

# M.S. in Environmental Science

---

## Degree Requirements

A minimum of 30 degree credits is required. Candidates must consult with the graduate advisor (not thesis advisor) in designing appropriate programs of study.

Students must attain a minimum GPA of 3.0 in the core courses listed below, and a minimum overall GPA of 3.0.

Seminar: In addition to the minimum 30 degree credits required, all students who receive departmental or research-based awards must enroll each semester in EVSC 600 Environmental Science Seminar.

## M.S. in Environmental Science (courses only)

Code	Title	Credits
<b>Core Courses</b>		
EM 631	Legal Aspects in Environmental Engineering	3
EVSC 610	Environmental Chemical Science	3
EVSC 612	Environmental Analysis	3
EVSC 616	Toxicology	3
EVSC 627	Environmental Microbiology	3
<b>Elective <sup>1</sup></b>		
Select five of the following:		15
EVSC 602	Special Topics in Environmental Science I	
EVSC 611	Hazardous Waste Management	
EVSC 613	Environmental Problem Solving	
EVSC 614	Quantitative Environmental Risk Assessment	
EVSC 615	Global Environmental Problems	
EVSC 702	Special Topics in Environmental Science II	
EVSC 711	Advanced Environmental Analysis	
EVSC 725	Independent Study I	
EVSC 726	Independent Study II	
ENE 673	Sustainability and Life Cycle Analysis	
ENE 672	Stormwater Management	
ENE 660	Introduction to Solid and Hazardous Waste Problems	
ENE 662	Site Remediation	
ENE 664	Physical and Chemical Treatment	
ENE 665	Biological Treatment	
CE 602	Geographic Information System	
CHEM 664	Advanced Analytical Chemistry	
R120 551	Biology Of Pollution	
R120 522	Resource Sustainability	
R120 534	Biological Invasion	
R120 523	Scale Of Biodiversity	
IE 615	Industrial Hygiene and Occupational Health	
EPS 612	Introduction to Environmental Policy Studies	
EPS 622	Sustainable Politics and Policy	
EPS 614	Environmental Economics and Management	
EPS 638	Physical Geography	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Courses are offered at NJIT and Rutgers-Newark and selected with the graduate advisors (not thesis advisors) approval.

**M.S. in Environmental Science (Master's thesis)**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Core Courses</b>		
EM 631	Legal Aspects in Environmental Engineering	3
EVSC 610	Environmental Chemical Science	3
EVSC 612	Environmental Analysis	3
EVSC 616	Toxicology	3
EVSC 627	Environmental Microbiology	3
<b>Thesis <sup>1</sup></b>		<b>6</b>
<b>Track 1</b>		
EVSC 700B	Master's Project	
EVSC 701B	Master's Thesis	
<b>Track 2</b>		
EVSC 701B & 701B	Master's Thesis and Master's Thesis	
<b>Track 3</b>		
EVSC 701C	Master's Thesis	
<b>Elective <sup>2</sup></b>		
Select three of the following:		9
EVSC 602	Special Topics in Environmental Science I	
EVSC 611	Hazardous Waste Management	
EVSC 613	Environmental Problem Solving	
EVSC 614	Quantitative Environmental Risk Assessment	
EVSC 615	Global Environmental Problems	
EVSC 700		
EVSC 702	Special Topics in Environmental Science II	
EVSC 711	Advanced Environmental Analysis	
EVSC 725	Independent Study I	
EVSC 726	Independent Study II	
ENE 673	Sustainability and Life Cycle Analysis	
ENE 672	Stormwater Management	
ENE 660	Introduction to Solid and Hazardous Waste Problems	
ENE 662	Site Remediation	
ENE 664	Physical and Chemical Treatment	
ENE 665	Biological Treatment	
CE 602	Geographic Information System	
CHEM 664	Advanced Analytical Chemistry	
R120 551	Biology Of Pollution	
R120 522	Resource Sustainability	
R120 534	Biological Invasion	
R120 523	Scale Of Biodiversity	
IE 615	Industrial Hygiene and Occupational Health	
EPS 612	Introduction to Environmental Policy Studies	
EPS 622	Sustainable Politics and Policy	
EPS 614	Environmental Economics and Management	
EPS 638	Physical Geography	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> With permission of their research advisor, students intending to do an MS thesis may first register in the EVSC 700B MS Project course. They must receive a satisfactory (S) grade in EVSC 700B before EVSC 701B MS Thesis registration in the immediate following semester with the same advisor. The MS thesis topic should be continuation of the work done in 700B. Alternatively, students may be allowed to register in the 3-credit MS thesis course EVSC 701B in two consecutive semesters, or in the 6-credit MS thesis course EVSC 701C in a single semester with permission of their research advisor.

<sup>2</sup> Courses are offered at NJIT and Rutgers-Newark and selected with the graduate advisors (not thesis advisors) approval.