Environmental Engineering (EES)

Submission Instructions:
Submit your approved Program Plan to the Graduate Advising Office, 201 More Hall, by the end of your first quarter. Updates may be made as needed. Students are responsible for insuring all degree requirements are met. The Advising Office does not conduct a degree audit until you have applied to graduate.

Minimum 31 coursework credits
Minimum 9 Thesis credits (CEE 700)
Minimum 18 credits of 500 level coursework*
Minimum 18 credits numerically graded 400-500 level CW*
*These 2 requirements may overlap.

Additional pages may be used if you will be registering for more than 4 quarters.

Faculty Advisor
Date

Student
Date

GENERAL DEGREE REQUIREMENTS
42 Total Credits are Required

☐ Minimum 31 coursework credits
☐ Minimum 9 Thesis credits (CEE 700)
☐ Minimum 18 credits of 500 level coursework*
☐ Minimum 18 credits numerically graded 400-500 level CW*
☐ All CEE classes taken for a numeric grade (except Seminars)
☐ 3 credits minimum outside major area of interest
☐ Independent Study/Research (CEE 600) not allowed
☐ 499 credits do not count toward a graduate degree
☐ Classes 300 or below do not count toward a graduate degree
☐ 3.0 minimum cumulative GPA to graduate
☐ 2.7 minimum grade for a class to count

Revised: June 17, 2016
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 Treatment 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)

#### 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)

#### 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 Assessment for Env. Health, 3 CR (AUT)
- CEE 480 Air Quality Modeling, 3 CR (WIN)
- EN VH 552 Env. Chemistry of Pollution, 4 CR
- CEE 549 Adv. Topics in Env. Eng., Chem, and Biol, 3 CR
- ENVH 445 Solid Waste Management
- ENVH 548 Community Air Pollution
- 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)
- EN VH 555 Industrial Hygiene Measurement Lab, 3 CR

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**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

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**Revised:** June 17, 2016
GRADUATION CHECKLIST

➢ Your First Quarter

☐ Submit your 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