Name:	
Student #:	
Qtr/Year Admitted:	
Faculty Advisor:	

	Signature	*Date*
Student:		
Faculty Advisor:		

Civil & Environmental Engineering

Thesis Master's Program Plan (2016)

Structural Engineering and Mechanics

To do:

- Meet with your faculty advisor and have your program plan approved.
- Turn in your approved Program Plan to the Graduate Advising Office, 201 More Hall, by the end of your 1st quarter.
- Update your Program Plan as needed, obtaining approval by your faculty advisor and turn it into the Advising Office.

Course Plan ***Audit***

Fill in the section below with planned courses to meet degree requirements.					**Check the column below indicating which degree requirement the course fulfills.** ☑			
Course #	**Course Title**	**Qtr/Year (e.g. Aut16)**	**CR**		**Required structures courses**	**12 credits 500-level structures courses**	**6 credits approved electives**	**Seminar (3 CR total)**
		Total CR						
Thesis credits do not need to be entered on this form. (Min. 9 CR)		**Required**	**42**		**12 CR**	**12 CR**	**6 CR**	**3 CR**

Revised: October 11, 2016

Degree Requirements

Credit Requirements:

30 credits of course work
3 credits of CEE 500 Seminar
9 credits of CEE 700, Master's Thesis
42 Credits Total

Required Coursework:

☐ CEE 501 Structural Mechanics, 6 CR (AUT)

☐ CEE 502 Structural Dynamics, 3 CR (WIN)

One of the following (both are strongly recommended—if both are taken, 1 can count toward 12 credits of SEM Electives)

☐ CEE 504 Finite Element Methods in Structural Mechanics, 3 CR (SPR)

☐ CEE 599 Advanced Structures I, 3 CR (WIN) (*Note: The CEE 457 section of this class does not count)*

☐ 12 credits of 500-level structures courses from the list of Structural Engineering and Mechanics (SEM) Electives, page 3

☐ 3 credits of CEE 500 Structures Seminar

- Autumn: Student presentations
- Winter: Seminars on professional practice
- Spring: Research seminars and discussion

1 credit of CEE 500 Department Seminar may substitute for 1 credit of CEE 500 Structures Seminar (the seminar series must be attended during autumn, winter and spring quarters in order to receive a grade)

☐ 6 credits of additional coursework to be fulfilled as follows:

- Any 500-level structural engineering and mechanics (SEM) course
- Any courses from the CEE Electives list on page 3
- Any AA, ME, MSE, AMATH courses listed on pages 3 - 4
- One ARCH or CM course listed on page 4 (more than one is allowed only with prior approval by faculty advisor and the SEM graduate advisor)

Additional Requirements:

☐ Minimum 3 credits outside structures (can be CEE)

☐ All CEE courses (except seminars) taken for a numeric grade (others may be S/NS)

☐ Maximum 6 credits of *approved* transfer credits

☐ 3.0 minimum cumulative GPA in all structures courses

☐ 3.0 minimum cumulative GPA

☐ 2.7 minimum grade for a class to count

☐ 499 credits do not count toward a graduate degree

☐ Classes 300-level or below do not count toward a graduate degree

ELECTIVES

The following course offerings are subject to change. For CEE course offerings, please refer to the CEE Projected Course Offerings 2016-2017, and the Preliminary Time Schedule which can be found on the CEE Department website at: *http://www.ce.washington.edu/students/timeschedule.html*. Refer to the UW Time Schedule when it becomes available for up-to-date information.

For courses outside the CEE Department, refer to the UW Time Schedule or the offering department for course offering details.

500-level Structural Engineering and Mechanics (SEM) Electives

- ☐ CEE 503 Materials Modeling, 3 CR (SUM)
- ☐ CEE 505 Engineering Computing, 3 CR (AUT)
- ☐ CEE 506 Nonlinear Analysis of Structural Sys, 3 CR (SPR)
- ☐ CEE 507 Structural Stability, 3 CR (WIN)
- ☐ CEE 511 Advanced Reinforced Concrete, 3 CR (AUT)
- ☐ CEE 512 Advanced Structural Systems, 3 CR (SPR)
- ☐ CEE 513 Advanced Steel I, 3 CR (WIN)
- ☐ CEE 515 Earthquake Engineering I, 3 CR (SPR)
- ☐ CEE 516 Earthquake Engineering II, 3 CR (AUT)
- ☐ CEE 517 Wind Engineering Design, 3 CR (SUM)
- ☐ CEE 518 Reliability and Design, 3 CR (AUT)
- ☐ CEE 599 Prestressed Concrete Design, 3 CR (WIN)
- ☐ CEE 599 Advanced Structures I, 3 CR (WIN)
- ☐ CEE 599 Advanced Steel II, 3 CR (SUM)

CEE 599 Math Foundation of Continuum Mech, 3 CR *(not offered 2016-2017)*

To meet the requirement of 15 credits of additional coursework, students may take courses from the SEM list above, or from the following list of *approved electives* (including CEE, AA, ME, MSE and AMATH).

CEE Electives

- ☐ CEE 404 Infrastructure Const, 3 CR (WIN)
- ☐ CEE 588 Energy and the Environment, 3 CR (AUT)
- ☐ CEE 599 Geotechnical Earthquake Eng, 4 CR (SPR)

College of Engineering Electives

- ☐ AA 532 Mechanics of Composite Materials, 3 CR
- ☐ AA 538 Intro to Structural Optimization, 3 CR
- ☐ AA 543 Computational Fluid Dynamics, 3 CR
- ☐ ME 415 Sustainability and Design for the Environ, 3 CR
- ☐ ME 515 Life Cycle Assessment, 3 CR
- ☐ ME 541 Fatigue of Materials, 3 CR
- ☐ ME 551, 552 Elasticity I, II, 3 CR
- ☐ ME 556 Experimental Stress Analysis I, 3 CR
- ☐ ME 557 Experimental Stress Analysis II, 3 CR
- ☐ ME 559 Introduction to Fracture Mechanics, 3 CR
- ☐ ME 564, 565 Mechanical Eng Analysis I, II, 3 CR
- ☐ MSE 431 Failure Anal and Durability of Matls, 3 CR
- ☐ MSE 462 Mechanical Behavior of Materials II, 4 CR
- ☐ MSE 475 Introduction to Composite Materials, 4 CR

ELECTIVES (continued)

College of Arts and Sciences Electives

- ☐ AMATH 503 Methods for Partial Diff Equations, 5 CR
- ☐ AMATH 506 Applied Probability Statistics, 4 CR
- ☐ AMATH 515 Fundamentals of Optimization, 5 CR
- ☐ AMATH 516 Numerical Optimization, 3 CR
- ☐ AMATH 567 Applied Complex Analysis, 5 CR
- ☐ AMATH 568 Adv Methods for Ordinary Diff. Equations, 5 CR
- ☐ AMATH 569 Adv Methods for Partial Diff. Equations, 5 CR
- ☐ AMATH 572 Intro to Applied Stochastic Analysis, 5 CR
- ☐ AMATH 581, 582, 583 Sci Computing, 5 CR
- ☐ AMATH 584 Introductory Numerical Analysis, 5 CR
- ☐ AMATH 585 Num Analysis of Boundary Value, 5 CR
- ☐ AMATH 586 Num Analysis of Time Dependent Problems, 5 CR

To meet the requirement of 15 credits of additional coursework, students may take one elective from the list below. *More than one course is allowed only with prior approval by their faculty advisor and the SEM graduate advisor.*

College of the Built Environment Electives

- ☐ ARCH 521 Structural Planning and Design, 3 CR
- ☐ ARCH 537 Traditional Bldg Methods: New Adapt, 3 CR
- ☐ ARCH 538 Building Reuse Seminar, 3 CR
- ☐ ARCH 578 Case Studies in Contemporary Arch, 3 CR
- ☐ CM 404 (ARCH 404) Integrated Des/Bld Studio, 6 CR
- ☐ CM 450 Construction Project Management, 3 CR
- ☐ CM 500 (ARCH 574) Design and Construction Law, 3 CR
- ☐ CM 505 Advanced Integrated Computer Applications, 3 CR
- ☐ CM 510 Advanced Construction Technique, 3 CR
- ☐ CM 515 Innovative Project Mngmt Concepts, 3 CR
- ☐ CM 530 Project Economics and Risk Analysis, 3 CR
- ☐ CM 540 Sustainable Construction, 3 CR
- ☐ CM 560 Design-Building Project Management, 3 CR
- ☐ CM 580 Temporary Structures, 3 CR

Graduation Quarter Checklist

- ☐ Read Graduate School policies and procedures at: **http://grad.uw.edu/policies-procedures/masters-degree-policies/**
- ☐ Register for a minimum of 2 credits.
- ☐ Review Graduate School Dates and Deadlines: **http://grad.uw.edu/for-students-and-post-docs/dates-and-deadlines/**
- ☐ Submit *Master's Degree Request* by deadline at: **http://grad.uw.edu/for-students-and-post-docs/mygrad-program/**
- ☐ In conjunction with your committee, arrange for your master's defense and notify the Graduate Advisor of details, sending abstract at least one week before defense date. Deadline for defense is 5:00 PM the last day of the quarter (the last day of finals week).
- ☐ Read procedures regarding electronic thesis submission: **http://grad.uw.edu/for-students-and-post-docs/thesisdissertation/**
- ☐ Electronically submit your thesis and approval form through the ETD system by 11:59 pm the last day of the quarter.
- ☐ Submit the online **CEE Final Check-out form** and **CEE Exit Survey** prior to exiting the department. They are available at **http://www.ce.washington.edu/students/masters.html**