CE-INF PROGRAM OF WORK ADVISING (2018-2019 Catalog)

(This form must be filled out and submitted before 12 hours of course work is completed.)

Student N	lame:						Date:			
			Last	First	Middle					
Address:							ID. Number:			
Degree He	eld and Fiel	ds:								
Degree So	ought:	ME - Non-Thesis MS - Thesis		Major:	Infrastructure System Engineering and Management (INF)					
[Subject Prefix	Course Number		Required Construction Core Courses (12 Hours Required)		Check if applying to	Semester	Year 20	Grade	

TICIX	Number		degree	20	
CE	5345	Infrastructure Evaluation Maintenance & Renewal		F Su Sp	
CE	5380	Management of Infrastructure Assets		F Su Sp	
IE	5317	Intro to Statistics and Operations Research		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

Twenty-one (21) semester hours must be taken from the Elective Courses listed below. No more than nine (9) semester hours can be taken outside of Civil Engineering. Elective courses listed below are highly recommended but are not all inclusive. Course selection must result in a cohesive program that supports the degree plan.

Masters of Science Degree (MS) Elective Course Options

Fifteen (15) semester hours must be taken from the Elective Courses listed below. No more than nine (9) hours can be taken outside of Civil Engineering. Elective courses listed below are highly recommended but are not all inclusive. Course selection must result in a cohesive program that supports the degree plan and 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 degree requirements.

Elective Courses								
CE Elective Infrastructure Check if applying to degree		Semester/Year	Grade	CE Elective Construction Check if applying to degree		eck if egree	Semester/Year	Grade
CE 5336 Pavement Design			CE 5344 Construction Methods Field Oper	rations	J			
CE 5341 Pavement Eval., Rehab. 8	& Management.			CE 5377 Const. Project Management & Jo	ob Costing			
CE 5361 Design & Construction of	Asphalt Concrete			CE 5388 Pipeline Const. & Trenchless Tee	chnology			
CE 5362 Rigid Pavements			CE 5389 Pipeline Infrastructure Asset. Ma Sustainability	nagement &				
CE Elective Environnement	Semester/Year	Grade	CE Elective Structures & Applied Mechanics	Che applying to de	eck if egree	Semester/Year	Grade	
CE 5326 Water & Wastewater Trea	it. Facility Design			CE 5311 Advanced Steel Design I				
CE 5328 Fundamentals of Air Pollu	ition			CE 5312 Advanced Concrete Design I				
CE Elective Transportation	Semester/Year	Grade	CE Elective Water Resources	Che applying to de	eck if egree	Semester/Year	Grade	
CE 5331 Traffic Operations				CE 5354 Water Resources Planning				
CE 5332 Highway Design				CE 5356 Surface Water Quality Modeling				
CE 5335 Airport Engineering				Electives Outside	Che	eck if	SomostorNoar	Grado
CE 5338 System Evaluation				Civil Engineering	applying to degree		Semester/Tear	Grade
CE 6306 Public Transit Planning &	Operation			CIRP 5356 Intro to GIS Systems				
CE Elective Geotechnical	Somostor/Voor	Crada	IE 5301 Advanced Operations Research					
	Seriester/Tear	Graue	IE 5304 Advanced Engineering Economy					
CE 5364 Foundation Analysis and			IE 5311 Decision Analysis					
CE 5367 Design of Earth Structure			IE 5318 Advanced Engineering Statistics					
CE 5375 Geotechnical Aspects of Landfills				IE 5351 Intro to Systems Engineering				
CE 5376 Geosynthetics								
Elective Courses Requiring Academic Advisor Approval								
CE 5191 Advanced Studies in Civil								
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:

Graduate Advisor/Chair:

Date Date

2018-2019 CE–INF Course and Prerequisites List

COURSE	PREREQUISITES:				
CORE COURSES (TAKE ALL)					
CE 5345 Infrastructure Evaluation Maintenance & Renewal	Consent of instructor.				
CE 5380 Management of Infrastructure Assets	Consent of instructor.				
IE 5317 Intro to Statistics	MATH 2326 or equivalent and permission of advisor.				
CE Ele	ctive Infrastructure				
CE 5336 Pavement Design	CE 3302, CE 3261, and CE 3343.				
CE 5341 Pavement Evaluation. Réhabilitations and & Management.	CE 5336 or equivalent				
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 Elect	tive Environnemental				
CE 5326 Water & Wastewater Treat. Facility Design	CE 3131, CE 3142, and CE 3334. Credit not granted for both CE 4355 and CE 5326.				
CE 5328 Fundamentals of Air Pollution	Concurrent enrollment in CE 3334 or CE 5321 or consent of instructor. Credit not granted for both CE 4350 and CE 5328.				
CE Ele	ctive Transportation				
	CE 3302; and CE 3301 or concurrent registration therein. Credit will not be				
CE 5331 Traffic Engineering Operations	granted for both CE 4313 and CE 5331.				
CE 5332 Highway Design	CE 3302. Credit will not be granted for both CE 4312 and CE 5332.				
CE 5335 Airport Engineering	CE 3302				
CE 5338 System Evaluation	IE 2308 and CE 3301 or IE 3301 or equivalents, or consent of instructor.				
CE 6306 Public Transit Planning & Operation	CE 4311 or CE 5337 or equivalent.				
CE Ele	ective Geotechnical				
CE 5364 Foundation Analysis and Design	CE 3343. Credit not granted for both CE 4321 and CE 5364.				
CE 5367 Design of Earth Structures	CE 3343 or consent of instructor. Credit not granted for both CE 4320 and CE 5367				
CE 5375 Geotechnical Aspects of Landfills	CE 3343 or consent of instructor. Credit not granted for both CE 4323 and CE 5375				
CE 5376 GIS in Geotechnics	CE 3343 or consent of instructor				
CE 5570 GIS IN GEOLECHNICS CE 5543 OF CONSERVICION					
CE 5344 Construction Methods Field Operations	Credit not granted for CE 4332 and CE 5344				
CE 5377 Const. Project Management & Job Costing					
CE 5388 Pipeline Const. & Trenchless Technology	Graduate standing and consent of instructor. Credit not granted for both CE 4305 and CE 5388				
CE 5389 Pipeline Infrastructure. Asset. Management and	Graduate standing and consent of instructor. Credit not granted for both CE				
Sustainability. 4300 and CE Sasty.					
CE E211 Advanced Steel Design I					
CE 5311 Advanced Steel Design L	CE 4348 UI CE 3300. CE 4347 Cradit not granted for both CE 4341 and CE E312				
CE 5512 Auvaliceu Coliciele Designi	CE 4347. Cleuit noi gianteu foi politi CE 4301 anu CE 5312.				
CE E2E4 Water Desources Diapping	CE 2201 CE 2242 and IE 2200, or concent of instructor				
CE 5354 Water Resources Plaining					
CE 5550 Surface water Quality Modeling	CE 5540.				
CIDD 5256 Intro to CIS	Concent of instructor				
CIRP 3330 IIIII 0 10 GIS	CONSENT OF INSTRUCTOR				
IE 5301 IIIII 0 10 Operations Research	Craduate standing				
IE 5304 Auvaliceu Eligineering Economy	Giduude Staliuliy				
IE 5311 Decision Analysis	IE 5501 01 concurrent.				
IE 3310 Applieu Regiessiuli Alidiysis	Craduate standing, and permission of IMCE advisor				
	URING ACADEMIC ADVISOR APPROVAL				
CE 5191 ADVANCED STUDIES IN CIVIL ENGINEERING					
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				