

Thesis Master's Program Plan (2016) Environmental Engineering (EES)

Environmental Engineering offers three areas of emphasis for the master's program. Students will select an area of emphasis based on their primary interest and complete the required coursework and electives to meet degree requirements. Areas of emphasis are:

- **Engineering Systems for Water Quality (ESWQ)**
- **Water Quality in Natural Systems (WQNS)**
- **Air Quality (AQ)**

REQUIRED COURSES BY AREA OF EMPHASIS

ESWQ Required (25 credits)

- CEE 500 Seminar, 2 CR, to include:
1 CR Env./Water Seminar and 1 CR CEE Dept. Seminar
- CEE 540 Microbiological Process Fundamentals, 3 CR (AUT)
- CEE 543 Aquatic chemistry, 4 CR (AUT)
- CEE 541 Biological Treatment Systems, 3 CR (WIN)
- CEE 544 Physical/Chemical Treatmnt Process, 4 CR (WIN)
- CEE 545 Environmental Organic Chemistry, 3 CR (WIN)
- CEE 549 Adv. Topics in Env. Eng., Chem, and Biol, 3 CR (SPR)
One of the following:
- CEE 599 Wastewater Reuse and Resource Recovery, 3 CR (WIN)
- CEE 599 Environmental Analyses, 3 CR (SPR)
- CEE 547 Lake & Watershed Management, 3 CR (SPR)
- CEE 550 Environmental Chemical Modeling, 3 CR (SPR)
CEE 577 Water Quality Management, 3 CR
(Not offered 2016-2017)

AQ Typical Coursework

- CEE 500 Seminar, 2 CR, to include:
1 CR Env./Water Seminar and 1 CR CEE Seminar
- ATMS 501 Fund of Physics & Chem of the Atmosphere, 5 CR
- CEE 560/ENVH 577 Risk Assessmnt for Env. Health, 3 CR (AUT)
- CEE 480 Air Quality Modeling, 3 CR (WIN)
- ENVH 552 Env. Chemistry of Pollution, 4 CR
- CEE 490 Air Pollution Control, 4 CR (SPR)
- CEE 557 Air Resources Management, 3 CR (SPR)
- ATMS 558 Atmospheric Chemistry, 3 CR
- ENVH 448/548 Community Air Pollution, 3 CR
Also allowed:
- CEE 588 Energy, Infrastructure and the Environment, 3 CR (AUT)
- ENVH 555 Industrial Hygiene Measurement Lab, 3 CR

WQNS Required (21 credits)

- CEE 500 Seminar, 2 CR, to include:
1 CR Env./Water Seminar and 1 CR CEE Seminar
- CEE 462 Applied Limnology, 3 CR (AUT)
- CEE 540 Microbiological Process Fundamentals, 3 CR (AUT)
- CEE 543 Aquatic chemistry, 4 CR (AUT)
- CEE 551 Fate and Transport of Chemicals, 3 CR (AUT)
- CEE 545 Environmental Organic Chemistry, 3 CR (WIN)
One of the following:
- CEE 599 Adv. Remote Sensing and Earth Observation, 4 CR (WIN)
- CEE 547 Lake & Watershed Management, 3 CR (SPR)
- CEE 550 Environmental Chemical Modeling, 3 CR (SPR)
- CEE 599 Env. Analyses, 3 CR (SPR)
CEE 577 Water Quality Management, 3 CR
(Not offered 2016-2017)
CEE 599 Microbial Genetics in Env. Process, 3 CR
(Not offered 2016-2017)

*Check UW Time Schedule or offering departments
for details regarding courses outside CEE.*

ELECTIVES

The remaining course requirements can be satisfied by any 5XX and 4XX level courses in the EES or H&H programs, (with approval by your faculty advisor), as well as a variety of relevant courses from other departments (e.g. departments in the College of the Environment). Students are encouraged to explore the availability of these courses and decide on an individual plan of study that balances depth and breadth, in line with the student's career goals. Some suggested electives outside CEE are shown below. Note: This is not a comprehensive list but rather suggestions for some relevant courses. Refer to the UW Time Schedule or the corresponding department for details regarding courses outside the CEE department.

ATMS 501 Fund of Physics & Chem of the Atmosphere
ATMS 558 Atmospheric Chemistry
ENVH 445 Solid Waste Management
ENVH 548 Community Air Pollution
ENVH 552 Environ Chemistry of Pollution
FISH 473 Limnology

CEE 560/ENVH 577 Risk Assessment, Or
EPI 511 Intro to Epidemiology
ESS 424 Water in the Environment Or
ESS 426 Fluvial Geomorphology
SEFS 523 Env. Applications of Plants: Bioenergy and Bioremediation

Thesis Master's Program Plan (2016)
Environmental Engineering (EES)

GRADUATION CHECKLIST

➤ ***Your First Quarter***

- Submit you approved program plan to the Graduate Advising Office, 201 More Hall by the end of your first quarter. Submit an updated program plan your final quarter if needed.

➤ ***Your Last Quarter***

- Read Graduate School master's degree requirements and policies at:
<http://grad.uw.edu/policies-procedures/masters-degree-policies/>
- Register for a minimum of 2 credits.
- Review Graduate School Dates and Deadlines:
<http://grad.uw.edu/for-students-and-post-docs/dates-and-deadlines/>
- Submit *Master's Degree Request* by deadline at:
<http://grad.uw.edu/for-students-and-post-docs/mygrad-program/>
- Read procedures regarding electronic thesis submission:
<http://grad.uw.edu/for-students-and-post-docs/thesisdissertation/>
- In conjunction with your committee, arrange for your master's defense and notify the Graduate Advisor of details, sending a brief abstract at least one week before defense date. Deadline for defense is 5:00 PM the last day of the quarter.
- Electronically submit your thesis and approval form to the Graduate School by 11:59 pm the last day of the quarter. Note: You may be eligible to pay the \$250 Registration Waiver Fee in order to get a two week extension to turn in your thesis. However, your degree would not be conferred until the end of the following quarter. For more information go to:
<https://grad.uw.edu/policies-procedures/general-graduate-student-policies/graduate-registration-waiver-fee/>
- Submit the online **Final Check-out form** and **CEE Exit Survey**, available from the department website, prior to exiting the department. <http://www.ce.washington.edu/students/masters.html>