Civil & Environmental Engineering  
Non-Thesis Master’s Program Plan (2016)  

Environmental Engineering (EES)  

Name  
Student #  
Admitted Quarter / Year  
Faculty Advisor  

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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 40 coursework credits
- 2 credits CEE Seminar, to include:
  1 credit CEE 500 Dept. Seminar + 1 credit Env./H&H Seminar
- Minimum 21 credits of 500 level coursework*
- Minimum 21 credits numerically graded 400-500 level CW*  
*These requirements may overlap.

- Minimum 21 credits 400 or 500 level CEE courses (not seminars)
- All CEE classes taken for a numeric grade (except Seminars)
- 499 credits do not count toward a graduate degree
- Classes 300 or below do not count
- 3.0 minimum cumulative GPA
- 2.7 minimum grade for a class to count

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.

Revised: June 8, 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 COURSEWORK BY AREA OF EMPHASIS

#### ESWQ Required (25 credits)
- **CEE 500 Seminar**, 2 CR, to include:
  - 1 CR CEE Dept. Seminar and 1 CR Env./Water 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 547 Lake & Watershed Management**, 3 CR (SPR)
- **CEE 559 Environmental Chemical Analyses**, 3 CR (SPR)
- **CEE 599 Wastewater Reuse and Resource Recovery**, 3 CR (WIN)

#### WQNS Required (21 credits)
- **CEE 500 Seminar**, 2 CR, to include:
  - 1 CR CEE Dept. Seminar and 1 CR Env./Water Seminar
- **CEE 462 Applied Limnology & Pollutant Effects on Freshwater**, 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 547 Lake & Watershed Management**, 3 CR (SPR)
- **CEE 559 Environmental Chemical Analyses**, 3 CR (SPR)

#### AQ Typical Coursework
- **CEE 500 Seminar**, 2 CR, to include:
  - 1 CR CEE Dept. Seminar and 1 CR Env./Water Seminar
- **ATMS 501 Fund of Physics & Chem of the Atmosphere**, 5 CR
- **CEE 560/ENVH 577 Risk Assessment for Env. Health Hazards**, 3 CR
- **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 Quality 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

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### ELECTIVES

The remaining course requirements for the MSCE degree can be satisfied by any 5XX and some 4XX courses in the EES or H&H programs, as well as a variety of relevant courses from other departments at the UW (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 course offering details.

| ATMS 501 Fund of Physics & Chem of the Atmosphere | CEE 560 Risk Assessment (ENVH 577), Or | EPI 511 Intro to Epidemiology |
| ATMS 558 Atmospheric Chemistry | ESS 424 Water in the Environment Or | ESS 426 Fluvial Geomorphology |
| ENVH 445 Solid Waste Management | SEFS 523 Env. Applications of Plants: Bioenergy and Bioremediation | |
**CHECKLIST**

**Your First Quarter**

☐ Meet with your faculty advisor and have your program plan approved.

☐ Turn in your approved Program Plan to the Graduate Advising Office, 201 More Hall, prior to the end of your first quarter.

**Your Last Quarter**


☐ Submit the online Master’s Degree Request at: [http://www.grad.washington.edu/mygrad/student.htm](http://www.grad.washington.edu/mygrad/student.htm) by posted deadline.

☐ Update your Program Plan if needed and submit to the Graduate Advising Office.

☐ Submit signed Master’s Degree Warrant to Graduate Advising Office by Wednesday of last day of the quarter.

☐ Prior to leaving the department, submit online Final Checkout form and CEE Exit Survey: [http://www.ce.washington.edu/students/masters.html](http://www.ce.washington.edu/students/masters.html)

☐ Allow 3-4 months for your diploma to arrive. Update your mailing address in MyUW if necessary.