

Civil & Environmental Engineering
Thesis Master's Degree Program Plan - 2016

Hydrology and Hydrodynamics

Program Requirements

All Hydrology and Hydrodynamics students are expected to take all of the Core courses listed below. The program electives are organized according to three tracks: **Hydrology (HL)**, **Hydrodynamics (HD)** and **Fate and Transport (FT)**.

Two credits of CEE 500 Seminars are required for all tracks, to include:

- 1 CR CEE ENVIR/Water Seminar
- 1 CR CEE 500 Departmental Seminar

Core Courses (21 Credits)

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|--|---|
| <input type="checkbox"/> CEE 551 Chemical Fate and Transport (3) AUT | <input type="checkbox"/> CEE 599 Hydraulics of Sediment Transport (4) SPR |
| <input type="checkbox"/> CEE 599 Physical Hydrology (4) AUT | <input type="checkbox"/> CEE 599 Quantitative Water Management (3) WIN |
| <input type="checkbox"/> CEE 599 Data Analysis in Water Sciences (4) AUT | Or |
| <input type="checkbox"/> CEE 475 Analysis Techniques for groundwater flow (3) WIN | <input type="checkbox"/> CEE 578 Water Resources Management & Ops (3) SPR |

Program Electives

Autumn 2016

- CEE 424 GIS for Civil Engineers 3 cr, **(HL)**
- CEE 462 Applied Limnology 3 cr, **(FT)**
- CEE 483 Drinking Water Treatment 3 cr, **(FT)**
- CEE 540 Microbial Process Fundamentals 3 cr, **(FT)**
- CEE 543 Aquatic Chemistry 4 cr, **(FT)**
- CEE 599 Satellite Remote Sensing for Water Res. 3 cr, **(HL)**

Winter 2017

- CEE 481 Hydraulic Design for Env Engrs 3 cr, **(HL)**
- CEE 482 Wastewater Treatment & Reuse 3 cr, **(FT)**
- CEE 545 Environmental Organic Chemistry 3 cr, **(FT)**
- CEE 573 Snow Hydrology 3 cr, **(HL)**
- CEE 599 Open Channel Flow 4 cr, **(HD)**

Spring 2017

- CEE 549 Adv. Topics in Env. Engr., Chem, & Bio 3 cr, **(FT)**
- CEE 570 Hydrodynamics 4 cr, **(HD)**
- CEE 550 Environ Chemical Modeling 3 cr. **(FT)**

Note: Program Electives not offered 2016-2017

- CEE 572 Water Wave Mechanics for Coastal Eng., 4 cr (HD)
- CEE 574 Advanced Hydrology 3 cr, (HL)
- CEE 577 Water Quality Management 3 cr, (FT)

Other Electives

- AA 543 Computational Fluid Dynamics 3 cr, **(HD)**
- ESS 421 Remote Sensing 4 cr, **(HL)**
- ESS 426 Fluvial Geomorphology 5 cr, **(HL)**
- ME 543 Fluid Turbulence 3 cr, **(HD)**
- OCEAN 511 Fluid Dynamics 4 cr, **(HD)**
- OCEAN 512 Geophysical Fluid Dynamics 4 cr, **(HD)**
- SEFS 507 Soils and Land Use Problems 4 cr, **(FT, HL)**
- SEFS 520 GIS 5 cr, **(HL)**
- URBDP 598 Floodplain Management 3 cr, **(HL)**

Refer to UW Time Schedule or the offering department for details regarding courses outside CEE.

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Checklist

First Quarter

- By the end of your first quarter submit approved Program Plan to the Graduate Advising Office, 201 More Hall.

Final Quarter

- Maintain registration quarter of graduation.
- Read Graduate School master's degree requirements and policies at:
<http://grad.uw.edu/policies-procedures/masters-degree-policies/>
- 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/>
- Notify Graduate Advisor of the details of your master's defense (time, date, and location). Send a brief abstract with title to Graduate Advising Office at least one week prior to defense.
- Electronically Submit thesis and approval form to the Graduate School by 11:59 PM the last day of the quarter. If you have minor format edits to make that cannot be completed by the deadline, you may be eligible to pay the \$250 *Registration Waiver Fee* for a two week extension. See Graduate School website for eligibility and instructions regarding the Registration Waiver Fee:
<https://grad.uw.edu/policies-procedures/general-graduate-student-policies/graduate-registration-waiver-fee/>
- If you will not be continuing to the PhD, **submit CEE Final Check-out form** to the Graduate Advising Office, **and online CEE Exit Survey** prior to leaving the department. These forms are available on our website at:
<http://www.ce.washington.edu/students/masters.html>