



**MS in EHS – Toxicology
Student Handbook**

2025 – 2026 Academic Year

This handbook has been created to ensure EHS students are familiar with Department and School procedures and protocol.

Important resources:

[EHS Department
website Official
MSPH handbook](#)

Questions should be directed to [Nina Kulacki](#), Director of Academic Programs or [Dr. Greg Freyer](#), Director of EHS Master's Programs.

For a detailed academic calendar for 2025-26, please see the [Mailman Academic Calendar](#).

Academic Honesty & Honor Code: All candidates are expected to adhere to the required standards for academic and scientific integrity, which can be [found here](#).

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Advising and Administrative Resources

Faculty Advisor

Each student is assigned an EHS faculty advisor at the start of the program. Students are expected to **meet with their advisor at least once per semester** to review their course plan prior to the end of the add/drop period. It is important for students to be proactive in scheduling these meetings and checking in with their advisor periodically. Students must also contact their advisor to discuss the details of their required Thesis.

Regardless of one's assigned faculty advisor, students are welcomed and encouraged to meet with any faculty member in the Department and with [Nina Kulacki](#). Questions, or requests to change an assigned faculty advisor, should be directed to Ms. Kulacki.

Academic Programs Office in EHS

The Director of EHS Master's Programs, [Dr. Greg Freyer](#), and the Academic Director of Academic Programs, [Nina Kulacki](#), are the primary points of contact in the Department for administrative issues related to the academic program. They implement policies established by the Columbia University Mailman School of Public Health (*CUMSPH*) and by the Department of Environmental Health Sciences (*EHS*). Additionally, they can provide information about program requirements and address any questions or concerns.

Writing Center Resource

The [Writing Center](#) provides writing support to undergraduate and graduate students. In one-on-one consultations and workshops, our consultants offer feedback and strategies to help you improve at every stage of your writing, from brainstorming to final drafts.

Teaching Assistant (TA) Opportunities for EHS Department-based Courses

Any full-time EHS student in good standing may request to be a TA for an EHS course by contacting [Nina Kulacki](#).

Please note: *Students in their first semester are NOT typically eligible to TA.*

Requirements for consideration: Students who TA in EHS must:

- Be a full-time student in good academic and conduct standing.
 - The applicant's academic and behavioral standing will be confirmed prior moving to the next stage of the application process.
- Participate in assigned/needed CourseWorks/Canvas training session(s).
- Participate in required EHS AV training.
- Be able to devote up to 10 hours per week to the TA-ship. This may include, but is not limited to:
 - Time spent in class (*students should be available to sit in the course for the duration of the semester*).
 - Time spent outside of class for scheduled office hours, grading, and preparation of teaching materials, which might also include time prior to the semester in which the course is scheduled.
 - **Note:** All students must be available to hold office hours outside of the regular course meeting time if this is required for the course. Office space requests should be sent via email to [Brandy Coleman](#).

Compensation

- TA compensation for the 2025-26 academic year is based on a \$29.51 per hour model. The salary amount in the final offer letter will be the set amount for the position assigned to a student.

To be considered for an EHS TA position

- Respond to the call for applications – sent by [Nina Kulacki](#) with the details of the requested course and semester offering.
- Nina Kulacki will confirm all TA appointments via email. Students will then be directed to the EHS Business Office to complete payroll documents prior to the semester in which they will serve as a TA.

Other TA opportunities in the School

There are also School-wide TA opportunities available in the Core courses. These TA positions are managed by the [Office of Educational Initiatives](#). All students will receive notification of these opportunities through School-wide emails and should reply to that request at that time.

EHS MS Toxicology Degree Requirements

1. EHS Department core course requirements
2. Program coursework
3. Required participation in EHS events
4. Thesis Requirement
5. APEx requirement

This program is designed to be completed in 12 months but can be completed on a part-time basis. Please discuss the part-time option with [Nina Kulacki](#) and [Greg Freyer](#).

Course Requirements/Schedule

Semester	Course Number	Course Name	Credits
Fall 2025	P8308	Molecular Toxicology	3
	P8312	Principles of Toxicology	3
	P6300	Environmental Health Sciences	3
	P8307	Molecular Epidemiology	3
	P8306	Occupational and Environmental Hygiene	3
	P8325	Risk Assessment, Comm., and Management	1.5
Total Fall Credits			16.5
Spring 2026	P8320	Applied Environmental and Industrial Hygiene	3
	P8323	Laboratory Methods in EHS	3
	P8321	Introduction to Data Science for EHS	1.5
	P6360	Analysis of Environmental Health Data	3
	P6370	Journal Club in Molecular Epi and Toxicology	0
	P8313	Toxicokinetics	1.5
	P8334	Computational Toxicology	3
Total Spring Credits			15
Summer 2026	P9303	Applied Environmental Public Health Science (Online)	3
	P9361	Thesis (Master's Essay)	1.5
	Total Summer Credits		4.5
	Total Credits for MS		36

Attendance at Professional Development, Seminars, and Other Required Student Meetings

Every Wednesday, in both Fall and Spring semesters of year 1, all full-time first-year master's students in EHS attend a required lunch meeting. This meeting offers students an opportunity to interact with faculty members and current students in EHS and to address important professional development topics. Attendance is taken each week.

All full-time students must attend at least 3 of the Wednesday meetings per month. If it is necessary to miss a seminar, the student must email [Nina Kulacki](#) prior to that date.

Examples of Required Meetings:

- All master's student meetings
- Casual Conversations and Professional Development attendance
- EHS Speed Networking event
- EHS Alumni Panel

Thesis

All EHS MS students are required to complete a thesis. For these students, the thesis should be directly informed by the research/work for their applied practice experience (APEX). **It is critically important that students identify a possible thesis topic and work with their faculty advisor to identify and confirm a timeline for completion.**

Guidelines for the written thesis in this table:

Section	Content	Pages
Abstract	• A hypothesis should be included in the abstract section that states the problem and results from the study	1 – 2 pages
Table of Contents	• Include major sections and subsections	1 page
Introduction	• A review of current relevant literature	10 – 15 pages
Methods	• A detailed description of methods used in the study	5 – 8 pages
Results	• This reveals relevant data generated from the study	10 – 15 pages
Discussion	• A discussion of how the data supports or contradicts the stated hypothesis and future directions	5 – 10 pages

Suggested MS Thesis Timeline

Note: MS students should populate this with dates and use this as a guide for the steps and approvals needed for successful thesis completion. The dates and deadlines must be reviewed and approved by your advisor.

Milestone	Student Submission Deadlines (to Advisor)	Deadlines for Advisor Feedback (to Student)
Outline		
Introduction		
Results/ Data		
Methods		
Discussion/ Abstract		
Final Draft to 2 nd Reader*		
Final Paper to Advisor for Grade		*For full-time students, this is typically the 2nd week in August. This gives faculty enough time to review and grade the thesis by the deadline for summer grade submission.

***Please refer to the [MSPH Academic Calendar](#) for important deadlines posted by the School.**

APEx Requirement (Applied Practice Experience)

MS students are required to complete a practical experience requirement (*APEx*). For full-time students, this requirement is completed during the summer after the 2 semesters of coursework. *Part-time students will discuss their specific APEx plans with their Advisor and the Director of Academic Programs.* However, some students request approval to fulfill this requirement during the school year.

The range of completed hours typically falls between 150-300 hours but should not be less than 150 hours.

The APEx may take a variety of forms, depending on the student's area of interest. Most MS students opt to do a research project for their APEx and then use this as the basis of their thesis. However, there is the option of doing a APEx such as:

- working with a government agency
- working in a community-based organization
- working with an organization or company that does environmental or toxicological work.

MS students must meet all the following practical experience requirements to graduate:

- Obtain approval from a faculty advisor prior to accepting a position.
- Work with their advisor on the thesis. The thesis advisor may be the person with whom they conduct research. Please discuss this with [Dr. Greg Freyer](#) and your faculty mentor.

EHS APEx Competencies

The EHS APEx experience should meet one or more of the following competencies:

- Apply the principles of exposure assessment to evaluate human exposures to environmental and occupational hazards.
- Apply and synthesize content learned through coursework in environmental health sciences that can be applied to practice in a professional setting.
- Demonstrate an understanding of the complexities of the EHS field and how major stakeholders collaborate with the goal of informing public and private constituency groups of environmental outcomes.
- Involve a topic that is relevant to EHS such as exposure assessment, climate change, environmental policy or toxicology. They can include laboratory studies, field studies, data analysis or study design. The APEx can take place in academia, a government agency, private companies or non-government agencies.
- Identify biological mechanisms whereby environmental and/or occupational agents adversely affect human health.
- Identify factors that affect susceptibility to adverse human health effects of environmental and/or occupational agents.
- Recommend interventions for reducing human exposures to environmental and occupational hazards.
- Communicate effectively, in writing and orally, knowledge of environmental hazards to other professionals and the public, including effective risk communication.
- Knowledge within the area of Molecular Epidemiology, Toxicology, Occupational Health, Industrial Hygiene, Climate Change, or Environmental Policy.

Graduation Procedures

To receive the MS degree, students must apply through the School systems. Form submission details and deadlines are set by the School.

Note: *Full-time students will complete the program in August, so they will receive their degree in October.*

August 1 for October degrees
December 1 for February degrees
February 1 for May degrees

The Mailman School of Public Health convenes one commencement ceremony annually. All graduates from that academic year are invited to participate in the May ceremony. If you would like to participate in the ceremony, it is expected that you have completed all course requirements or will complete the final courses over the summer.

If a student applies for graduation but does not meet degree requirements at that time, their application will be moved to the following degree conferral date. The student should request a meeting with Nina to review and confirm the plans for successful program completion.

Alumni Information

Contact with the Department

Upon completion of the program, we request that students provide the following information to [Nina Kulacki](#) (*typically requested via a survey*):

- Forwarding US mailing address
- Forwarding (*non-Columbia*) email address
- Details of next position (*if known*)

Important information about your Columbia email address upon graduation

Upon graduation, email addresses are slated for termination. If students would like to continue using their Columbia email address after graduation, they should [review the details found at this link](#).