

Environmental Metrology & Policy, MS

Modality

On Campus

Program URL

<https://emap.georgetown.edu/>

The Master of Science in Environmental Metrology & Policy emphasizes expertise in identifying health and ecological risks through precise, standardized measurements of pollutants. With a scientific and evidence-based curriculum, students learn to formulate regulatory frameworks and effective strategies for policymaking. Students are also equipped with skills to use metrology to address pressing environmental issues.

Upon graduation, students are proficient in identifying and quantifying accurate and reliable legacy and emerging environmental pollutants so that impactful environmental policies can be crafted based on the soundest scientific evidence.

Academic Policies

To be in good academic standing over the period of studies, EMAP students are required to maintain an average GPA no less than 3.0. Any probation and dismissal will follow the Graduate School's policy and guidance.

Requirements

This program is no longer admitting new students.

Program Requirements

Students must successfully complete 35 credits with an overall accumulative GPA of 3.000 in order to qualify for graduation. Full-time students can expect to finish the program within two academic years.

Plan of Study

The standard two-year course schedule is as follows:

Course	Title	Credits
Fall I		
EMAP 5501	Chem of Environ Exposures	3
EMAP 5502	Statistical Methods Metrology	3
EMAP 5504	US & Int'l Enviro Laws & Pol	2
EMAP 5505	EnviroToxicology&Epidemiology	2
EMAP 5500	Weekly Seminars	0
Credits		10
Spring I		
EMAP 5503	Environmental Economics	2
EMAP 5511	Environmental Metrology	2
EMAP 5512	Princ of Instrumental Analysis	3
EMAP 5514	Environ Risk Assessment & Mgt	2-3
EMAP 5515	Adv Env Pol Making Science I	2

EMAP 5500	Weekly Seminars	0
Credits		11-12
Summer		
EMAP 7952	Program Internship ¹	0
Credits		0
Fall II		
EMAP 5513	MetrologyLab IIA-Guided IndRes	2
EMAP 5516	Adv Env Policy Making Sci. II	2
Elective selected by the student		3
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EMAP 5500	Weekly Seminars	0
Credits		10
Spring II		
EMAP 7998	Capstone Project A	1
EMAP 5517	Data Sci & Mach Learn Env Met	2
EMAP 5520	Toxicity Testing for 21st Cent	2
Credits		5
Total Credits		36-37

¹ All students participate in a fully funded 10-week summer internship at either the National Institute of Standards and Technologies or the U.S. Environmental Protection Agency.

Thesis Requirements

Students must complete a summative capstone project with a thesis in the fourth semester of the program. The research topic is based upon the students' internship experience and should address a contemporary environmental issue.