

**CE-ENV PROGRAM OF WORK ADVISING (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:    Environmental Engineering (ENV)

Subject Prefix	Course Number	Required Core Courses (12 Hours Required)	Check if applying to degree	Semester 20__	Year	Grade
CE	5318	Physical-Chemical Processes I		F	Su Sp	
CE	5319	Physical-Chemical Processes II		F	Su Sp	
CE	5325	Biological Processes		F	Su Sp	
CE	5326	Water and Wastewater Treatment Facilities Design		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**

Twelve (12) semester hours of elective course work must be taken from **Elective Course Group A** below. Additional six (6) semester hours must be taken from **Elective Course Group B** below. Course selection must result in a cohesive program that supports the major area.

**Masters of Science Degree (MS) Elective Course Options**

Six (6) semester hours of elective course work must be taken from **Elective Course Group A**. Additional six (6) semester hours can be taken from **Elective Course Group A** or **Elective Course Group B**. **CE 5317** Environmental Engineering Processes and Analysis – Laboratory is highly recommended. 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 (**CE 5698**) 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 final degree requirements.

**Elective Courses**

Elective Course Group A		Check if applying To Degree	Semester 20__	Year	Grade	Elective Course Group B		Check if applying To Degree	Semester 20__	Year	Grade
CE 5317 Environ. Eng. Processes & Analysis-Laboratory			F	Su Sp		CE 4328 Water Systems Design			F	Su Sp	
CE 5322 Advanced Physical-Chemical Processes			F	Su Sp		CE 5346 Open Channel Flow			F	Su Sp	
CE 5328 Fundamentals of Air Pollution			F	Su Sp		CE 5347 Advanced Hydrology			F	Su Sp	
CE 5329 Environmental Risk Based Corrective Action			F	Su Sp		CE 5348 Groundwater Hydrology			F	Su Sp	
CE 5358 Solid & Hazardous Waste Management			F	Su Sp		CE 5349 Adv. GIS & Hydrologic/Hydraulic Modeling			F	Su Sp	
CE 5392 Special Topics in Air Pollution			F	Su Sp		CE 5353 Advanced Hydraulics			F	Su Sp	
CE 5393 Environmental Organic Chemistry			F	Su Sp		CE 5354 Water Resources Planning			F	Su Sp	
						CE 5356 Surface Water Quality Modeling			F	Su Sp	
						CE 5357 Hydrologic Techniques			F	Su Sp	
						CE 5359 Groundwater Contaminant Modeling			F	Su Sp	
						CE 5373 Environmental Geotechnology			F	Su Sp	
						CE 5375 Geotechnical Aspects of Landfills			F	Su Sp	
						EVSE 5320 Toxicology					
						EVSE 5455 Environmental Modeling			F	Su Sp	
						IE 5318 Applied Regression Analysis			F	Su Sp	
<b>Elective Courses Requiring Program Director or Academic Advisor Approval</b>											
CE 5191 Advanced Studies in Civil Engineering			F	Su Sp		CE 5395 Masters Project			F	Su Sp	
CE 5391 Advanced Studies in Civil Engineering			F	Su Sp		CE 5695 Masters Project			F	Su Sp	

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-ENV Course and Prerequisite List

COURSE	PREREQUISITE:
<b>CORE COURSES</b>	
CE 5318 PHYSICAL-CHEMICAL PROCESSES I	CE 3131 and CE 3334; or consent of instructor. Credit not granted for both CE 4351 and CE 5318.
CE 5319 PHYSICAL-CHEMICAL PROCESSES II	CE 3131 and CE 3334; or consent of instructor. Credit not granted for both CE 4353 and CE 5319.
CE 5325 BIOLOGICAL PROCESSES FOR WASTEWATER TREATMENT	CE 5318.
CE 5326 WATER AND WASTEWATER TREATMENT FACILITIES DESIGN	CE 3131, CE 3142, and CE 3334. Credit not granted for both CE 4355 and CE 5326.
<b>ELECTIVE COURSE GROUP A</b>	
CE 5317 ENVIRON. ENG. PROCESSES & ANALYSIS-LABORATORY	None.
CE 5322 ADVANCED PHYSICAL-CHEMICAL PROCESSES	CE 5318; or consent of instructor.
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 5321.
CE 5329 ENVIRONMENTAL RISK BASED CORRECTIVE ACTION	Consent of instructor.
CE 5358 SOLID & HAZARDOUS WASTE MANAGEMENT	CE 3334 or CE 5321; or consent of instructor. Credit not granted for both CE 4354 and CE 5358.
CE 5392 SPECIAL TOPICS IN AIR POLLUTION	
CE 5393 ENVIRONMENTAL ORGANIC CHEMISTRY.	CE 3334 or consent of instructor.
<b>ELECTIVE COURSE GROUP B</b>	
CE 4328 WATER SYSTEMS DESIGN	Grade of C or better in CE 3342.
CE 5346 OPEN CHANNEL FLOW	CE 3305 and CE 4328; or consent of instructor. Credit not granted for both CE 4358 and CE 5346.
CE 5347 ADVANCED HYDROLOGY	CE 3342 and CE 4328 or equivalent.
CE 5348 GROUNDWATER HYDROLOGY	CE 3342; or consent of instructor.
CE 5349 ADV. GIS & HYDROLOGIC/HYDRAULIC MODELING	None.
CE 5353 ADVANCED HYDRAULICS	CE 5346 and CE 5347; or consent of instructor. Credit will not be granted for both CE 4330 and CE 5353.
CE 5354 WATER RESOURCES PLANNING	CE 3301, CE 3342, and IE 2308; or consent of instructor.
CE 5356 SURFACE WATER QUALITY MODELING	CE 5346.
CE 5357 HYDROLOGIC TECHNIQUES	CE 5347; or consent of instructor.
CE 5359 GROUNDWATER CONTAMINANT MODELING	CE 5348.
CE 5373 ENVIRONMENTAL GEOTECHNOLOGY	CE 5371; or consent of instructor.
CE 5375 GEOTECHNICAL ASPECTS OF LANDFILLS	CE 3343; or consent of instructor. Credit not granted for both CE 4323 and CE 5375.
EVSE 5320 TOXICOLOGY	CHEM 2322 (CHEM 2321 with a grade of C or better).
EVSE 5455 ENVIRONMENTAL MODELING (4HRS)	Not found. Consult with instructor.
IE 5318 APPLIED REGRESSION ANALYSIS	IE 5317 or equivalent.
<b>ELECTIVE COURSES REQUIRING PROGRAM DIRECTOR OR ACADEMIC ADVISOR APPROVAL</b>	
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