

CE-CEM PROGRAM OF WORK ADVISING (2018-2019 Catalog)
(Fill this form out and update each semester before enrolling in course work.)

Student Name: _____ Date: _____
 Last First Middle
 Address: _____ ID Number: _____

Degree Held and Fields: _____
 Degree Sought: ME - Non-Thesis MS - Thesis Major: Construction Engineering & Management (CEM)

Subject Prefix	Course Number	Required Construction Core Courses (12 Hours Required)	Check if applying to degree	Semester	Year 20__	Grade	Selection Priority
CE	5320	Temporary Structures		F	Su	Sp	Required Construction Core Course Take each course listed.
CE	5344	Construction Methods – Field Operations		F	Su	Sp	
CE	5350	Risk Management		F	Su	Sp	
CE	5327	Advanced Project Control		F	Su	Sp	Elective Construction Core Course Take only one of these courses.
CE	5343	Building Information Modeling		F	Su	Sp	
CE	5377	Construction Finance		F	Su	Sp	
CE	5698	Thesis (Only MS Students)		F	Su	Sp	

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: Courses used as a Required Core Course cannot be used for an Elective Course

Masters of Engineering Degree (ME) Elective Course Options

Eighteen (18) semester hours are required from ELECTIVES listed below: 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 course work must be taken ELECTIVE Courses listed below. Course selection must result in a cohesive program that supports the thesis and must receive the approval of the student's supervising committee.

Thesis: Six (6) semester hours of thesis must be enrolled in during the semester the student graduates, and in which the thesis is successfully defended. The thesis must be defended in a final oral examination open to all members of the faculty. Once enrolled in thesis courses, continuous enrollment is required.

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

Elective Courses (18 Hours Required for ME, 12 Hours Required for MS) (Courses used as core courses may not be used as Elective Courses.)							
Electives	Check if applying to Degree	Semester/Year 20__	Grade	Electives	Check if applying to Degree	Semester/Year 20__	Grade
CE 5306 Structural Steel Design		F Su Sp		CE 5355 Construction Materials		F Su Sp	
CE 5307 Structural Timber Design		F Su Sp		CE 5377 Construction Finance		F Su Sp	
CE 5308 Structural Masonry Design		F Su Sp		CE 5378 Const. Contracts, Specifications and Administration		F Su Sp	
CE 5309 Prestressed Concrete		F Su Sp		CE 5361 Design & Construction of Asphalt Concrete		F Su Sp	
CE 5327 Advanced Project Control		F Su Sp		CE 5362 Rigid pavements		F Su Sp	
CE 5336 Pavement Design		F Su Sp		CE 5364 Foundation Analysis and Design		F Su Sp	
CE 5338 System Evaluation		F Su Sp		CE 5382 Construction Sustainability		F Su Sp	
CE 5339 Construction Statistics		F Su Sp		CE 5387 Construction Productivity		F Su Sp	
CE 5340 Construction Project Acquisitions		F Su Sp		CE 5388 Pipeline Construction and Trenchless Technology		F Su Sp	
CE 5342 Construction Management		F Su Sp		CE 5389 Pipeline Asset Management & Sustainability		F Su Sp	
CE 5343 Building Information Modeling		F Su Sp					
CE 5345 Infrastructure Evaluation, Maintenance, & Rehabilitation		F Su Sp					
Elective Courses Requiring Program Director or Academic Advisor Approval							
CE 5191 Advanced Studies in Civil Engineering		F Su Sp					

Admission Requirements	Provisional: <input type="checkbox"/> Probation: <input type="checkbox"/>
Deficiency Courses	
Examination Requirement(s)	
Language Requirement(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-CEM Course and Prerequisite List

COURSE	PREREQUISITES:
CORE COURSES (TAKE ALL)	
CE 5320 TEMPORARY STRUCTURES	CE 3341 and CE 3343
CE 5344. CONSTRUCTION METHODS: FIELD OPERATIONS.	CE 4332 and CE 5344
CE 5350. RISK MANAGEMENT.	
CORE COURSES (TAKE ONLY ONE)	
CE 5327 ADVANCED PROJECT CONTROL	
CE 5343 BUILDING INFORMATION MODELING	
CE 5377 CONSTRUCTION FINANCE	
CONSTRUCTION ELECTIVES	
CE 5300 TOPICS IN CIVIL ENGINEERING	Consent of instructor and academic advisor.
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 5327 ADVANCED PROJECT CONTROL	
CE 5336 PAVEMENT DESIGN	CE 3302, CE 3261, and CE 3343.
CE 5338 SYSTEM EVALUATION	IE 2308 and CE 3301 or IE 3301 or equivalents, or consent of instructor.
CE 5339 CONSTRUCTION STATISTICS	CE 3301.
CE 5340 CONSTRUCTION PROJECT ACQUISITIONS	Consent of Instructor.
CE 5342 CONSTRUCTION MANAGEMENT	Credit not granted for both CE 4303 and CE 5342.
CE 5343 BUILDING INFORMATION MODELING (BIM)	
CE 5345 INFRASTRUCTURE EVALUATION, MAINTENANCE, AND REHABILITATION	Consent of instructor.
CE 5355 CONSTRUCTION MATERIALS	
CE 5361 DESIGN & CONSTRUCTION OF ASPHALT CONCRETE	CE 3261 or equivalent. - Credit not granted for both CE 4336 and CE 5361.
CE 5362 RIGID PAVEMENTS	CE 3261 or equivalent. - Credit not granted for both CE 4337 and CE 5362.
CE 5364 FOUNDATION ANALYSIS AND DESIGN	CE 3343 - Credit not granted for both CE 4321 and CE 5364.
CE 5377 CONSTRUCTION FINANCE	
CE 5378 CONST. CONTRACTS, SPECIFICATIONS AND ADMINISTRATION	Consent of instructor. Credit not granted for CE4304 and CE 5378.
CE 5382 CONSTRUCTION SUSTAINABILITY	Credit not granted for CE 4307 and CE 5382.
CE 5387 CONSTRUCTION PRODUCTIVITY	CE 5327.
CE 5388 PIPELINE CONSTRUCTION AND TRENCHLESS TECHNOLOGY	Graduate standing and consent of instructor. Credit not granted for both CE 4305 and CE 5388.
CE 5389 PIPELINE ASSET MANAGEMENT & SUSTAINABILITY	Graduate standing and consent of instructor. Credit not given for both CE 4305 and CE 5389.)
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.	Consent of instructor and approval of Civil Engineering Graduate Advisor.
CE 5695 MASTER'S PROJECT.	Consent of instructor and approval of Civil Engineering Graduate Advisor.
CE 5398 THESIS	Approval of Supervising Committee and Chair
CE 5698 THESIS	Approval of Supervising Committee and Chair