SPHG 712	ENVR 601 or EPID 600	ENVR 601
Research Hours (ENVR 991)	≥3 credits		≥3 credits
Master's Technical Report (ENVR 992)	≥3 credits	≥3 credits ENVR 992 or ENVR992.03	
Master's Thesis (ENVR 993)			≥3 credits
Committee††	≥3 members	≥3 members	≥3 members

*Note feedback requirements on ENVR 400 website (syllabus). Register for 0.5 credits every semester while requirements are being met

**These credits are taken in addition to ENVR requirements

***Consists of SPHG 711, SPHG 712, SPHG 713, SPHG 721, SPHG 722

††The committee works with the student to tailor and approve each student's 1) program of courses, 2) research plan, 3) track progress to degree, and 4) assess the written and oral thesis, technical report or dissertation

III. Academic Reminders

ENVR 400 - Seminar Series

ENVR 400 is intended to provide students with exposure to the breadth of research activities in the Department. It also provides an opportunity for doctoral students to gain experience presenting their research to a diverse audience. Attendance and feedback policies are designed to encourage students to support their colleagues in this endeavor, to provide feedback to them, and to ask questions to gain a better understanding of their work.

Students who matriculated prior to Fall 2021 should follow the rules in place before then but refer to the [course website](#) to ensure that you are fully acquainted with them. Students beginning their matriculation in Fall 2021 or later semesters should follow the rules described in this document. For specific descriptions of terms used here (such as attendance credit, hours of credit, feedback etc.), please refer to the appropriate links on the [course website](#). Students pursuing doctoral degrees must receive attendance credit for 30 seminars (and complete associated assignments/feedback) in the ENVR 400 Seminar Series with at least 15 before admission to doctoral candidacy. PhD students must also present a seminar in the series no later than the semester before the one in which the dissertation defense (final exam) is scheduled. ***Seminar attendance credits received by students while on the Master's track in this department carry over to the PhD track.***

Students pursuing master's degrees must receive attendance credit for 15 seminars (and complete associated assignments/feedback) in the ENVR 400 Seminar Series. Students must begin meeting the ENVR 400 requirement in the first semester of their program. They should register for 0.5 credits every semester they plan to attend ENVR 400 toward fulfilling its requirements. Students must receive a minimum of 4 attendance credits each semester to receive a Pass grade for that semester. Master's students continue to register and complete ENVR 400 requirements until they have received 15 attendance credits and have presented their own seminar. Students should contact the instructor of the course to schedule their seminar presentation. Typically, this should be given no later than the semester in which they intend to graduate and they should contact the instructor during the semester prior to the one in which they desire to present.

To receive attendance credit, students must attend, answer the questions posed by the lecturer correctly, and complete assignments (feedback) as specified on the [course website](#). Each semester between 8 and 10 seminars are scheduled in the ENVR 400 series at a fixed time and place identified on the course website and the course Sakai site. You must submit feedback for at least half of the seminars that you attend in any semester. This means that if you attend nine seminars and only provide feedback for four of them, you will only receive credit for eight seminars. If you provide feedback for five or more, all nine will count. Feedback **cannot** be submitted in a future semester to count against attendance in a different semester. If a student does not receive at least 4 attendance credits during a semester in which they are registered for ENVR 400, they will receive an incomplete which can be converted to a Pass grade in a subsequent semester once the requirement for that previous semester is met. However, there is

no double counting and future attendance credits will only be given once the incomplete is converted to a Pass grade. Students are responsible for monitoring their progress and must report any discrepancies in their record without delay to the instructor. If an Incomplete grade remains for more than 2 semesters, the student will automatically receive a Fail grade which will prevent the student from graduating.

This course meets a discipline specific competency and successful completion is required for graduation.

This course is currently (as of Fall 2022) being taught in a remote format. In semesters when the course is taught “in person,” students will be expected to be present in person to receive attendance credit unless special permission is obtained in advance. Details will be provided in the syllabus and course website.

*MPH students are encouraged to attend ENVR 400 to broaden their graduate experience but are not required to enroll in or meet the ENVR 400 graduation requirement.

**Bachelors'-to-Master's students may enroll for 0.5 hours of credit and start attending ENVR 400 seminars as soon as they have expressed an interest in the Bachelor's-to-Master's degree.

Undergraduate students should contact the ENVR 400 instructor to obtain permission to register.

ENVR 981 (Practicum in Public Health)

The practicum is a planned, supervised and evaluated practice experience. The student will carry out a meaningful project in a professional setting, under the supervision of a qualified Preceptor who is a practicing Public Health professional and is identified ahead of time. The practicum may be paid or unpaid.

MPH students must complete a 200-hour practicum and guidelines will be provided in SPHG 701. MSPH students must complete a 45-hour practicum as part of the degree program. The remaining instructions below apply **only** to the MSPH practicum.

ENVR 981 may be taken for a variable number of credit hours (minimum 1 credit), depending on the scope and duration of the proposed practical experience. Students should enroll in ENVR 981 in the semester that they plan to complete and submit their practicum products. Each ESE faculty member will have a section identified for this course and may serve as instructor/Departmental Representative (see below). The student must register for ENVR 981 for at least one semester before graduation and may register for more than one semester. The experience is:

- **planned** – by the student, the Department Representative and the Preceptor;
- **supervised** - by the Preceptor; and
- **evaluated** - by the Department Representative, the Preceptor, and the student.

The Preceptor must be a qualified professional in a field relevant to public health. Most preceptors are expected to be external to the University but can also be a credentialed faculty or staff member (such as a Certified Industrial Hygienist).

Planning and Supervision. Planning should include identification of the Competencies to be achieved. The Department Representative will usually be the student's Faculty Advisor. When the Faculty Advisor or an acceptable substitute is not available, the Director of Graduate Studies or the Chair of the Practicum Committee will be designated to fill this role.

The format of the practicum experience is flexible. The fundamental requirement is that the basic stipulations (planned, evaluated and supervised, in a Public Health context) be met. Placements may be on an ad hoc basis consistent with the student's own initiative, through professional contacts of the student's Faculty Advisor, or arranged through the offices of the Practicum Committee. Examples of appropriate experiences include:

- Service projects or volunteer outreach projects undertaken at the request of external organizations such as Health Departments or community groups. The possibility of this type of placement occurs regularly (but unpredictably) in response to outbreaks of environmentally-transmitted disease outbreaks (e.g., Hepatitis A, Norovirus) or local sanitation issues (e.g., air or water quality issues, solid or liquid waste disposal). A qualified Preceptor can usually be identified from among the Health Department staff or Community Organizers.
- Field experiences in on-site data collection. These may involve both an internal professional preceptor and an external preceptor. Examples of these have included:
 - Occupational Hygiene. For example, sampling of airborne contaminants at workplace sites such as auto body shops or pesticide application areas.
 - Environmental sampling in the vicinity of concentrated animal feeding operations (CAFOs), which are a health problem in eastern North Carolina.
- Internships with agencies such as water and energy utilities, environmental consulting firms, Public Health and Environmental Health Departments, non-governmental organizations (NGOs), federal agencies (e.g., US Environmental Protection Agency, National Institute for Environmental Health Sciences, Centers for Disease Control and Prevention), or international agencies (e.g., World Health Organization). These include paid positions such as Student Contractor and competitive summer internships. The Preceptor would usually be the workplace supervisor.
- Participation in a Project-based Course to which an external professional contributes substantially.
- Public Health Practice (PHP) component of a student's master's technical report project. Placement would usually be arranged through the student's Faculty Advisor. Agencies such as those identified above under Internships may provide suitable environments.

Opportunities such as Service Projects, Project-based Courses, and Internships are sometimes advertised through ESE Student Services and administered (i.e., participant selection, matching) through the Practicum Committee. Field experiences and PHP research components will be arranged by the respective Faculty Advisor.

Prior to beginning the Practicum, the students will submit the following items in a learning agreement:

- Practicum Working Title and Summary that generally describes the proposed project title, student's role and activities you will be engaged in at your practicum site and how the practicum addresses your academic and career goals (min 250 words),
- Two ESE MSPH competencies that will be achieved through the practicum,
- A work Plan with time estimates and estimated completion dates beside each task.
- A description of proposed products. As a part of your practicum, you must produce at least two products for the practice setting, which demonstrates and allows assessment of competency attainment. Examples include "written assignments, projects, videos, multi-media presentations, spreadsheets, websites, posters, photos or other digital artifacts of learning." Describe (with some specificity) what you anticipate those two products will be.

Documentation of practicum hours. The student shall keep a log of the hours dedicated to the practical experience that must include at least the following information: date, number of hours, and brief description of the tasks performed on each day. The log shall be signed by the student and the Preceptor, and submitted to the Department Representative and the ESE Student Services Office at the end of the semester. This document shall remain part of the student's file.

Evaluation. At the end of the practicum the student should submit to the ESE Student Services Office their final products and an exit survey A 2-3 page paper in which the context, goals, accomplishments and impact of the practicum experience are succinctly and thoughtfully summarized should be submitted to the Department Representative and the Preceptor. This paper should, if appropriate, be incorporated into the section of the student's Technical Report in which the public health relevance and impact of the student's work is discussed. The student's committee is encouraged to pay special attention to this section when evaluating the student's Technical Report. Additional evaluation criteria may be established by each instructor and, if any, communicated to the students registering for that instructor's section of ENVR 981 at the beginning of the relevant semester. The Department Representative and the Preceptor in consultation award a grade for the course based, in part, on the paper and any additional evaluation criteria (see above).

Course Credit will be awarded for ENVR 981 based on the time and effort commitment on the part of the student. Forty-five (45) hours of active effort will be considered equivalent to one credit hour. Since the level of effort may not be predictable at the outset (particularly for service projects), the student should register for a conservatively low number of credits at the outset and adjust registration in subsequent semesters as appropriate.

These forms can be found on the [ESE Graduate Students Canvas site](#) (Files > Practicum). Please contact [ESE Student Services](#) to gain access to these resources.

ENVR 991 - Research in Environmental Sciences and Engineering

Students should register for ENVR 991 each semester they are doing research. Research credits should be a reflection of the research effort of the student. Students can register for 1- 9 credits of ENVR 991 per semester. Research hours will typically make up a significant amount of credit hours each semester, and typically means a full-time student will carry a total semester load of approximately 16 credits. Please note, 16 credits is the maximum number of credit hours a graduate student can register for during a semester, without an exception to policy (i.e., tuition increases above 16 credits). Keeping in mind these guidelines, students should speak with their faculty advisor to determine the appropriate number of credits of ENVR 991 for which to register.

Students who are near the end of their program, and registered for either ENVR 992 or 993, please note that full-time registration is satisfied by being enrolled in either of these courses. However, you may still need to register for some credits of ENVR 991, depending on where you are with your research. Please speak with your faculty advisor to determine if you need to register for research credits while working on your thesis or professional paper.

Part-time students should speak with their advisors and or the ESE Academic Coordinator should they have questions about registering for ENVR 991.

How to determine your research hours? Each semester, students should register for any desired classes, making sure they are registered full-time (total of 9 credit hours including ENVR 991, or 3 credits of ENVR 992 or 993). Then, if appropriate, the student may increase the number of registered ENVR 991 credit hours until the sum of all credit hours is 16 for the semester. Please speak with your faculty advisor and/or the ESE Academic Coordinator so they can help you calculate the appropriate number of research credit hours for which to register. For guidance in deciding the number of ENVR 991 credits for which students should register, students and advisors may [consult the credit hour definition by the UNC Registrar's Office here](#).

ESE graduate students work hard on research, and this should be reflected in the number of research hours students register for each semester. Registration for research credits ensures that you are enrolled in the correct number of credits that corresponds with the work you are doing, and so department resources are allocated accordingly.

Tuition Note: As outlined by the UNC Cashier's Office, tuition is assessed on a per credit hour basis. For most graduate programs, tuition is capped at full time enrollment, which is nine hours for graduate students. Estimated rates by program can be found using the [tuition estimator](#). This means that 9 -16 credits cost the same amount of tuition. [For more detailed tuition and fees information see the Cashier's website](#).

Transfer Credit

Up to 30 percent of the total hours required for the master's degree (9 credits for MS or MSEE; 12 credits for MSPH or MPH) may be graduate-level courses transferred from another approved institution, or from UNC for courses taken before admission to the masters (e.g., courses taken as a non-degree or Continuing Studies student, an undergraduate, or a degree student in another program).

Finishing and Graduation

All graduate programs offered by the Department of Environmental Sciences and Engineering require the completion of a project. Doctoral students write a dissertation, MS students a master's thesis, and MSPH, MPH and MSEE students complete a technical report. Submission guidelines are as follows.

Thesis (MS)

Please refer to the [graduate school submission instructions](#). After the thesis is revised to the thesis committee's satisfaction, the student will upload it to the ProQuest Theses and Dissertations database (note that there is a fee). The Graduate School will review it before it is published and may require some revisions (usually formatting) from the student. Student should check with their advisor about whether an embargo is desired to avoid problems with journal submission.

The Department's student services office needs the confirmation email from the submission system, and notification from the advisor that it was ready to submit before any paperwork is processed.

Technical Report (MSPH, MPH, MSEE)

The Department requires that the student submit:

1. a digital (PDF) copy uploaded to the [Carolina Digital Repository using this form](#). These will be checked by the student services office before being published on the CDR site. Embargoed reports will become "active" in the system after the embargo ends. Student should check with their advisor about an embargo to avoid problems with journal submission.
2. an electronic is to be provided to the student's advisor.

The Graduate School has strict formatting guidelines for theses and dissertations (see below); these are available on the Graduate School website. MSPH, MPH, and MSEE students are strongly encouraged to adhere to these guidelines when submitting technical reports.

Guidelines for Formatting Theses and Technical Reports

Theses and Technical Reports should follow the formatting guidelines as laid out in the Graduate School [Thesis and Dissertation Guide](#). You can also find information on the [Submission of Final Work](#) webpage. Currently, technical reports (MSEE, MSPH, MPH) are submitted to the Carolina Digital Repository; theses (MS) are uploaded to the ProQuest database through the Graduate School.

IV. Other Important Information

Courses

A current listing of courses is available on our department's [course page](#).

Inter-Institutional Registration

UNC-Chapel Hill has inter-institutional agreements with Duke University, North Carolina State University, North Carolina Central University, and the UNC Campuses in Charlotte and Greensboro. More information is located [here](#) on the Registrar's website. The form must be signed by the student and their advisor before being submitted to ESE Student Services.

Note: *Gilling's policy for accepting inter-institutional classes differs from the UNC Registrar. Before registering for a class, meet with the Academic Coordinator to make sure credit can be transferred and applied.*

Faculty Research Interests

Please see our faculty research page [here](#).

Declaring a Minor

To request a minor, **graduate students** must fill out the appropriate form ("Minor Declaration Form" on the Graduate School's [forms](#) page, and bring it into the student services office. Note that the courses in the minor field must be completed *in addition* to ESE requirements for the graduate degree, as per the Graduate School's handbook.

Waiving School of Public Health Requirements

Students may petition to waive School of Public Health course requirements if they possess the appropriate background, or they may substitute other courses in certain circumstances. More information is available on the [Academic Forms and Policies](#) website.

MS, and MSEE students with previous public health degrees do **not** need to meet the SPHG 600 requirement. Students can find the exemption form that needs to be completed [here](#).

Residency and Tuition Remission

The state of North Carolina distinguishes between residents and non-residents for tuition purposes. Non-residents must pay an out-of-state portion of tuition.

Non-resident students should start taking steps to apply for residency as soon as they arrive. Information on residency is located on the registrar [website](#). US citizens and US permanent residents who are non-residents are strongly encouraged by the Department to apply for NC residency once in state for 365 days. It is possible to obtain residency shortly after a year of living in North Carolina, but only if a substantial number of tasks (e.g. registering a vehicle, registering to vote, paying taxes in North Carolina) are completed within a short period of time after moving to the state. The intent of this process is to demonstrate that the student is intending to set up domicile in North Carolina – not simply live here to go to university.

International students cannot apply for residency, though permanent residents of the United States can (see the [North Carolina State Residence Manual](#) linked to from the Graduate School's website for more information).

Why ESE Graduate Students Need to Gain NC Residency?

We expect domestic students to obtain residency during their first year. You should gain residency as soon as you can because the out-of-state portion of tuition costs each student about \$18,000/year. For students who serve as TAs, the sponsoring department rarely covers the out-of-state portion after the first year. Thus, students need to begin the process of applying for residency as soon as they arrive. Students can reapply every semester until residency is granted.

You can find more information about the NC Residency Eligibility Requirements [here](#).

Insurance

If a student is on the RA/TA/Fellow (GSHIP) plan, they must waive the compulsory UNC Student Blue insurance every semester. If a student is on other insurance (e.g. a spouse's) they must also waive the compulsory UNC insurance every semester.

Otherwise, the student will be enrolled in the regular student plan (and be billed accordingly).

RAs, TAs and Fellows who are on the GSHIP should fill out the 1112.1.1f UNC-CH Graduate Student Health Insurance Program form and submit to the Student Services Office as soon as they can, preferably before August.

Note that for students graduating or coming off payroll, the GSHIP is cancelled quite soon afterward (the end of May for May graduates, or for those coming off payroll in May), so they should make other arrangements as soon as they can, whether through an employer or through the marketplace. Continuing students who are coming off payroll and GSHIP insurance in May can enroll in Student Blue plan at any time of the year as losing GSHIP is considered a qualifying life event to enroll in Student Blue.

Policies for Changing Degree Programs and Advisors

Current students may change their master's degree program with the permission of their advisor. MPH EHS students must apply, if they wish to change into a Master's program in Environmental Sciences and Engineering.

Master's students interested in moving from a master's to a doctoral program should consult with their faculty advisor and the student services office. The Graduate School offers two options: proceeding beyond the master's and bypassing the master's completely. The student is encouraged to talk with their advisor about which option to take. The department might recommend a student apply to the PhD program, which would allow them to qualify for recruitment awards through the department and The Graduate School.

Students may change their academic or research advisor if they find a willing new advisor to take them on. There is no formal process for this, but students should consult with their current advisor, particularly if they are being funded through a research assistantship with that advisor. Their funding does not necessarily transfer.

Students who need assistance handling a problem with their advisor should talk to [the Director of Graduate Studies or the Academic Coordinator](#).

Addressing Students Concerns

Your well-being and positive student experience are important to us. [Please visit and bookmark this page for reference](#). We are committed to addressing issues in a fair, timely and professional manner. We know it will not be possible in some cases, but to help us achieve the best outcome, we ask students to **follow the 5 steps below whenever possible**:

Step 1: Contact your instructor, the individual with whom you have a concern, or your faculty mentor as appropriate. Most concerns can be resolved through discussion between the person(s) involved. If you are uncomfortable interacting directly with the person(s), or if the concern is not resolved satisfactorily, proceed to step 2.

Step 2: Discuss the matter with your department's Director of Graduate Studies (DGS) or the ESE Academic Coordinator. If you have consulted with the DGS, or designee, and still believe the matter has not been dealt with satisfactorily or equitably, proceed to step 3.

Step 3: Discuss the matter with your department chair. If you believe the matter has not been dealt with satisfactorily or equitably, you can proceed to step 4.

Step 4: Schedule a meeting with Charletta Sims Evans, the SPH Associate Dean for Student Affairs (simsevan@email.unc.edu), if you need further consultation.

Step 5: If the issue is still not resolved and you are a **graduate student**: schedule a meeting with Kate McAnulty, the associate dean for student affairs in The Graduate School (kmcanulty@unc.edu). **Undergraduate students**, contact the [Office of Dean of Students](#).

Room and Audio/Video (AV) and Other Equipment Reservations

Relevant information is located on the [Gillings website](#).

Other equipment for check out as well as audio and video editing facilities are located in the basement of the House Undergraduate Library [[link here](#)].

Poster Printing

Conveniently located at the [center of campus on the third floor of Student Stores](#), the UNC Print Stop and Copy Center offers printing and copying services. [You can find more information about poster printing here](#).

Defense Timeline and Announcements

To announce your defense, students should send an email to esestudentservices@unc.edu that contains their name, the type of defense they will complete, date of defense, zoom link or location, thesis or dissertation title, abstract, and committee members (indicate chair/advisor). Please follow the following format/template:

- Student Name
- Type of defense
- Date
- Zoom link or Location
- Title:
- Abstract:
- Committee Members (indicate committee chair):

Defenses should be scheduled at least two weeks before [The Graduate School submission deadlines](#) so that students have time to incorporate any committee edits and complete [submission formatting requirements](#).

Students are encouraged, but not required, to make their defense open to the public.

How to Complete Required Defense Paperwork

Completing the official defense paperwork required by the Graduate School can be confusing. We have laid out where students and faculty need to sign on these forms (**Figure 1 & Figure 2**

on subsequent pages/below). This paperwork should be returned to the ESE Academic Coordinator at esestudentservices@unc.edu.

Students should communicate with their faculty advisor/mentor about what other materials they should bring to their defense.

Figure 1: Master's Comprehensive Exam or Approved Substitute Report ([click here to access this form](#) via The Graduate School – High Res)

Master's Comprehensive Exam or Approved Substitute Report Form
Use this form for
MS, MSEE (research & professional), and MSPH

STUDENTS: complete this section.
 Dept/curriculum/School: ESE/MS or MSEE or MSPH/Gillings



THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
 The Graduate School
MASTER'S COMPREHENSIVE EXAM or APPROVED SUBSTITUTE REPORT

Student's Name _____ PID# _____
 Department/Curriculum/School: _____

PART I: REPORT OF WRITTEN EXAMINATION or **APPROVED SUBSTITUTE**

On behalf of _____ of the examining committee, I certify that the above named student:
 successfully completed the requirement _____
 failed the requirement _____ signature of committee chair _____ date _____
 Check here if student previously failed this requirement. Date(s): _____
 By initiating, the committee chair certifies that this student was registered as required during the term this work was completed.

PART II: REPORT OF ORAL EXAMINATION or **APPROVED SUBSTITUTE**

On behalf of _____ of the examining committee, I certify that the above named student:
 successfully completed the requirement _____
 failed the requirement _____ signature of committee chair _____ date _____
 Check here if student previously failed this requirement. Date(s): _____
 By initiating, the committee chair certifies that this student was registered as required during the term this work was completed.

PART III: REPORT OF THE FINAL ORAL EXAMINATION (defense of thesis)

A majority of the committee for the above named student has judged the thesis defense to be:
 acceptable _____ signature of committee chair _____ date _____
 unacceptable _____

Committee member signature/date _____	Pass/Fail	Committee member signature/date _____	Pass/Fail
---------------------------------------	-----------	---------------------------------------	-----------

Check here if student previously failed exam. Date(s): _____
 By initiating, the committee chair certifies that this student was registered as required during the term this work was completed.

PART IV: REPORT OF THE FINAL THESIS (can be completed at the same time as Part III as appropriate)

A majority of the committee for the above named student has judged the thesis to be:
 acceptable _____ signature of committee chair _____ date _____
 unacceptable _____

Committee member signature/date _____	Pass/Fail	Committee member signature/date _____	Pass/Fail
---------------------------------------	-----------	---------------------------------------	-----------

By initiating, the committee chair certifies that the required edits were made and the final document is approved for electronic submission.

- Submit to the Graduate School after all activities have been successfully completed
- Keep copies for your files

Rev 7/09

FACULTY:
 PART I & PART II:
NOT required for any ESE Master's Degree

FACULTY:
 PART III:
 Required for MSEE (Research and Professional) and MSPH degrees

Committee chair –
 Check "successfully passed/failed," sign & date, initial box certifying registration

Report of Approved Substitute for a Master's Thesis Form must also be completed for MSEE and MSPH degrees – see next graphic

FACULTY:
 PART III & IV:
 Required for MS degree

Committee chair –
 Check "acceptable/unacceptable," sign & date, initial box certifying registration

All committee members - Sign, date, and indicate "Pass/Fail"

This form should be returned the Academic Coordinator, Jennifer Moore (esestudentervices@unc.edu), who will then submit the completed paperwork to the Graduate

Figure 2: Report of Approved Substitute for a Master’s Thesis Form ([click here to access this form](#) via The Graduate School – High Res)

Report of Approved Substitute for a Master’s Thesis Form
Use for MSEE (professional and research track) and MSPH



THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
The Graduate School

REPORT OF APPROVED SUBSTITUTE FOR A MASTER’S THESIS

STUDENTS:

Complete this **top section**. Then, provide your **course number & paper title**

Note: Course number to provide is as follows:

MSEE professional track - ENVR 992.003

MSPH and MSEE (research track) – list ENVR 992 and the section number for your committee chair/faculty advisor

Student's Name _____ PID# _____

Department/Curriculum/School: _____

This student has successfully completed a project or course as a thesis substitute in partial fulfillment of the requirements for the master’s degree.

Project/course title/number and description:

Date work submitted: _____ I certify that this student was registered as required during the term(s) this work was completed.

signature of committee/department chair date

FACULTY:

This form required for MSEE and MSPH degrees.

Complete this section of the form. **Sign and date.**

Note: This form should be completed at the same time as the **Master’s Comprehensive Exam or Approved Substitute Report Form**

This report is required in **all** instances where a formal thesis is not submitted. Where approved substitute is a course in progress, please indicate the number of that course and “in progress” on the date submitted line.

Substitute must be on record has having been reviewed & approved by the Graduate School.

Submit copies 1 and 2 to the Graduate School. Keep copy 3 for your departmental file.

NOTE: Student must be registered as required during the term(s) this work was completed.

revised 6-2007

This form should be returned the Academic Coordinator, Jennifer Moore (esestudentservies@unc.edu), who will then submit the completed paperwork to the Graduate