

CE SAM PROGRAM OF WORK (2018-2019 Catalog)
(Must fill this form out and submit it before 12 hours of course work is completed.)

Student Name: _____ Date: _____
 Last First Middle

Address: _____ ID Number: _____

Degree Held and Fields: _____

Degree Sought: ME - Non-Thesis MS - Thesis Major: Structures and Applied Mechanics Engineering (SAM)

Subject Prefix	Course Number	Required Structures Core Courses (12 Hours Required)	Check if applying to degree.	Semester	Year 20__	Grade
CE	5303	Introduction to Finite Element		F Su Sp		
CE	5311	Advanced Steel Design I		F Su Sp		
CE	5312	Advanced Concrete Design I		F Su Sp		
CE	5315	Advanced Mechanics of Materials		F Su Sp		
CE	5698	Thesis (Only MS Students)				

Student must earn an average GPA of 3.0 or higher in their core courses. If final core course GPA is below a 3.0, student must pass a comprehensive exam over the Core Courses.

Note: No course used as a Required Core Course can be used for an Elective Course

Masters of Engineering Degree (ME) Elective Course Options

Eighteen (18) semester hours of **Elective Courses** are required. Course selection must result in a cohesive program that supports the major area. Course selection must result in a cohesive program that supports the degree plan.

Masters of Science Degree (MS) Elective Course Options

Twelve (12) semester hours of **Elective Courses** are required. Course selection must result in a cohesive program that supports the thesis must receive the approval of the student's supervising committee.

Thesis: Once the student is enrolled in the thesis course(s), continuous enrollment is required. The student must be enrolled in six (6) Hours of thesis during the semester the student finishes the thesis requirements and files for graduation.

FINAL DEGREE REQUIREMENTS vary depending upon a student's background and experience. Student's supervising committee establishes individual final degree requirements.

Elective Courses									
Elective Courses	Check if applying to degree	Semester	Year 20__	Grade	Elective Courses	Check if applying to Degree.	Semester	Year 20__	Grade
CE 5305 Fiber Reinforced Composite Design		F Su Sp			CE 5367 Design of Earth Structures		F Su Sp		
CE 5306 Structural Steel Design		F Su Sp			CE 5383 Experimental Stress Analysis		F Su Sp		
CE 5307 Structural Timber Design		F Su Sp			CE 5384 Concrete Bridge Design		F Su Sp		
CE 5308 Structural Masonry Design		F Su Sp			CE 5385 Structural Dynamics		F Su Sp		
CE 5309 Prestressed Concrete		F Su Sp			CE 5394 Earthquake Design of Reinforced Concrete		F Su Sp		
CE 5310 Plastic Analysis & Design of Structures		F Su Sp			CE 6350 Advanced Concrete Design II		F Su Sp		
CE 5314 Advanced Steel Design II		F Su Sp			CE 6352 Advanced Finite Element Method		F Su Sp		
CE 5316 Deterioration of Infrastructure		F Su Sp			CE 6355 Earthquake Engineering		F Su Sp		
CE 5320 Temporary Structures		F Su Sp			CE 6357 Structural Stability		F Su Sp		
CE 5343 Building Information Modeling		F Su Sp			CE 6358 Advanced Analysis in Mechanics		F Su Sp		
CE 5351 Advanced Structural Analysis I		F Su Sp			CE 6359 Plates and Shells		F Su Sp		
CE 5364 Foundation Analysis & Design		F Su Sp			CE 6360 Theory of Elasticity		F Su Sp		
Elective Courses Requiring Academic Advisor Approval									
CE 5191 Advanced Studies in Civil Engineering									

Admission Requirements	
Deficiency Courses	
Examination Requirement(s)	
Language Requirements(s)	
List any other Requirements(s) by the Committee	

APPROVALS AND DATES (Signatures Required)

Student: _____ Date: _____
 Academic Advisor: _____ Date: _____
 Graduate Advisor/Chair: _____ Date: _____

2018-2019 CE SAM Course and Prerequisite List

COURSE	PREREQUISITES
CORE COURSES (Take All)	
CE 5303 Introduction to Finite Element	CE 3341. Credit not granted for both CE 4325 and CE 5303.
CE 5311 Advanced Steel Design I	CE 4348 or CE 5306.
CE 5312 Advanced Concrete Design I	CE 4347. Credit not granted for both CE 4361 and CE 5312.
CE 5315 Advanced Mechanics of Materials	CE 2313. Credit not granted for both CE 4324 and CE 5315.
ELECTIVE COURSES	
CE 5305 Fiber Reinforced Composite Design	CE 3341. Credit not granted for both CE 4366 and CE 5305.
CE 5306 Structural Steel Design	CE 3341. Credit not granted for both CE 4348 and CE 5306.
CE 5307 Structural Timber Design	CE 3341. Credit not granted for both CE 4365 and CE 5307.
CE 5308 Structural Masonry Design	CE 3341. Credit not granted for both CE 4360 and CE 5308.
CE 5309 Prestressed Concrete	CE 4347. Credit not granted for both CE 4363 and CE 5309.
CE 5310 Plastic Analysis & Design of Structures	CE 4347 and CE 4348; or equivalent.
CE 5314 Advanced Steel Design II	CE 4348 or CE 5306.
CE 5316 Deterioration of Infrastructure	
CE 5320 Temporary Structures	CE 3341 and CE 3343.
CE 5343 Building Information Modeling	
CE 5351 Advanced Structural Analysis I	CE 3341. Credit will not be given for both CE 5351 and CE 4368.
CE 5364 Foundation Analysis & Design	CE 3343. Credit not granted for both CE 4321 and CE 5364.
CE 5367 Design of Earth Structures	CE 3343 or equivalent.
CE 5383 Experimental Stress Analysis	CE 2313.
CE 5384 Concrete Bridge Design	CE 4363 or CE 5309.
CE 5385 Structural Dynamics	CE 5303 or concurrent registration.
CE 5394 Earthquake Design of Reinforced Concrete.	CE 4347.
CE 6350 Advanced Concrete Design II	CE 5312.
CE 6352 Advanced Finite Element Method	
CE 6355 Earthquake Engineering	CE 5385.
CE 6357 Structural Stability	CE 5303 or concurrent registration therein.
CE 6358 Advanced Analysis in Mechanics	CE 5315 and MATH 3319.
CE 6359 Plates and Shells	
CE 6360 Theory of Elasticity	CE 5315.
Elective Courses Requiring Program Director or Academic Advisor Approval	
CE 5191 ADVANCED STUDIES IN CIVIL ENGINEERING	Consent of instructor
CE 5391 ADVANCED STUDIES IN CIVIL ENGINEERING	Consent of instructor
CE 5395 MASTER'S PROJECT.	Non-thesis. Consent of instructor and approval of Supervising Committee Chair.
CE 5695 MASTER'S PROJECT.	Non-thesis. Consent of instructor and approval of Supervising Committee Chair.
CE 5398 THESIS	Approval of Supervising Committee and Chair
CE 5698 THESIS	Approval of Supervising Committee and Chair