



CIVIL & ENVIRONMENTAL ENGINEERING
UNIVERSITY *of* WASHINGTON

Undergraduate Advising Handbook 2016-2017



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201 More Hall, Box 352700
Seattle, WA 98195
ceadvice@uw.edu ♦ www.ce.washington.edu

Welcome from the Chair



Welcome to the Department of Civil and Environmental Engineering! You are joining a department with a distinguished history dating back to 1898, and an exciting future built on strong programs and outstanding faculty, staff, students, and alumni. The CEE faculty and staff welcome you as you embark on your pursuit of the Bachelor of Science in Civil Engineering (BSCE).

Although civil engineering is among the oldest of the engineering disciplines, it continues to be among the most important for sustainably meeting fundamental human needs locally and globally, with boundless opportunities for innovation.

Shelter, transportation, water supply, environmental management, and energy systems and infrastructure lie at the heart of any civilization, and each generation of civil engineers has faced the challenge of meeting society's needs in these areas. Like each generation before it, your generation will need to face these challenges with new kinds of constraints, new kinds of tools, and new kinds of partnerships. Equipping yourself for this task begins with your engineering education.

As an alum myself of the Civil and Environmental Engineering undergraduate program at the University of Washington, I am confident you will find the quality of the program here to be first rate, providing you with the technical background and broader skills necessary to enter the profession and/or continue your education at the graduate level. It's a great time to be involved in civil and environmental engineering --- we look forward to helping you prepare for launching your career.

This Advising Handbook is intended to be a resource to help you familiarize yourself with the BSCE program, our department, and your next steps as you pursue the BSCE degree.

The CEE undergraduate advisors, Mariko and Brian, will help you navigate through the academic degree requirements, University policies, regulations, and procedures. You will be assisted by faculty mentor(s) who will help you explore areas of engineering interest, select appropriate senior-year courses given your engineering interests and goals, and offer guidance as you prepare for your professional career launch and/or graduate study.

I wish you the best in your endeavors!

*Gregory R. Miller, Professor and Chair
Department of Civil & Environmental Engineering*

For Faculty Mentors: Thank you for serving as a faculty mentor for our undergraduate students. As a faculty mentor, you provide students with insight and guidance for preparation and entry into the civil and environmental engineering field. You can help students to identify and explore their areas of interests and to select senior-year coursework that support their professional and/or academic goals. You are not responsible for understanding University regulations and academic requirements in detail. Students are encouraged to work with the CEE undergraduate advisors to ensure progress towards their degree.

Questions?

Contact CEE undergraduate advisors at ceadvice@uw.edu, or 206-543-5092, or visit More Hall 201.

The Bachelor of Science in Civil Engineering is accredited by the Engineering Accreditation Commission of ABET <http://www.abet.org/>.

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*The CEE Advising Handbook is also available online at the
CEE Student Resources Webpage in HTML and PDF formats.*

The Civil & Environmental Engineering Department

About the Department

Civil engineering was officially recognized as an academic discipline at the University of Washington in 1898 and granted its first bachelor's degree in 1901. Today, the UW Department of Civil and Environmental Engineering is consistently recognized as one of the world's premier programs in our field, with both undergraduate and graduate programs typically ranking in the top 20 in polls such as US News & World Report and Gorman Report.

The department currently has approximately 380 undergraduate students, 390 graduate students (including residential and online program students), 43 tenured faculty, and 35 staff. The Department is primarily housed in More Hall, with some faculty offices in Wilcox and Wilson Halls.

Research

The CEE department enjoys annual research funding of approximately 15 million dollars. Undergraduates and graduate students participate in faculty research, often working through many of their projects in the department's many research labs and centers.

Degrees

- Bachelor of Science in Civil Engineering (B.S.C.E.)
- Master of Science in Civil Engineering (M.S.C.E.)
- Doctorate of Philosophy (Ph.D.)

Online programs:

- Master's in Construction Engineering (*in collaboration with the Department of Construction Management in the College of Architecture and Urban Planning*)
- Master's in Sustainable Transportation
- Master's in Supply Chain Transportation and Logistics

Areas of Engineering Emphasis Within the CEE Department

- Construction
- Transportation
- Structural
- Geotechnical
- Hydrology and Hydrodynamics
- Environmental

Undergraduate students take classes in all areas as part of their BSCE degree. Students are encouraged to explore their areas of interest and there is no need to specialize in one area, but they can specialize, if they wish.

Undergraduate Majors

CEE majors enter our department as freshmen, sophomores, or juniors. In all cases, admission is competitive.

- Direct Admission (DA)
- Early Admission (EA)
- Upper-Division Admission (UD)

All CEE majors are encouraged to participate in the social, intellectual, and co-curricular life of the Department regardless of their academic year standing.

Note: The CEE Department often uses the terms BSCE majors and CEE majors interchangeably to refer to our undergraduates students in the Department. The University also uses the code "CIV E" to refer to our majors, so expect to see all three. They all refer to our undergrad students in the Bachelor of Science in Civil Engineering (BSCE) program.

An Overview of the BSCE Degree Program

The BSCE Program

The BSCE degree provides excellent preparation for students preparing to enter the civil and environmental engineering profession, as well as for those pursuing graduate education and academic careers. The department enjoys strong placement of our students in industry and in admission to prestigious graduate programs.

Highlights:

- The Department enjoys exceptionally high retention and graduation rates — approximately 95% of students who enter the program in the junior year graduate within two years. Students admitted as freshmen typically graduate in four years.
- Approximately 90% of UW CEE majors pass the Fundamentals of Engineering (FE) exam on their first attempt. Students typically take this exam, the first professional licensing exam, in the autumn quarter of their senior year and pass, resulting in the professional Engineer-in-Training (EIT) license prior to graduation. Nationally, the passage rate for first-time test takers for the FE exam is approximately 70%. (See National Council of Examiners of Engineers and Surveyors, www.ncees.org.)
- Approximately 30% of graduates continue to graduate schools at the UW and in top-ranked institutions across the nation. Many more pursue graduate programs after gaining several years of work experience.

Experiential Learning

All CEE students are encouraged to engage in active learning through internships, independent research or participation in faculty-sponsored research projects, and involvement in extracurricular activities through student societies and professional organizations. Students may receive credits for research under CEE 299 or CEE 499. Participation in student and professional societies, such as American Society of Civil Engineers (ASCE) and competition teams, such as the “Concrete Canoe” and “Steel Bridge,” also provide excellent opportunities for student involvement.

CEE Honors Program

Qualified students may pursue an Honors Program within the Department. Students who have participated in the University’s College Honors Program in their freshman year and have completed the University Honors general education requirements may enroll in the College Honors Program to graduate with “College Honors in Civil Engineering”. Students who wish to enter the Honors Program once admitted to the BSCE degree program may enroll in the Departmental Honors Program to graduate with “Honors in Civil Engineering”.

Honors Program admission requirements: 3.3 cumulative GPA, a 3.45 CEE departmental GPA, “CIV E” major status.

Honors Program graduation requirements: 6 credits of “Ad Hoc” CEE Honors coursework taken as upper-division CEE courses, and minimum 3 credits of CEE 499, an independent Honors project or research under a faculty advisor.

More information regarding the Honors Program is available online at the University Honor Program website: <http://depts.washington.edu/uwhonors/>.

In addition to the Honors program, other forms of academic recognitions include membership in Chi Epsilon, the national honors society for civil engineering students (by invitation to top third of class); quarterly and annual Dean’s List (based on GPA); and Baccalaureate Honors (awarded at time of graduation based on cumulative GPA.).

Curriculum Overview

The requirements for the BSCE degree are listed on pages 8-9.

Important: All students should plan to have completed all of the following CEE program prerequisites **prior to** starting upper-division (300– and 400–level) CEE coursework: MATH 124, MATH 125, MATH 126, MATH 308; CHEM 142; PHYS 121, PHYS 122; AMATH 301 (preferred) or CSE 142; AA 210; CEE 220; ME 230; and 5 credits of English composition.

Acceptable Course Substitutions

- MATH 134-135-136 Accelerated [Honors] Calculus (5 cr each) - Covers the material of MATH 124, 125, 126; 307, 308, 318.
- AMATH 351 Intro to Differential Equations and Applications (3 cr) accepted in place of MATH 307.
- AMATH 352 Applied Linear Algebra and Numerical Analysis (3 cr) accepted in place of MATH 308.
- CHEM 144 series in place of CHEM 142-152
- *For transfer students:* The CHEM 152 requirement may be satisfied by the second course in sequence after CHEM 142 or its equivalent, even when the course is transferred to the UW as CHEM 1XX. (To have the exception approved, notify CEE advising via email, and include your full name, UW ID number, and the transfer institution where the course was taken. Be sure that the most updated transcript has been sent to UW Admissions.)

Direct Freshman Admission (DFA) majors

Please work closely with CEE advising upon entering the University to familiarize yourself with the BSCE degree and to develop an academic plan. It is especially important to develop a plan to complete your CEE program prerequisites during your freshman and sophomore years, so that you'll be ready to start the upper-division (300-level) CEE curriculum in the junior year. CEE program prerequisites must be completed before starting CEE upper-division (300-level) coursework, unless approved by a CEE advisor. Take CEE 100 (one-credit seminar) during winter quarter of freshman or sophomore year to grow more familiar with the department and to learn about the different areas of Civil & Environmental Engineering.

Early Admission (EA) majors

Since the timing for starting and completing CEE requirements often varies for early admits, it is critical that you work closely with CEE advising to develop a degree plan. Completing the prerequisite courses is the first priority before starting the major requirements.

Recommended for Freshmen and Sophomores:

CEE 100 Twenty-First Century Civil and Environmental Engineering (1 cr)
 CEE 250 Environmental Processes and flows (3 cr) NW
 CEE 291 CEE AutoCad (2 cr) - online course

100– and 200– level CEE courses, with the exception of CEE 220, do not apply towards upper-division BSCE degree requirements.

Hints for General Education Requirements:

ECON 200 (Micro Econ) concurrently satisfies the I&S requirement and the Economics Topic requirement.
 IND E 250 (Engineering Economics) concurrently satisfies Engineering Fundamentals Elective and the Economics Topics requirement.
 ME 123 concurrently satisfies Engineering Fundamentals Electives and VLPA requirements.

BSCE Upper-Division Requirements

CEE Junior Year Curriculum

The CEE major coursework consists of eight required 300-level CEE courses to be taken in the junior year. CEE majors normally take the 300-level CEE courses in a pre-arranged sequence (called “Track I” and “Track II”) and complete these required courses in one year. Both tracks consist of the same eight 300-level courses. By taking the 300-level courses in their assigned track, students ensure that they can complete all the required CEE junior courses in one year without time conflicts.

You must stay in your assigned track unless you have discussed making a change with a CEE advisor. Students who are “off-track” should work out an approved graduation plan with the advisor and post this on MyPlan. Course conflicts could potentially delay progress and graduation for students who get off track during the junior year curriculum.

Senior Year Course Work

The senior year curriculum includes Technical Electives, Upper-Division Engineering & Science Electives, CEE 440 (Professional Practice) and a capstone design course. The more flexible curriculum in the senior year allows students to select courses to explore areas of personal interest. *Please see following pages for more information.*

Technical Electives (15 credits)

Students must take 15 credits from the Technical Courses list (see page 10), with at least one “core” course from three of the six different CEE sub-areas. A minimum 2.0 grade is required for each course used to satisfy a “core course” requirement, and none of the Technical Electives credits may be used to satisfy other requirements.

Upper-Division Engineering and Science Electives (UD Electives) (12 credits)

In addition, students take 12 credits of UD Electives. These may include:

- Any 400-level CEE course. Faculty mentors will help to identify appropriate courses based on your interests and goals. A maximum of 6 credits of CEE 498 and 3 credits of CEE 499 may apply toward Upper-Division Electives. (The same course cannot be used to satisfy both the Technical Electives and the Upper-Division Electives requirements.)
- Courses from a list of pre-approved outside-department courses. For a complete list of approved Upper-Division Engineering and Science Courses, see the CEE Student Resources Website.
- Approved Co-op internship (ENGR 321) credits. (Please provide Co-op documentation.)
- Courses approved by petition on a case by case basis. Students are invited to find new and relevant courses which apply to their study and future professional or academic goals, and submit a Graduation Petition to the Undergraduate Committee. (The Graduation Petition is available for download from the CEE Student Resources Website).

CEE majors attend faculty mentoring sessions in April of their junior year to make appropriate course selections for senior year based on their areas of interest and future goals. Students will enter their senior year plan on MyPlan (accessible via MyUW), meet with a faculty mentor to review the plan, and have the faculty member sign off on a printed copy. Signed MyPlans must be submitted to the CEE Advising Office (More Hall 201) prior to the end of spring quarter of junior year. (See also Academic Timeline, page 32.) This will serve as your graduation plan.

Required: CEE 440 and Capstone Design course (CEE 441, 442, 444 or 445)

During the senior year, students take CEE 440 (Professional Practice) in the winter quarter, and a Capstone Design course in their area of interest (one of CEE 441, 442, 444, or 445). The capstone design course is intended to be the culminating event of the BSCE degree program.

The Bachelor of Science in Civil Engineering (BSCE)

CEE majors should have completed all the program prerequisites and many of the general education requirements prior to starting the CEE Junior year, unless otherwise approved by a CEE advisor.

Program Prerequisites: Courses marked with the black diamond (♦) are prerequisites for upper-division admissions. All CEE majors are expected to complete these courses before starting the 300-level CEE courses. A minimum grade of 2.0 is required for each prerequisite course.

Graduation Requirements: Courses listed without the diamonds, as well as the University General Education Requirements, are graduation requirements. They may be completed at anytime prior to graduation. A minimum grade of 1.0 is required for courses used to satisfy graduation requirements, with the following exception:

A minimum grade of 2.0 is required for each of the three “core” courses used to satisfy the Technical Electives requirement. In addition, a minimum 2.0 grade is required in the CEE capstone classes (CEE 441, 442, 444, or 445).

PREREQUISITE AND GRADUATION REQUIREMENTS

Mathematics 24 cr ♦ MATH 124 Calc/Analytic Geom I (5) ♦ MATH 125 Calc/Analytic Geom II (5) ♦ MATH 126 Calc/Analytic Geom III (5) MATH 307 Differential Equations (3) ♦ MATH 308 or 318 Matrix Algebra (3) <i>Statistics: IND E 315* (3) (preferred)</i> <i>or STAT 390 (4)</i>	Written Communication 12 cr ♦ English Composition (5) ENGR 231 † Intro to Technical Writing (3) Additional Writing or Composition (4)
Sciences 15 cr ♦ PHYS 121 Mechanics (5) ♦ PHYS 122 Elect-Mag & Osc (5) PHYS 123 Waves (5) ♦ CHEM 142 General Chemistry (5) CHEM 152 General Chemistry (5)	Economics <i>Topic requirement</i> ECON 200 or 201 (5) or IND E 250 (4) (ECON 200 or 201 concurrently satisfies I&S requirements. IND E 250 concurrently satisfies Engineering Fundamentals elective.)
Engineering Fundamentals 20 cr ♦ AMATH 301 Beg Scientific Computing (4) or CSE 142 Computer Programming I (4) ♦ AA 210 Statics (4) ♦ CEE 220 Mechanics of Materials (4) ♦ ME 230 Kinematics & Dynamics (4) <i>One course from: ME 123, MSE 170, EE 215,</i> <i>IND E 250, AA 260, IND E 280, or</i> <i>IND E 315*.</i>	Diversity Credits 3 cr Credits may concurrently satisfy General Education or major requirements.
	Individuals & Society (I&S) 10 cr I&S electives selected from University list.
	Visual, Literary, Perf Arts (VLPA) 10 cr VLPA electives selected from University list. (ME 123 concurrently satisfies VLPA as well as Engineering Fundamentals elective.)
	Additional VLPA or I&S 4 cr

*Note: IND E 315 (Statistics & Probability for Engineers) may be used to satisfy the Mathematics **or** the Engineering Fundamentals requirement, but not both.

For students who take IND E 315, an upper-division Math course, (e.g., MATH 309, MATH 324) may be applied as Engineering Fundamentals Elective.

General Electives

To bring the balance of credits up to the minimum 180 credits required for a bachelor's degree.

◦ The BSCE degree does *not* have a foreign language graduation requirement.

† Other writing courses may be petitioned for use in place of ENGR 231, given its limited availability.

Degree Requirements and Sample Schedule

UPPER-DIVISION COUREWORK

CEE juniors typically take the 300-level CEE courses in one year, assigned to Track I or II. The senior year allows students flexibility to explore areas of their interest in greater depth by selecting core courses for the Technical Electives and choice of electives for Upper-Division Engineering and Science requirements. Faculty mentors will assist students in selecting 400-level CEE courses which will be appropriate for the student's academic and professional goals. (See "Senior Year Planning" page 8, and "Academic Timeline" page 32.) All students take CEE 440 Professional Practice in winter quarter and the capstone design course in the area of their interest in spring quarter.

CEE Junior Year 40 cr

The following new 300-level courses will be effective Autumn 2012.

- CEE 307 Construction Engineering (5)
- CEE 317 GeoSurveying (5)
- CEE 327 Transportation Engineering (5)
- CEE 337 Construction Materials (5)
- CEE 347 Introduction to Fluid Mechanics (5)
- CEE 357 Environmental Engineering (5)
- CEE 367 Geotechnical Engineering (5)
- CEE 377 Introduction to Structural Design (5)

Strongly recommended/Required for those interested in structures in spring quarter :

- CEE 456 Structural Analysis (5)

CEE Senior Year Courses:

Professional Practice and Capstone 7 cr

- CEE 440 Professional Practice (2)
- Capstone Design Course (5) (Minimum. 2.0 grade required.) Choose one:
 - CEE 441 Transportation & Construction Capstone
 - CEE 442 Structural Geotechnical Capstone
 - CEE 444 Water Resources/Hydraulics Capstone
 - CEE 445 Environmental Engineering Capstone

Technical Electives 15 cr

Students must take 15 credits from the Technical Elective course list (page 10), including at least one core course from three of the six different areas. (Minimum. 2.0 grade is required for each course used to satisfy a "core course" requirement.)

Upper-Division Engineering and Science 12 cr

Take any additional 400-level CEE courses (not applied elsewhere) and approved courses from outside the department. See Upper-Division Engineering and Science Electives course list (available on CE Web site).

Sample 4-year Plan

Students: Enter your schedule on MyPlan, accessible via MyUW.

Sample Freshman Year

Autumn		Winter		Spring	
MATH 124	5	MATH 125	5	MATH 126	5
CHEM 142	5	CHEM 152	5	PHYS 121	5
ENGL Comp	5	VLPA or I&S	5	VLPA or I&S	5
		CEE 100	1		
Total	15	Total	16	Total	15

Sample Sophomore Year

Autumn		Winter		Spring	
MATH 308	3	MATH 307	3	IND E 315	3
PHY 122	5	PHYS 123	5	AMATH 301	4
AA 210	4	CEE 220	4	ME 230	4
INDE 250 (or ECON 200)	4	ENGR 231	3	VLPA or I&S	4
Total	16	Total	15	Total	15

Sample CEE Junior Year (Students take Track I or II)

Autumn		Winter		Spring	
<i>Track I</i>					
CEE 317	5	CEE 307	5	CEE 327	5
CEE 337	5	CEE 347	5	CEE 367	5
CEE 377	5	CEE 357	5	CEE 456, 4XX, or	5
				grad requirement or other elective	
Total	15	Total	15	Total	15
<i>Track II</i>					
CEE 307	5	CEE 327	5	CEE 337	5
CEE 317	5	CEE 367	5	CEE 357	5
CEE 347	5	CEE 377	5	CEE 456, 4XX, or	5
				grad requirement or other elective	
Total	15	Total	15	Total	15

Sample CEE Senior Year

Autumn		Winter		Spring	
Tech Elective	3	CEE 440	2	Capstone	5
Tech Elective	3	Tech Elective	3	Tech Elective	3
Tech Elective	3	UD Elective	3	UD Electives	3
UD Elective	3	UD Elective	3	Elective	3
Additional credits as desired or needed.					

Senior Year Course Work: Technical and Upper-Division Electives

Students should meet with faculty mentors in April of their junior year to make appropriate course selections for their senior year based their areas of interest and future goals. Students will enter their senior year plan on MyPlan (accessible via MyUW), have the faculty member sign a printed copy of the MyPlan, and submit the signed copy to the CEE Advising Office (More Hall 201). This will serve as your graduation plan.

Students are advised to consider which capstone course may be of interest to them (see opposing page), and be sure to plan for appropriate prerequisite courses when planning the senior year.

Technical Electives credits taken in excess of the 15 credits will automatically apply toward Upper-Division Electives. Students may also count up to 3 credits of CEE 499 (Indpt Study/Research) and 6 credits of CEE 498 (Special Topics) as well as approved outside department courses towards the Upper-Division Electives.

Technical Electives — “Core Courses”

Take at least 15 credits from the Technical Electives List, with at least one course from three of the six areas. (Technical Electives Core Course List).

The *three core courses* must be completed with a minimum grade of 2.0.

The non-core Technical Electives courses may be completed with a minimum grade of 1.0 to satisfy degree requirements.

Upper-Division Engineering and Science Electives

Any 400-level CEE course and/or approved courses from outside departments. For list of pre-approved outside-department courses, see list available on the CEE Student Resources website.

Students may also submit a petition to the Undergraduate Committee to have a course not on the list to be considered as an Upper-Division (UD) Engineering and Science Elective.

The minimum grade for upper-division electives is 1.0.

TECHNICAL ELECTIVES: CORE COURSES LIST

Construction Core

- CEE 404 Infrastructure Construction (4)
- CEE 420 Engineering With Developing Communities (3)
- CEE 421 Pavement Design (3)
- CEE 422 Energy and Transportation (3)
- CEE 429 Sustainability in Building Infrastructure (3)

Transportation Core

- CEE 410 Traffic Engr Fundamentals (3)
- CEE 412 Trans Data Mgmt (3)
- CEE 416 Urban Trans Planning Design (3)

Geotechnical Core

- CEE 436 Foundation Design (3)
- CEE 437 Engineering Geology (3)

Structural core

- CEE 451 Design of Metal Structures (3)
- CEE 452 Design Reinforced Concrete Structures (3)
- CEE 453 Prestressed Concrete Design (3)
- CEE 454 Design Timber Structures (3)
- CEE 455 Structural Unit Masonry (3)
- CEE 456 Structural Analysis (5)
- CEE 457 Advanced Structures I (3)

Water Core

- CEE 473 Coastal Engineering (3)
- CEE 474 Hydraulics of Sediment Transp (3)
- CEE 475 Analysis Techniques for Groundwater Flow (3)
- CEE 476 Physical Hydrology (3)
- CEE 477 Open-Channel Engr (3)

Environmental Core

- CEE 462 Applied Limnology (3) NW
- CEE 480 Air-Quality Modeling (3)
- CEE 481 Hydraulic Design for Env'l Engr (3)
- CEE 482 Wastewater Treatment & Reuse (3)
- CEE 483 Drinking Water Treatment (3)
- CEE 484 Wastewater Mgmt & Reuse (3)
- CEE 488 Hazardous Wastes Engineering (3)
- CEE 490 Air-Pollution Control (4)
- CEE 491 Deterministic Systems (3)

Required in Senior Year: CEE 440 and a Capstone Course

CEE 440 and one capstone course are required in the senior year.

CEE 440 Professional Practice Studio (2) - *To be taken in Winter Quarter of senior year. Offered with CR/NC grading option.*

Fundamentals of integrated civil engineering design, professional services marketing, project management, team dynamics, total quality management, value engineering, professional liability, and applied ethics in engineering practice. Emphasis on written and oral communications and on ethical, social, and economic factors. Offered: W.
View course details in MyPlan: CEE 440

CAPSTONE DESIGN COURSES - *To be taken in Spring Quarter of senior year. The capstone course must be completed with a minimum grade of 2.0.*
Select one of following of 441, 442, 444, or 445.

In the capstone courses, students work in small groups as “consultants” to external groups with actual problems. Students apply the knowledge and skills acquired in the BSCE program to address the engineering problems and concerns that their “clients” face and make formal written and oral presentations.

CEE 441 Transportation and Construction Capstone Design Project (5)

Comprehensive design project focusing on planning, design, and construction of a transportation project such as highways, transit, and airports. Prerequisite: CEE 327; CEE 440; either CEE 404, CEE 410, CEE 412, CEE 416, CEE 421, CEE 424, or CEE 425. Offered: Sp.

CEE 442 Structural Geotechnical Capstone Design Project (5)

Comprehensive team design project focusing on structural and geotechnical engineering. Requires design drawings, written reports, and oral presentations interfacing with related fields such as aesthetics and architecture, mechanical systems, traffic, environmental planning. Prerequisite: CEE 440; either CEE 451 or CEE 452; one additional course from CEE 436, CEE 451, CEE 452, CEE 453, CEE 454, CEE 456, or CEE 457. Offered: Sp.

CEE 444 Water Resources and Hydraulic Engineering Capstone Design Project (5)

Opportunity to effect design solutions for projects or major project components in such representative areas as reservoirs and associated systems for flood control, water supply, irrigation, and hydroelectric power, surface water control systems, fisheries related projects, small harbors, and coastal engineering problems. Prerequisite: either CEE 345 or CEE 347; CEE 440; either CEE 475, CEE 476, CEE 482, CEE 483, or CEE 484. Offered: Sp.

CEE 445 Environmental Engineering Capstone Design Project (5)

Individual and group design studies addressing environmental engineering problems such as stormwater management, water and wastewater treatment facilities, and residual processing. Prepare proposals, engineering reports, and alternative evaluations; process equipment design, present reports on selected design problems. Prerequisite: either CEE 345 or CEE 347; CEE 440; either CEE 473, CEE 475, CEE 476, CEE 481, CEE 482, CEE 483, or CEE 484. Offered: Sp.

Recommended Coursework for CEE Majors

CEE 100
(1 credit, CR/NC)

All CEE majors are advised to take **CEE 100** Introduction to 21st Century CEE (1 cr) during their freshman or sophomore year. It is strongly recommended in the freshman year. A one-credit, CR/NC course, CEE 100 is designed to give students a broad overview of the various subfields of CEE and provide general background to foster success in the field. CEE 100 is offered in winter quarter only.

CEE 291
(2 credits, Online)

CEE 291 Introduction to AutoCad for Civil Engineers (2 cr) is a self-paced, online course that allows students to acquire basic skills in AutoCad, a commonly used software tool in civil engineering, and develop familiarity with engineering drafting and graphical communication. CEE 291 is offered each quarter and is open to all CEE majors. (Prerequisite: MATH 124)

*Interested in
Environmental
Engineering?*

Students who wish to study environmental engineering are encouraged to take, in their freshman or sophomore year, one or more of the following courses: **BIOL 180** General Biology (5), **CHEM 162** General Chemistry (5), **A A 260** Thermodynamics (4). Of these, BIOL 180 is most recommended.

*Upper-Division
Coursework:
General Civil
Engineering*

Civil Engineering is a broad field encompassing many diverse yet related topics. The practice of civil engineering requires proficiency in various areas, and civil engineers often find that their technical interests and opportunities change over the course of their careers. In view of the interdisciplinary nature of the field, students are encouraged to pursue a course of study which offers the breadth necessary for your future professional development. If you have a defined interest in one or more areas of civil engineering, you may want to select elective undergraduate courses which emphasize your interest or you may want to consider pursuing them in detail at the graduate level. In the following pages, you will find groupings of senior courses which we hope will aid you in your selection:

GENERAL CIVIL ENGINEERING

The general civil engineering course suggestions will give you a broad background in civil engineering at the undergraduate level. You may anticipate careers in consulting firms, or in local, state, or federal agencies. This choice of course work provides suitable background for general professional practice or for graduate study in any branch of civil engineering.

Required Course:

CEE 440 Professional Practice Studio (2)

Strongly Recommend Courses:

CEE 416 Urban Transportation Planning and Design (3)
CEE 421 Pavement Design (3)
CEE 451 Design of Metal Structures (3)
CEE 452 Design of Reinforced Concrete Structures (3)
CEE 436 Foundation Design (3)
CEE 481 Hydraulic Design for Environmental Engineering (3)
CEE 483 Wastewater Treatment and Reuse (3)

Recommended Courses:

CEE 404 Infrastructure Construction (4)
CEE 424 GIS for Civil Engineers (3)
CEE 476 Physical Hydrology (3)
CEE 477 Open Channel Engineering (3)
CEE 484 On-Site Water Disposal (3)

Suggested Courses:

CEE 410 Traffic Engineering Fundamentals (3)
CEE 425 Reinforced Concrete Construction (3)
CEE 454 Design of Timber Structures (3)
CEE 473 Coastal Engineering (3)

Recommended Coursework for Seniors

Construction
Engineering

FOR STUDENTS INTERESTED IN CONSTRUCTION ENGINEERING

Construction Engineering addresses construction of the built environment with special emphasis on sustainability. Professionally, “construction engineering” tends to describe jobs for construction contractors, as well as public/private owners and consultants that manage construction projects. Construction engineers are generally exposed to all civil engineering specialty areas in their daily work as well as scheduling, estimating, project controls, and business development. Employment can be with either large or small organizations and may address general or specialized construction. Examples of constructed facilities include buildings, highways, bridges, rail systems, energy infrastructure, dams, and airports. CEE majors are invited to take Construction Management (CM) courses; however, enrollment cannot always be guaranteed as CM majors have registration priority for CM courses.

This is a general guide. Please consult your faculty mentor for more information.

Required Course:

CEE 440 Professional Practice Studio (2)

Strongly Recommended Courses:

CEE 291 AutoCAD (2)
 CEE 404 Infrastructure Construction (4)
 CEE 410 Traffic Engineering Fundamentals (3)
 CEE 420 Engineering with Developing Communities (3)
 CEE 421 Pavement Design & Construction (4)
 CEE 422 Energy and Transportation (3)
 CEE 424 GIS for Civil Engineers (3)
 CEE 429 Sustainability in Building Infrastructure (3)
 CEE 441 Construction/Transportation Capstone (5)

Recommended Courses:

CEE 416 Urban Transportation Planning and Design (3)
 CEE 436 Foundation Design (3)
 CEE 451 Design of Metal Structures (3)
 CEE 452 Design of Reinforced Concrete Structures (3)
 CEE 454 Design of Timber Structures (3)
 CEE 477 Open Channel Engineering (3)
 CEE 480 Air-Quality Modeling (3)
 CM 331 Construction Estimating I (4)
 CM 332 Construction Equipment Management (3)
 CM 333 Construction Safety
 CM 411 Project Planning and Control (3)
 CM 415 Heavy Construction Practices (3)
 CM 420 Temporary Structures (3)
 CM 423 Construction Law (3)
 CM 428 Heavy Construction Techniques (3)
 CM 450 Construction Project Management (5)

*The annual
Construction
Management
(CM) Career Fair
will be held
November 1, 2016.*

*CEE students are
welcome to attend.*

Look for the new Construction Management (CM) Minor in the near future!

Proposed jointly by the CEE and CM Departments, the CM Minor, when approved, will be available only for CEE majors and designed for those interested in the construction industry. The CM minor will require 25 credits, of which up to 12 CM credits may be applied toward CEE Upper Division Engineering and Science Electives.

*To request add codes for CM courses, please contact the CM Department directly at
 206-543-6377 <http://cm.be.washington.edu>
 120 Architecture Building, Box 351610*

Recommended Coursework for Seniors

Geotechnical Engineering

FOR STUDENTS INTERESTED IN GEOTECHNICAL ENGINEERING

Geotechnical engineering involves the study of soil and rock as engineering materials. It is an interdisciplinary field, drawing on other disciplines such as geology, mechanics, hydrology, structural engineering, seismology, construction, and environmental engineering. Among other things, geotechnical engineers design foundations, and dams, evaluate landslides potential and earthquake hazards, and remediate contaminated sites. Geotechnical engineers work for small and large consulting firms, government agencies, and large design firms.

This is a general guide. Please consult your faculty mentor for more information.

Required:

CEE 440 Professional Practice Studio (2)

Strongly Recommended:

CEE 436 Foundation Design (3)
 CEE 442 Structural Geotechnical Capstone Design Project (5)
 CEE 452 Design of Reinforced Concrete Structures (3)

Recommended Courses:

CEE 421 Pavement Design (3)
 CEE 456 Structural Analysis
 CEE 451 Design of Metal Structures (3)
 CEE 475 Analysis Techniques for Groundwater Flow (3)

Suggested Courses:

CEE 457 Advanced Structures I (3)
 CEE 477 Open-Channel Engineering (3)
 CEE 482 Water and Wastewater Treatment (3)
 CEE 498* Special Topics: Geohazards (*New course number forthcoming)

Suggested Courses from Outside Departments:

STAT 390 Probability and Statistics for Engineers & Scientists (4)
 ESS 210 Physical Geology (5) NW
 ESS 326 Geomorphology (5)
See also other Earth & Space Science (ESS) courses.

Hint! Plan ahead for a graduate school if you wish to pursue a master's degree.

- If you are interested in pursuing an advanced degree, such as a master's or Ph.D., start planning and consulting with faculty mentors and advisors as early as your junior year.
- Employers in some areas of civil engineering prefer students with master's degrees for certain positions. Although not required, *geotechnical engineering, structural engineering, and other sub-areas often seek those with a master's degree for entry level positions.*

For more information:

- Attend a "Preparing for Graduate School Session" in spring quarter (of junior year).
- Visit CEE Graduate Programs Website: <http://www.ce.washington.edu/prospective/grads/index.html>
- See page 26 of Handbook "Preparing for Graduate School" and GRE information and talk to faculty and advisors.

Recommended Coursework for Seniors

FOR STUDENTS INTERESTED IN STRUCTURAL ENGINEERING

The Structures and Mechanics area of emphasis deals with the strength of structures and their response to physical loads. The discipline typically leads to jobs in consulting engineering (designing building structures, bridges, etc.) or in contracting (concerned with the process and fabrication and erection rather than design of the structure). Many students also go on to study structures and mechanics at the graduate level, perhaps specializing further into earthquake engineering, long-span structures, etc.

Structural
Engineering

This is a general guide. Please consult your faculty mentor for more information.

Required :

CEE 440 Professional Practice Studio (2)

Strongly Recommended:

CEE 436 Foundation Design (3)
 CEE 442 Structural Geotechnical Engineering Capstone Design Project (5)
 CEE 451 Design of Metal Structures (3)
 CEE 452 Design of Reinforced Concrete Structures (3)
 CEE 456 Structural Analysis (5) - **Essential for structural students!**
(Important — Take in Spring Quarter of Junior Year)
 CEE 457 Advanced Structures I (3)

Recommended Courses:

CEE 424 GIS for Civil Engineers
 CEE 453 Prestressed Concrete (3)
 CEE 454 Design of Timber Structures (3)
 CEE 455 Design of Masonry Structures (3)

Courses of Interest:

CEE 404 Infrastructure Construction (4)
 CEE 416 Urban Transportation Planning/Design (3)
 CEE 421 Pavement Design (3)
 CEE 437 Engineering Geology I (3)
 CEE 476 Physical Hydrology (3)
 CEE 477 Open-Channel Engineering (3)
 CEE 481 Hydraulic Design for Environmental Engineering (3)
 CEE 495 Design for Environment (3)

Hint! Plan ahead for a minor.

Minors are optional. Student *may* select to do a minor; many do not. If you wish to do a minor, plan ahead. A minor may be in any topic of your choice. Minors typically consist of about 25 credits, some of which may be allowed to also count toward your general education or major requirements.

For more information on minors, see:

- General Catalog www.washington.edu/students/genecat
- Minors Website www.washington.edu/uaa/gateway/advising/majors/minor.php

Recommended Coursework for Seniors

Hydrology & Hydrodynamics

FOR STUDENTS INTERESTED IN HYDROLOGY AND HYDRODYNAMICS

Hydrology, water resources, and environmental fluid mechanics engineering encompass the planning, design, and operation of water projects. The courses listed below present information in the fields of hydraulics and fluid mechanics, surface and groundwater hydrology, coastal engineering and the computer modeling of water resource systems. Graduates with a background in these areas find employment in both the private and public sectors. The courses also provide background for graduate study.

This is a general guide. Please consult your faculty mentor for more information.

Required:

CEE 440 Professional Practice Studio (2)

Strongly Recommended:

CEE 444 Water Resources & Hydraulic Engr Capstone Design Project (5)

CEE 476 Physical Hydrology (3)

CEE 477 Open-Channel Engineering (3)

CEE 481 Hydraulic Design fro Environmental Engineering (3)

Recommended Courses:

CEE 436 Foundation Design (3)

CEE 437 Engineering Geology I (3)

CEE 472 Introduction to Hydraulics in Water Resources (3)

CEE 473 Coastal Engineering (3)

CEE 474 Hydraulics of Sediment Transport (3)

CEE 475 Analysis Techniques for Groundwater Flow (3)

CEE 491 Deterministic Systems (3)

Suggested Courses:

CEE 452 Design of Reinforced Concrete Structures (3)

CEE 492 Stochastic Systems (3)

Suggested Courses from Outside Departments:

ECON 435 Natural Resource Economics (prereq: ECON 200) (5)

ESS 426 Fluvial Geomorphology (5)

ESS 427 Hillslope Geomorphology (5)

Recommended Coursework for Seniors

FOR STUDENTS INTERESTED IN ENVIRONMENTAL ENGINEERING

If you choose to concentrate in environmental engineering you may wish to emphasize water or air-related courses. The courses below are intended to prepare you for employment with consulting firms, public agencies, and industries, and also to provide background for graduate study. Employment is available in many related fields of pollution control, public works, environmental engineering, solid waste and hazardous wastes engineering, and water and air quality management.

Environmental
Engineering

This is a general guide. Please consult your faculty mentor for more information.

Required:

CEE 440 Professional Practice Studio (2)

Strongly Recommended:

CEE 445 Environmental Engineering Capstone Design Project (5)
 CEE 481 Hydraulic Design for Environmental Engineering (3)
 CEE 482* Wastewater Treatment and Reuse (3), **or**
 CEE 484* On-Site Wastewater Treatment (3)
 CEE 483 Drinking Water Treatment (3)
 CEE 488 Hazardous Waste Engineering (3)
 CEE 490 Air Pollution Control (4)
 CEE 496 Fate and Transport of Chemicals in the Environment
 BIOL 180 General Biology (5)

** These courses are taught in alternating years*

Recommended Courses:

CEE 462 Applied Limnology and Pollutant Effects on Freshwater (3)
 CEE 476 Physical Hydrology (3)
 CEE 475 Analysis Technology for Groundwater Flow (3)
 CEE 474 Hydraulics of Sediment Transport (3)
 CEE 477 Open-Channel Engineering (3)
 CEE 480 Air Quality Modeling (3)
 CHEM 162 General Chemistry (5)
 A A 260 Thermodynamics

Currently Proposed: Bachelor of Science in Environmental Engineering (BS EnvE)

The CEE Department has proposed a new degree specifically for those interested in a much more focused study of environmental engineering. While the BS EnvE program is still under review by the University, those interested in the BS EnvE may write to ceadvice@uw.edu with your full name and email (UW email preferred) to be placed on an email list to receive updates. Approval is anticipated in the 2016-2017 academic year.

Interested students are advised to take AMATH 351 and AMATH 352, in place of MATH 308 and 307, respectively. In addition, they should take one or more of the following: BIOL 180 (most preferred), CHEM 162, and/or AA 260.

Recommended Coursework for Seniors

Transportation Engineering

FOR STUDENTS INTERESTED IN TRANSPORTATION ENGINEERING

The suggested courses provide a balanced offering of transportation engineering courses and can provide a basis for entering into professional practice or continuing on to graduate school. The courses listed below were selected with the recognition that knowledge of both transportation and construction topics are required to plan, design, and construct transportation facilities; therefore, we are emphasizing that a blended program be considered.

This is a general guide. Please consult your faculty mentor for more information.

Required Courses:

CEE 440 Professional Practice Studio (2)

Strongly Recommended Courses:

CEE 410 Traffic Engineering Fundamentals (3)

CEE 412 Transportation Data Management (3)

CEE 416 Urban Transportation Planning and Design (3)

CEE 441 Transportation and Construction Capstone (5)

Recommended Courses:

CEE 404 Infrastructure Construction (3)

CEE 421 Pavement Design (3)

CEE 424 GIS for Civil Engineers (3)

CEE 498 Special Topic: Traffic Simulations (3)

CEE 498 Special Topic: Geometric Design (3)

Did you know...?

Washington State Department of Transportation (WSDOT) annually hires a number of CEE students for paid internships at the Traffic Management Center in Shoreline. These are part-time positions during the academic year which often continue as full-time jobs in the summer. Interviews take place each year in early September on campus in More Hall. All CEE majors interested in transportation, except seniors, may sign up for an interview. Look for announcements in late August. County and municipal DOTs throughout the State also hire CEE interns. Various internship and research opportunities are possible. Please consult with transportation faculty.

Course Scheduling Resources

Here are some resources you may find helpful to plan out your academic schedule.

- **UW Time Schedule:** List course offering times, locations, and other details by quarter. www.washington.edu/students/timeschd/
Add quarter/year and department to make it specific to quarter and department, for example: www.washington.edu/students/timeschd/SPR2015/cee.html
- **Online Course Descriptions:** You can read course descriptions by clicking on the course title link or going directly to www.washington.edu/students/crscat/cee.html.
- **CEE Course Planning Resources:** This page provides the CEE Department's **Projected Course Offering** for current and next academic years (e.g. which classes are projected to be offered which quarter, taught by whom). In addition, it has our **Preliminary Time Schedules** for future quarters. This is our working drafts of the courses proposed to be offered in future quarters with proposed times and instructors. Please note that projected time schedules and course offering lists are available as they become available to the Department, so check back periodically if you do not see future quarter information. <http://www.ce.washington.edu/students/timeschedule.html>
- **MyPlan** and your **Degree Audit** —Use these to help you plan and to keep you on track. Available via MyUW.
- **General Education Course Search:** Looking for General Education Courses to satisfy requirements, such as VLPA, I&S, or Diversity? Check out the General Education Search at www.washington.edu/students/timeschd/genedinq.html
- **List of approved outside department courses to satisfy Upper-Division Engineering & Science Elective Requirement:** You can find the list of pre-approved outside department courses online at the CEE Website BSCE Degree requirements: www.ce.washington.edu/students/ugAcademics.html
- **BSCE forms and resources:** Looking for BSCE forms, such as those for Course Evaluation Requests, CEE 499 Request, Graduation Petition, etc? Go to the CEE Undergraduate Student Resources Page at www.ce.washington.edu/students/undergrad.html

Grades:

A minimum grade of 2.0 is required for all CEE prerequisite courses, Technical Elective Core courses, and the Capstone course. Courses used to satisfy BSCE degree *graduation* requirements (such as IND E 315, ENGR 231) must be completed with a minimum grade of 1.0.

Courses must be taken with a numerical grade or the Credit/No Credit (CR/NC) grading option to apply toward major, minor, or general education requirements. "S" credits earned under the Satisfactory/Non Satisfactory (S/NS) grading option may be used *only* for University general electives. [CR/NC and S/NS differ in that the former is the way the department offers the class for all students in the class, while S/NS is selected by the student as a way to have a pass-fail option.]

For complete information on grading, see http://www.washington.edu/students/genecat/front/Grading_Sys.html

Advising Resources

As a major, you generally do not need add codes to register for most CEE courses. You can simply register! If you need registration assistance or an add code, simply complete the online add codes request form at www.tinyurl.com/ceeaddcoderequest.

How to Register

CEE majors have priority registration for CEE courses during Period I. As a major, you typically do not need add codes to register for most CEE courses. You can simply register at your designated time provided that you have the prerequisites.

First quarter transfer students may not be coded or may not have all transfer courses evaluated in time for registration, so add codes may be necessary that quarter. If the UW system does not recognize a transfer prerequisite course (e.g. MATH 1XX), you will need an add code to register.

When an add code is required or you wish to be placed on a wait list for a closed CEE course, use the online request form at www.tinyurl.com/ceeaddcoderequest.

For non-CEE courses, please contact that department's advisor (not the CEE advisor) with registration questions. You can also sign up for automatic notification of space opening in a course of interest. See Tips for Getting into Closed/Restricted Classes for details:
www.washington.edu/uaa/advising/choosing-courses/tips-for-getting-into-closed-restricted-courses/

Meeting with a CEE Advisor

- **Drop-In Advising**

Drop-in advising times are available several times per week. These advising sessions are intended for short questions, typically taking no more than 15 minutes.

For drop in advising times, please refer to the Undergraduate Calendar:

www.ce.washington.edu/students/undergrad.html

- **Advising Appointments:**

Use the online appointment calendars to self-schedule appointments with CEE undergraduate advisors Brian Kinnear or Mariko Navin. You will find appointment calendar links on the CEE Student Resources Page.

Selecting Brian or Mariko's calendar link, you will need to sign in with your UW email or Gmail account. *(Please be sure that you Google calendar is set to Pacific Time.)* Select your desired time slot and enter your full name and UW ID number, and a brief reason for your visit. If you need different appointment times than those available or the self-scheduling tool does not work for you, please email ceadvice@uw.edu with your preferred times and days, and be sure to include your full name and UW ID number.

General Advising Questions? Email ceadvice@uw.edu.

Need a place to hang out in More Hall?

The Computer Lab - More hall 001 (Card key access)

ASCE Lounge - More Hall, Room 312 (Ask for the code)

CEE Student Lounge - More Hall, Room 219 (Ask for the code)

Advising Resources and More Help

Don't miss important news and updates! Three helpful resources

- **Undergraduate News Blog:** <http://blogs.uw.edu/ceadvice/>
The CEE Undergraduate News Blog is an essential resource for CEE majors. Here you will find everything from advising notices to job postings and internships. It is recommended that you subscribe to the blog so you can get the most up-to-date information
- **Undergraduate Advising Calendar:**
<http://www.ce.washington.edu/students/undergrad.html>. The CEE Undergraduate Advising Calendar will keep you updated on relevant events and important dates for CEE majors. You can add this calendar to your Google calendars by clicking the "Google Calendar" button at the bottom right of the calendar.
- **CEE Undergraduate Email list:** Be subscribed to civeugs@uw.edu (through UW Mailman)
We subscribe all new majors to the CEE undergraduate Majors email list (civeugs) using the UW email account. This list is used to post time-sensitive or important announcements to undergrad majors. Please read them! (You may unsubscribe yourself after you graduate. For information on how to unsubscribe, see the CEE Student Resources Page.

Computer Resources and Support

The CEE Department operates a student computer lab located in the basement of More Hall (Room 001). The lab is equipped with 75 state of the art computers as well as printers, scanners and a digital projector. The computers are loaded with an array of software ranging from common productivity applications to specialized engineering applications utilized by faculty for their classes and research. The complete list of software can be found at:
www.ce.washington.edu/students/software.html.

CEE students have all-hours access to the computer lab through use of their Husky Card. **However, students must register their Husky Card with Nick Burmeister in More 011, by the More 001 computer lab before their card allows access to the computer lab.** If you have any questions, please contact the CEE IT staff (Serhad Atakturk or Nick Burmeister) at help@ce.washington.edu for assistance.

University Computing Resources

All UW students are eligible to use Microsoft Office 365 ProPlus through the Microsoft Student Advantage program. Microsoft Office 365 ProPlus is an online distribution of Microsoft Office for PC, Mac, and iPad.:

<https://itconnect.uw.edu/wares/uware/microsoft/microsoft-office-365-proplus/>.

For additional software and/or questions on licensing, please see the university's online software store, UWare, at <https://itconnect.uw.edu/wares/uware/>.

For general help with UW computing services, write to the UW Technology Helpdesk at help@uw.edu or please visit www.washington.edu/itconnect/.

CEE Student Organizations

Listed below are some of the student organizations that may be of interest to CEE students. It is not intended to be a comprehensive list.

American Public Works Association (APWA)

APWA serves professionals in all aspects of public works—a fact that sets it apart from other organizations and makes it an effective voice of public works throughout North America. With a worldwide membership over 28,500 strong, APWA includes not only personnel from local, county, state/province, and federal agencies, but also private sector personnel.

www.apwa.net/

American Society of Civil Engineers (ASCE)

The UW student chapter represents the University of Washington in the American Society of Civil Engineers.

asce@uw.edu

<http://students.washington.edu/asce/>

American Water Resources Association (AWRA)

The UW Student Chapter of AWRA draws together students that are interested in water resources and related issues in a multidisciplinary forum for education, professional development and information exchange.

info@awra.org

<http://students.washington.edu/awra/>

www.awra.org/

American Water Works Association (AWWA) – Water Environment Federation Student Chapter

AWWA-WEF at UW aims to promote students' development in both the professional and academic realms of environmental engineering by fostering connections between students and the professional engineering and science community, as well as by organizing fun and interesting activities within Seattle and the Puget Sound region.

awwawef@uw.edu

www.facebook.com/pages/University-of-Washington-AWWA-WEF/177793188938647

Chi Epsilon (XE)

Chi Epsilon is the National Civil Engineering Honor Society in the United States. We honor engineering students who have exemplified the principles of "Scholarship, Character, Practicality, and Sociability" in the civil engineering profession.

www.chi-epsilon.org/xewebgeneral2/

Concrete Canoe Competition Team (ASCE Team)

This inter-collegiate challenge requires civil engineering students to design, fabricate and construct a concrete canoe based on competition specifications.

uwconcretecanoe@gmail.com

www.ce.washington.edu/students/concrete.html

Earthquake Engineering Research Institute (EERI)

EERI is a national, nonprofit, technical society of engineers, geoscientists, architects, planners, public officials, and social scientists.

www.eeri.org

Engineers without Borders (EWB)

Students work with disadvantaged communities worldwide to improve their quality of life through environmentally sustainable, equitable and economical engineering projects.

ewbuw.president@gmail.com

<http://students.washington.edu/ewbuw/>

CEE Student Organizations

Geo-technical Institute Graduate Student Society (GIGSS)

This is a group that is interested in the further understanding and involvement of those interested in Geo-technical Engineering.

gigss@u.washington.edu

Institute of Transportation Engineers (ITE)

The ITE Student Chapter at UW was created to promote the education and professional development of students interested in transportation engineering and planning.

ite@u.washington.edu

<http://students.washington.edu/ite/>

Pacific Northwest Clean Water Association

A non-profit technical and educational organization for water environment professionals, student and young professional committee.

www.pncwa.org/index.php?option=com_content&view=article&id=163&Itemid=147

Steel Bridge Competition Team (ASCE Team)

This inter-collegiate challenge requires civil engineering students to design, fabricate and construct a steel bridge model based on competition specifications.

uwsteelbridge@gmail.com

www.ce.washington.edu/students/steelBridge.html

Water Environment Federation (WEF)

WEF members, Member Associations, and staff proudly work to achieve our mission to provide bold leadership, champion innovation, connect water professionals, and leverage knowledge to support clean and safe water worldwide.

inquiry@wef.org

www.wef.org/

For additional listing of student organizations, visit the College of Engineering Student Clubs webpage (www.engr.washington.edu/current/studentprogs/orgs)

American Indian Science & Engineering Society (AISES)

aises@u.washington.edu

<http://students.washington.edu/aisesuw/>

National Society of Black Engineers (NSBE)

uwnsbe@u.washington.edu

<http://students.washington.edu/uwnsbe/>

Science & Engineering Business Association

<http://uwseba.com>

Society of Asian Scientists & Engineers

sase@uw.edu

<http://students.washington.edu/sase/>

Society of Hispanic Professional Engineers

shpe@uw.edu

<http://students.washington.edu/shpe/>

Society of Women Engineers

swe@uw.edu

<http://students.washington.edu/swe/>

Women in Science & Engineering (WiSE)

www.engr.washington.edu/current/studentprogs/wise

CEE Continuation Policy

The CEE Department has a Continuation Policy for Undergraduate Major (separate from the University's Low Scholarship Policy) to ensure that students make satisfactory progress in the major and progress to degree in a timely fashion. The Undergraduate advisor monitors the academic progress of all CEE majors on a quarterly basis for indications of academic difficulty and danger of low scholarship: grades below passing in CEE courses, a quarterly GPA lower than 2.0, a GPA of lower than 2.0 in CEE courses, and/or a cumulative GPA lower than 2.0.

Students flagged with these indicators are contacted to arrange a meeting with the CEE undergraduate advisor. If contacted, students should meet with the advisor promptly to discuss any problems they may be having and to develop a graduation plan. The meetings are intended to be intervention measures to provide timely support and attention.

Students who do not meet satisfactory progress in the first quarter in the CEE major are placed on Warn status. If the difficulties continue in the following quarter(s), the student may be placed on probation. If the student cannot demonstrate academic progress, the student will be dismissed from the CEE major (not the UW), with an opportunity to petition. Probationary status in the CEE Department is not recorded on the UW transcript.

For information on the University's Low Scholarship policy, see www.washington.edu/students/gencat/front/Low_Scholarship.html.

Let us know! If you are having difficulties in school or in your personal life which are affecting your academic performance, please let us know. We are here to help. CEE Advisors can help you explore different academic options and on- and off-campus resources to help you to deal with difficult periods. Our goal is to help you succeed in school and in your personal life.

Here are some campus resources which may be of help.

Student Counseling Center

www.washington.edu/counseling/

Hall Health Center

hallhealth.washington.edu/

Career Center

Careers.washington.edu

Disability Resources Office

<http://depts.washington.edu/uwdrs/>

Scholarships

Scholarships are available through the Department of Civil & Environmental Engineering, the College of Engineering, and a variety of industry and professional associations. In addition, the University's Office of Merit Scholarships, Fellowships, and Award assists students interested in highly competitive local, national, and international awards.

To apply for College of Engineering and engineering departmental scholarships, see the College of Engineering scholarship website at www.engr.washington.edu/curr_students/scholarships.html. The online engineering scholarship application is open three times a year for *College* awards.

The CEE Department accepts online scholarship applications once a year, from April 1 through May1. Must be a CEE student to apply for departmental award. *Write your personal statement for CEE scholarships to be specific to civil and environmental engineering.* (See "Hint" below.)

The CEE Department offers approximately 20-30 scholarships for new undergraduate majors each year in various amounts. Scholarships may be based on academic merit, financial need, and/or specific conditions (such as personal background or goals, or interests in a particular field or area within engineering).

To be eligible for need-based scholarships, you must submit the FAFSA (Free Application for Federal Student Aid) application. It is strongly recommended that you submit the FAFSA by February 15 for award the following academic year. If your personal or financial circumstances change from the past year, you can appeal for a reconsideration of your award allocation. For more information, go to the UW Student Financial Aid Office, or visit www.fafsa.gov.

HINTS!

- If you are applying for CEE scholarships, prepare your personal statement accordingly. Talk about your professional and academic goals, your engineering areas of interest, your internship, research, and/or service experiences.
- Do not regurgitate a personal statement previously used for CEE or UW admissions. If you have experienced difficulties or challenges that have affected your academic performance, please address them (but do not use the engineering scholarship application to simply reiterate a long history of personal hardships).

Other sources of scholarships:

College of Engineering Scholarships

http://www.engr.washington.edu/curr_students/scholarships.html

College of Engineering Emerging Leaders Scholarships

www.engr.washington.edu/curr_students/studentprogs/emergingleaders.html

UW Office of Merit Scholarships, Fellowships, and Awards

<http://expd.washington.edu/scholarships/omsfa/office-of-merit-scholarships-fellowships-awards.html>

Mary Gates Scholarships for Research & Leadership

<http://expd.washington.edu/mge/scholars/requirements.htm>

Washington State Opportunity Scholarships for STEM students

Waopportunityscholarship.org

Post-Graduation Planning

Engineering Licensing

Engineering Licensing: The FE Exam and the Engineer-In-Training (EIT) license

The first professional engineering license is called the EIT (Engineer-in-Training). The EIT status is conferred upon those who take and pass the Fundamentals of Engineering (FE) exam, which is administered by the NCEES (National Council of Examiners for Engineering and Surveying).

CEE majors may sit for the FE exam after completing the CEE junior year curriculum and have senior status. For most students, this is in the summer prior to or autumn quarter of their senior year. Professional licensing can help students in their job search by providing enhanced credibility and marketability, but it is not an academic requirement for the BSCE degree.

For more information and to register for FE/EIT, go to the Washington State Department of Licensing (DOL) website at www.dol.wa.gov/business/engineerslandsurveyors/engintraining.html. Students will then schedule the exam at the NCEES website: <http://ncees.org/exams/>

BSCE majors typically take the General Engineering and Civil tests of the FE exam. More information about the exam and a study guide are available on the NCEES website at www.ncees.org/Exams/FE_exam.php.

Nearly all of the undergraduate majors choose to take the FE Exam early in their senior year, and historically over 90% pass on their first attempt. (Most students say that the 300-level CEE curriculum was the best preparation for the text.) After four years of work experience as an EIT under the supervision of a PE (professional engineer), individuals may sit for the PE exam to become a fully licensed PE.

Preparation for Graduate School

Graduate School

If you are interested in continuing on to graduate school, start early to investigate your options and build a timeline of tasks towards your goal. Talk to your faculty mentor to get recommendations for graduate programs that would meet your needs and interests. Explore graduate school options through college websites, online resources, and networking, talking to people who have attended your schools of interest or degree method (for example, online programs). **Attend "Preparation for Graduate School" session offered by the CEE Department in spring quarter.**

Requirements, processes, and deadlines differ at each institution. Make sure you are well informed, and that you are meeting requirements, including prerequisites. As a rule of thumb, you should expect to start your preparation for graduate school approximately 9-12 months prior to the quarter you wish to matriculate. Most schools require standardized tests, such as the GRE (Graduate Records Examination), which are typically must be taken no later than mid-December for the results to be available by January. Application deadlines as early as January (for autumn admission) are not uncommon.

GRE

Most graduate programs will require that you take the Graduate Record Examination (GRE).

For more information about or to register for the GRE exam, go to www.gre.org. Various GRE preparation books are available in bookstores and libraries.

Employment

CEE Employment Opportunities

In addition to the various career fairs on campus, the **CEE Department offers its own career fair each year in January**. The CEE Career Fair is specifically geared towards connecting students and employers interested in civil and environmental engineering. This is an excellent opportunity to meet employers and to apply for career and internship positions.

Also look for **networking opportunities through various associations**, such as American Society of Civil Engineers (ASCE) and Women in Science and Engineering (WiSE), and regularly check the [CEE Undergraduate News Blog](#) for job and internship postings.

Career Center @ Engineering

For help with your resumes, job and internship search, interview techniques, and much more, visit **The Career Center @ Engineering** (014 Loew Hall, <https://www.engr.washington.edu/careercenter>).

Code of Ethics for Engineers

National Society of Professional Engineers (NSPE) Code of Ethics for Engineers

Preamble

Engineering is an important and learned profession. As members of this profession, engineers are expected to exhibit the highest standards of honesty and integrity. Engineering has a direct and vital impact on the quality of life for all people. Accordingly, the services provided by engineers require honesty, impartiality, fairness, and equity, and must be dedicated to the protection of the public health, safety, and welfare. Engineers must perform under a standard of professional behavior that requires adherence to the highest principles of ethical conduct.

I. Fundamental Canons

Engineers, in the fulfillment of their professional duties, shall:

- Hold paramount the safety, health, and welfare of the public.
- Perform services only in areas of their competence.
- Issue public statements only in an objective and truthful manner.
- Act for each employer or client as faithful agents or trustees.
- Avoid deceptive acts.
- Conduct themselves honorably, responsibly, ethically, and lawfully so as to enhance the honor, reputation, and usefulness of the profession.

For more information, see NSPE website: www.nspe.org/Ethics/CodeofEthics/index.html.

See also American Society of Civil Engineering (ASCE) Code of Ethics and Policies:
<http://content.asce.org/ethics/policies.html>.

UW College of Engineering Policy on Academic Misconduct

Cited from <http://www.engr.washington.edu/mycoe/am/ampolicy.html>

Academic misconduct or violation of Engineering Ethics is unacceptable in the practice of engineering. When you graduate and practice as an engineer, you will be subject to the Code of Ethics of Engineers. While preparing to be an engineer, you are subject to specific rules regarding academic misconduct.

What does academic misconduct encompass?

- Cheating on examinations
- Cheating on individual projects
- Fraud
- Theft or alteration of other people's work on academic materials for the purpose of improving one's own grades or acquiring academic credit

What can happen if I am found guilty of academic misconduct?

Students accused of academic misconduct will be referred for disciplinary action pursuant to the University of Washington Student Conduct Code. If found guilty, students are subject to sanctions which can include:

- Disciplinary Warning
- Restitution
- Probation
- Suspension
- Dismissal from the University

The College of Engineering (COE) expects all students to behave in a mature manner and to be responsible for their actions. The COE does not accept excuses for misconduct and will prosecute all allegations of misconduct according to the procedures outlined in the CoE Academic Misconduct Process.

What is Cheating?

Most academic misconduct falls under the definition of plagiarism (see below), but sometimes we refer to misconduct as cheating. The following is a list of several examples of cheating:

Examples of Cheating:

- Allowing another to prepare an assignment for you or preparing an assignment for another.
- Having another take an examination for you or taking an examination for another.
- Obtaining information about an examination or assignment that is not authorized by the instructor.
- Altering an answer to an examination after it has been turned in, whether it has been graded or not.
- Looking at another's paper during an examination or allowing another to look at your paper.
- Collaborating with another during examination or on an assignment where the work is to be done independently.
- Bringing materials or information to an examination that are not permitted by the instructor.

What is Plagiarism?

Plagiarism is taking someone else's work from any source, i.e., someone's ideas, writings, or inventions, and using it WITHOUT ACKNOWLEDGMENT. As long as you give credit to the originator of the material, you are not guilty of plagiarism. Merely enclosing statements or sentences in quotation marks is not sufficient; you must cite the source.

Examples of Plagiarism:

- Copying phrases, sentences, sections, paragraphs, or graphics from a source and not giving credit by citing the source.
- Turning in a paper from a previous class.
- Having another person write an assignment (for pay or for free) and putting your name on it.

UW College of Engineering Policy on Academic Misconduct

- Modifying or paraphrasing another's ideas or writings and submitting them as your own.
- Having someone make substantial editorial changes to your paper and submitting the final version as your own.
- Turning in someone else's solution to an exam or a question on an exam as your own.
- Sharing computer code in assignments for individual students; use of someone else's computer code in assignments for individual students; use of someone else's computer code without acknowledgement; use of someone else's computer code when it is prohibited by the instructor.

Examples that are *not* Plagiarism:

- Asking someone to read your assignment and suggest possible improvements, unless specifically forbidden by the instructor.
- Getting together with other students to discuss an assignment, unless specifically forbidden by the instructor.
- Asking your instructor for help with an assignment.
- Quoting extensively from another's work but giving credit.

Why is it so important?

Copying (or plagiarizing) someone's work, without giving due recognition, is regarded as the equivalent of **STEALING AND FRAUD**, especially in the Western world (USA, Canada, and Europe). It is highly probable that it will be detected, so do not do it under any circumstances. It could ruin your career.

How can I avoid Plagiarism?

ALWAYS make very clear reference to the source of the material you use and put the material taken in "quotation marks," no matter where you find it. This is perfectly acceptable and legitimate. **DO NOT** try to rewrite or change another person's work and pass it off as your own - this is very difficult to do and is easily detected.

When can I use other people's work?

You can always use published writings as long as you give a formal reference and acknowledgment of the source. If the information comes from a conversation with a professor or another student, give their name and recognition that it is their thought.

Again, **NEVER** take another person's writing or speech or message or Internet data and put it in your work without acknowledgment. It is important to always make sure in your career that everyone who makes a contribution gets credit, no matter how small their part has been!

If you have questions, please check with your instructor or TA.

What can happen if I commit Plagiarism?

At a **MINIMUM** the Professor will give you a very poor grade and may report the incident to the Associate Dean in the College of Engineering. You will then certainly receive a formal reprimand from the Dean, at a **MINIMUM**. Please refer to the Student Conduct Code of the Washington Administrative Code for a list of the possible sanctions that may be imposed.

It is foolish and completely unnecessary to plagiarize - **DO NOT DO IT!**

Questions about Cheating/Plagiarism

If you have any questions about the above process, please check with your instructor, TA, or departmental advising center.

UW College of Engineering Academic Misconduct Process

Cited from <http://www.engr.washington.edu/mycoe/am/amprocess.html>

The Associate Dean (AD) of Academic Affairs and the Council on Educational Policy (CEP) have agreed to this revised academic misconduct process. This process went into effect at the beginning of fall quarter, 2009.

Course instructors are encouraged to handle Academic Misconduct issues directly with the student (s) involved. The instructor shall present the student with the information that the instructor has that suggests the student committed Academic Misconduct. The instructor should then ask the student to provide an explanation. If the instructor still believes the student committed Academic Misconduct, the instructor should suggest a resolution (such as no credit for the portion of the work involving Academic Misconduct). This process will generally have one of two possible outcomes:

Outcome 1

1. The student concurs with the instructor's findings. The follow-up is:
2. The instructor sends documentation of the case to the AD see Report of Academic Misconduct – Agreed Settlement (formerly called Informal Process) (PDF).
3. The case is listed in the AD's database.
4. If the AD's records indicate that this is not a first offense, the case is referred to the Council on Educational Policy (see steps 2-8 in Outcome 2 below). Sanctions range from reprimand, probation, suspension to recommendation of dismissal.
5. The AD sends a letter to the student confirming the agreement with the instructor concerning penalty, explaining to the student that a record of the incident will be maintained and will be considered in case of future academic misconduct by the student.
6. A copy of the letter is sent to the Director, Community Standards & Student Conduct.

Outcome 2

The student denies the allegation, objects to the proposed resolution, or the instructor considers the violation sufficiently serious that the case should be referred to CEP. The follow-up is:

1. The instructor sends documentation of the case to the AD for Academic Affairs using the form Report of Academic Misconduct – Referral to CEP (formerly called Formal Process) (PDF).
2. The case is entered into the AD's database.
3. The AD sends the student a letter notifying him/her of the allegation and informing him/her that the Dean's representative will be in touch to set up a meeting to explain the adjudication process.
4. The AD informs the Chair of the Council on Educational Policy (CEP) of the case, and requests that a hearing panel be scheduled.
5. The Dean's representative meets with the student to explain the College-level adjudication process and provides the student with a copy of the evidence of apparent Academic Misconduct that has been supplied by the instructor.
6. The student meets with the CEP subcommittee to present his/her side of the case. The student can choose not to meet with the subcommittee if the student does not deny the allegation and does not object to the proposed resolution.
7. The CEP subcommittee sends a report of the hearing to the AD.
8. The AD reviews the CEP subcommittee's findings and sends a letter to the student and the instructor.

If the finding is to exonerate the student, the AD informs the student in writing that the allegation has been dropped. The AD notifies the instructor to issue the appropriate grade for the assignment or exam and the final grade for the course reflecting exoneration. All records relating to this matter are purged.

If the finding confirms academic misconduct, the letter will indicate the sanction, explain to the student that a record of the incident will be maintained and may be considered in case of future misconduct by the student, and explain the appeal process. A copy of the letter will be sent to the Director, Community Standards & Student Conduct.

If the student wishes to appeal the initial findings, he/she must do so in writing by indicating points of disagreement with the findings. The appeal letter should be sent to the appropriate disciplinary committee in care of Community Standards & Student Conduct, Box 352231, Seattle, WA 98195-2231.

Academic Timeline

SUMMER QUARTER

- **Newly Admitted Students:** Welcome! Register for CEE classes.
- **Continuing students:** Will you work, travel, or attend classes during summers quarter?
- **Juniors:** If you are planning to go to graduate school, prepare now. Register to take the GRE (August—November recommended).

AUTUMN QUARTER

- Late September: Autumn Quarter begins.

Seniors: Apply to graduate! You must apply for your degree at least two quarters in advance of the quarter in which you intend to graduate. Watch for CEE advisor's announcements for graduation application sessions to take place in October. Sign-up online and attend a session to complete your application for degree. *Students who have submitted the graduation (degree) application (at least 4 days before the first Friday of November) will have Graduating Senior Priority (GSP) registration for the following two quarters.*

- Late October: UW Science & Engineering Career Fair. Start your internship or post-graduation job search!
- Take the FE/EIT exam.
- Early November: Register for Winter Quarter. Students who have applied for graduation have GSP registration starting first Friday of November. Register promptly on your eligible date. Popular 400-level CEE courses fill up very quickly.
- November (Date TBA): Construction Management Career Fair, Gould Hall Court.
- December 10 & 12-16: Final Examination Dates

WINTER QUARTER

- Early January: Winter Quarter begins.
- January 10: Application deadline for the UW CEE master's program for autumn admission. Deadlines for other universities may be earlier or later.
- Late January: Annual CEE Career Fair. Don't miss this chance to meet employers! This is the peak on-campus recruitment period for soon-to-be graduates and summer interns. Apply now for post-graduation employment.
- Check your progress by running a fresh degree audit (DARS) via MyUW. Consult with the CEE advisor if you have any questions or concerns. Keep the advisor posted regarding courses taken or intended to be taken outside of the UW.
- Early February: Register for Spring Quarter. Students who have applied for graduation have Graduating Senior Priority (GSP) registration.
- March 11 & 13-17: Final Examination Dates

Academic Timeline

SPRING QUARTER

- Late March: Spring Quarter begins.
- **Juniors and continuing students:** Attend faculty mentoring sessions. (See box.)

Early April: Senior Year Planning with Faculty Mentors: Attend a senior-year planning session with faculty in your engineering interest area(s), or meet individually with a faculty mentor. This is an opportunity to learn more about your area of engineering interest and to plan for the future, including selecting appropriate courses for your senior year in preparation for autumn quarter registration, which begins in early May. Be prepared for your faculty mentoring sessions by having reviewed your degree audit and having given some thought to your interests and goals (e.g., career pursuits, graduate school, research opportunities, etc.)

Print a copy of your MyPlan (use the “print” button for a print-friendly version) and have a faculty mentor sign your this sheet and submit this to the CEE advising office (More Hall 201).

- **Apply for CEE scholarships April 1—May 1** (Use the online engineering application form.) Continuing undergraduate students only.
- **Juniors and continuing students: Graduating Seniors:** Register to attend Graduation ceremonies. For more information and to register to attend, visit the UW Commencement website at www.washington.edu/graduation/ and the CEE Graduation webpage at www.ce.washington.edu/students/graduation.html.
- Ensure that your contact information is up-to-date. Diplomas are mailed to your permanent address approximately two to three months after date of graduation.
- Complete Exit Survey. (This will be sent to you electronically.)
- June 3 & 5-9: Final Examination Dates

Did you know.... The Family Educational Rights and Privacy Act (FERPA) of 1974 protects the privacy of student education records. If you have authorized “release of directory information,” certain information (such as name, major, and email address) are available on the UW online Directory and we may be shared this with others, including employers and recruiters.

If a student has not authorized release of directory information, we may not release *any* information about that student to a third party (not even to acknowledge student status) without written consent. This applies to employers and recruiters, and even your parents.

Graduation Checklist

Are you set to graduate?

- Have you applied to graduate? This means that you have submitted an *application for your degree* with the CEE Advisor. You should apply for your degree two quarters in advance of your intended graduation quarter.
- You can verify that you have applied for your degree if you see the graduation quarter and year in the “Graduation Date” box at the top of your degree audit.
- Run a fresh degree audit each quarter to make sure that your requirements are completed or in-progress to be completed. If you notice any irregularities or areas of concern, contact the CEE advisor.
- Students who expect to complete their degrees through summer quarter may participate in graduation ceremonies in June. Summer graduates will have their diplomas dated as issued in August, not June.
- If attending UW Commencement and/or the CEE Departmental Graduation, look for announcements in spring quarter. UW Commencement requires registration and cap & gown. The CEE Graduation Celebration requires a separate RSVP on the CEE website. Cap and gown is recommended, but not required.
- Complete the CEE Graduates Survey, which will be sent to you via email around the time you graduate. This information is very important to the CEE Department and helps us to meet our ABET accreditation requirements.

Faculty Directory

NAME	TITLE	OFFICE	PHONE	EMAIL
CONSTRUCTION ENGINEERING				
Kaminsky, Jessica	Asst. Professor	More 121H	221-3058	jkaminsk@uw.edu
Kim, Amy	Asst. Professor	More 133B	685-0228	amyakim@uw.edu
Mahoney, Joe P.	Professor	More 133D	685-1760	jmahoney@uw.edu
Muench, Stephen T.	Assoc. Professor	More 133C	616-1259	stmuench@uw.edu
Reed, Dorothy A.	Professor	Wilcox 263	543-0351	reed@uw.edu
TRANSPORTATION ENGINEERING				
Bam, Xiegang "Jeff"	Assoc. Professor	More 121G	543-9655	banx@uw.edu
Boyle, Linda	Professor	MEB G5	616-0245	linda@uw.edu
Chen, Cynthia	Professor	More 133A	543-8974	qzchen@uw.edu
Goodchild, Anne V.	Assoc. Professor	More 121E	543-3747	annegood@uw.edu
MacKenzie, Donald	Asst. Professor	More 121B	685-7198	dwhm@uw.edu
McCormack, Edward D.	Rsch. Asst. Prof.	More 121C	543-3348	edm@uw.edu
Rutherford, G. Scott	Professor	More 121H	685-2481	scottrut@uw.edu
Wang, Yin Hai	Professor	More 121F	616-2696	yinhai@uw.edu
STRUCTURAL ENGINEERING				
Berman, Jeffrey W.	Assoc. Professor	More 214D	616-3530	jwberman@uw.edu
Calvi, Paolo	Asst. Professor	More 214E	Pending	pmc85@uw.edu
Eberhard, Marc O.	Professor	More 233A	543-4815	eberhard@uw.edu
Lehman, Dawn E.	Professor	More 214B	715-2108	delehman@uw.edu
Lowes, Laura N.	Assoc. Professor	More 233C	685-2563	lowes@uw.edu
Mackenzie, Peter	Rsch. Assoc. Prof.	More 121D	685-2611	pmackenz@uw.edu
Miller, Gregory R.	Professor & Chair	More 201C	543-0350	gmiller@uw.edu
Motley, Michael R.	Asst. Professor	More 233D	685-1709	mrmotley@uw.edu
Roeder, Charles W.	Professor	More 233B	543-6199	croeder@uw.edu
Stanton, John F.	Professor	More 214A	543-6057	stanton@uw.edu
Wiebe, Richard	Asst. Professor	More 214B	221-1476	rwiebe@uw.edu
GEOTECHNICAL ENGINEERING				
Arduino, Pedro	Professor	More 132I	543-6777	parduino@uw.edu
Kramer, Steven L.	Professor	More 132E	685-2642	kramer@uw.edu
Wartman, Joseph	Assoc. Professor	More 132F	685-4806	wartman@uw.edu
HYDROLOGY and HYDRODYNAMICS				
Butman, David*	Asst. Professor	Bloedel 264	685-0953	dbutman@uw.edu
Horner-Devine, Alexander	Assoc. Professor	Wilcox 163	685-3032	arhd@uw.edu
Hossain, Faisal	Assoc. Professor	Wilcox 167	616-9361	fhossain@uw.edu
Istanbulluoglu, Erkan	Assoc. Professor	Wilcox 164	543-7923	erkani@uw.edu
Jessup, Andrew T.	Professor	HND 275	685-2609	jessup@apl.washington.edu
Kumar, Nirminesh	Asst. Professor	<i>Pending</i>	<i>Pending</i>	<i>Pending</i>
Lundquist, Jessica D.	Assoc. Professor	Wilcox 165	685-7594	jdlund@uw.edu
Neumann, Rebecca*	Asst. Professor	Wilcox 168	221-2298	rbneum@uw.edu
Nijssen, Bart	Rsch. Assoc. Prof.	Wilson 111	616-0901	nijssen@uw.edu
Thomson, James	Assoc. Professor	APL/Wilcox 166	616-0858	jmt3rd@uw.edu

* Dual-area

Faculty Directory

NAME	TITLE	OFFICE	PHONE	EMAIL
ENVIRONMENTAL ENGINEERING				
Brett, Michael T.	Professor	More 301	616-3447	mtbrett@uw.edu
Butman, David*	Asst. Professor	Bloedel 264	685-0953	dbutman@uw.edu
Davidson, Seana K.	Rsch. Assoc. Prof.	Ben Hall 476	685-2626	skdavid@uw.edu
Dodd, Michael	Asst. Professor	More 305	685-7583	doddm@uw.edu
Gough, Heidi	Rsch. Asst. Prof.	More 306	221-0791	hgough@uw.edu
Kolodziej, Edward	Assoc. Professor	UWT/Wilcox 166	253-692-5659	koloj@uw.edu
Korshin, Gregory V.	Professor	More 307	543-2394	korshin@uw.edu
Larson, Timothy V.	Professor	Wilcox 269	543-6815	tlarson@uw.edu
Marshall, Julian	Professor	Wilcox 268	685-2591	jdmarsh@uw.edu
Neumann, Rebecca*	Asst. Professor	Wilcox 168	221-2298	rbneum@uw.edu
Stahl, David A.	Professor	More 302	685-3464	dastahl@uw.edu
Strand, Stuart E.	Rsch. Professor	Ben Hall 490	543-5350	sstrand@uw.edu
Winkler, Mari	Asst. Professor	More 306 & Ben 476B	685-3493	mwinkler@uw.edu

* Dual-area

Staff Directory

NAME	TITLE	OFFICE	PHONE	EMAIL
Student & Academic Services				
Navin, Mariko	Academic Counselor, Lead	More 201G	543-5092	mnavin@uw.edu
Kinncar, Brian	Undergraduate advisor	More 201A	221-2181	kinncar@uw.edu
Latal, Lorna	Graduate Advisor (Ph.D, Research)	More 201F	543-2574	llatal@uw.edu
Pritchard, Melissa	Graduate Advisor	More 201	543-2574	chaelan@uw.edu
Ross, Jennifer	Graduate Advisor (coursework only masters)	More 201J	616-1891	jenross1@uw.edu
Cole, Dayna	Construction Engr & Sustainable Transportation (online masters)	Wilson 103	685-2312	dmcole@uw.edu
Reardon, Megan	SCTL (online masters)	More 121	221-6407	mreardon@uw.edu
Yasui, Haeda	Time Schedule and Curriculum Coordinator	More 201	616-1965	heathery@uw.edu
Departmental Administration				
Brauchli, Veronica	Assistant to the Chair	More 201B	543-8883	brauchli@uw.edu
Mehringner, Janice	CEE Office Admin Coordinator	More 201	685-0326	Jamehr@uw.edu
IT Staff				
Ataturk, Serhad	Senior Computer Specialist	More 128	685-6695	help@ce.washington.edu
Burmeister, Nicholas	Computer Support Tech	More 011	543-6314	help@ce.washington.edu
Payroll & Finance				
Ding, Ao	Budget / Fiscal Analyst	More 201E	616-5338	aoding@uw.edu
Samson, Josie	Fiscal Specialist	More 201A	543-2391	jsamson@uw.edu
Labs & Facilities Staff				
Yeung, J. Sean	Facilities manager	More 324D	543-2547	jsean@uw.edu
Liu, Yiming	Instructional Tech	More 129	543-4064	yiming@uw.edu
Chaijaroen, Vince	Structures Lab Manager	More 033	543-7433	vchaijar@uw.edu

W **CIVIL & ENVIRONMENTAL ENGINEERING**
UNIVERSITY *of* WASHINGTON

201 More Hall, Box 352700
206-543-5092
ceadvice@uw.edu
www.ce.washington.edu
