

3) CEE 320: Environmental Engineering (3 cr.) or equivalent4) CS 302: Introduction to Programming (3 cr.) or equivalent

Department: Civil and Environmental Engineering			
Form: Proposed Pathway C, MS Program Plan for students without engine	ering Bachelor's deg	rees	
Name: Stud			
CEE Area of Study: Advis	sor:		
Master's Pathway (i.e., A. Thesis or B. Adv. Independent Study):			
Term and Year Admitted to Pathway C, M.S. Program:			
Previous Degrees (i.e., Degree(s) and Major(s)):			
Institution Attended:	Date Earned:		
**The exact number of deficiency courses and credits completed before ar	nd after admission wi	II be determined	d by the
faculty advisor. All pre-requisite courses must be taken for a letter grade.			
Deficiency Requirements for Pathway C, MS	Programs in CEE:		
No Graduate Credit Awarded for the Completic	on of These Courses		
Requirement	Term and Year	Institution	Grade
Math/Statistics Requirements			
Math 221: Calculus & Analytic Geometry (5 cr.) or equivalent			
Math 222: Calculus & Analytic Geometry (5 cr.) or equivalent			
Math 234: Calculus-Functions of Several Variables (3 cr.) or equivalent			
Math 319: Techniques in Ordinary Differential Equations (3 cr.) or			
equivalent			
Statistics 224: Introductory Statistics for Engineers (3 cr.) or equivalent			
Natural Sciences Requirements			
EMA 201: Statics (3 cr.) or equivalent			
EMA 202: Dynamics (3 cr.) or equivalent			
Physics 202: General Physics (5 cr.) or equivalent			
Chemistry Requirement			
Chemistry 109: Advanced General Chemistry (5 cr.) or equivalent			
Civil and Environmental Engineering Requirements (Area Specific)			
Environmental Engineering:			
1) CEE 310: Fluid Mechanics (3 cr.) or equivalent			
2) CEE 311: Hydroscience (3 cr.) or equivalent			
3) CEE 320: Environmental Engineering (3 cr.) or equivalent			
Geoengineering:			
1) CEE 330: Soil Mechanics (4 cr.) or equivalent			
Materials:			
1) CEE 395: Materials for Constructed Facilities (3 cr.) or equivalent			
Structural Engineering:			
1) EMA 303: Mechanics of Materials (3 cr.) or equivalent			
2) CEE 340: Structural Analysis (4 cr.) or equivalent			
3) CEE 395: Materials for Constructed Facilities (3 cr.) or equivalent			
Transportation Engineering / Geo-Spatial Information:			
1) CEE 370: Transportation Engineering (3 cr.) or equivalent			
Water Resources / Environmental Fluid Mechanics:			
1) CEE 310: Fluid Mechanics (3 cr.) or equivalent			
2) CEE 311: Hydroscience (3 cr.) or equivalent			

The courses entered into the following two tables comprise Pathway C, MS program within CEE. Students must complete a minimum of 30 graduate level credits (300 and higher) within CEE graduate-level credits. In addition to the 30-credit minimum requirement, students will meet with their faculty advisor to determine the courses and total credits required to fulfill the deficiency requirements.

CIVIL AND ENVIRONMENTAL ENGINEERING Minimum Degree Requirements and Satisfactory Progress CIVIL AND ENVIRONMENTAL ENGINEERING, M.S.

Deficiency Requirements for Pathway C, MS Programs in CEE:								
Graduate Credit Awarded for the Completion of These Courses								
Civil and Environmental Engineering Requirements	Term and	Institution	Credits	Grade	MS	CEE		
(Area Specific)	Year				Credits	Credits		
Construction Engineering and Management:								
1) CEE 491: Legal Aspects of Engineering (3 cr.) or								
equivalent								
2) CEE 492: Integrated Project Estimating and								
Scheduling (3 cr.) or equivalent								
3) CEE 498: Construction Project Management (3								
cr.) or equivalent								
Environmental Engineering:								
1) 3 cr. CEE Design Course:								
CEE 426: Design of Wastewater Treatment								
Plants (3 cr.), or								
CEE 427: Solid and Hazardous Waste								
Engineering (3 cr.), or								
CEE 428: Water Treatment Plant Design (3 cr.), or								
CEE 522: Hazardous Waste Management (3								
cr.), or equivalent								
Geoengineering:								
Geotechnics:								
1) CEE 310: Fluid Mechanics (3 cr.) or equivalent								
2) EMA 303: Mechanics of Materials (3 cr.) or								
equivalent								
Geoenvironmental:								
1) CEE 310: Fluid Mechanics (3 cr.) or equivalent								
2) CEE 320: Environmental Engineering (3 cr.) or								
equivalent								
Structural Engineering:								
1) CEE 330: Soil Mechanics (4 cr.) or equivalent								
2) CEE 445: Steel Structures (3 cr.) or equivalent								
3) CEE 447: Concrete Structures (3 cr.) or								
equivalent								
Transportation Engineering / Geo-Spatial								
Information:								
1) CEE 571: Urban Transportation Planning (3 cr.)								
2) CEE 573: Geometric Design of Transport								
Facilities (3 cr.)								
3) CEE 574: Traffic Control (3 cr.)4) CEE 579: Seminar-Transportation Engineering (1								
cr.)								
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Civil & Environmental Engineering: Master's Degree (M.S.) Requirements & Graduate Curriculum Form

• Pathway C: An option for students who do not have a bachelor's degree from an ABET-accredited engineering program or from a recognized international. In addition to the total deficiency credit requirement, Pathway C requires a minimum of 30 credits of graduate work. Students can select either a Thesis Option or Advanced Independent Study Option, consistent with the requirements of Pathway A or B described above, to complete the non-deficiency requirements of Pathway C. For example, a student with 10 credits of deficiency requirements will require a total of 40 credits to complete their degree, 10 deficiency credits and 30 graduate credits. Students should meet with their faculty advisor to determine which option is most appropriate for their degree plan. Deficiency credits cannot be applied to fulfill the 30-credit degree requirement. Selection of a program depends on the candidate's educational objectives.

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