



Department: Civil and Environmental Engineering

Form: Proposed 40 Credit MS Program Plan

Name: \_\_\_\_\_ Student ID #: \_\_\_\_\_

CEE Area of Study: \_\_\_\_\_ Advisor: \_\_\_\_\_

Master's Option (i.e., Thesis or Research/Independent Study): \_\_\_\_\_

Term and Year Admitted to the 40-Credit M.S. Program: \_\_\_\_\_

Previous Degrees (i.e., Degree(s) and Major(s)): \_\_\_\_\_

Institution Attended: \_\_\_\_\_ Date Earned: \_\_\_\_\_

Deficiency Requirements for 40 Credit MS Programs in CEE: No Graduate Credit Awarded for the Completion of These Courses			
Requirement	Term and Year	Institution	Grade
<b>Math/Statistics Requirements</b>			
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			
<b>Natural Sciences Requirements</b>			
EMA 201: Statics (3 cr.) or equivalent			
EMA 202: Dynamics (3 cr.) or equivalent			
Physics 202: General Physics (5 cr.) or equivalent			
<b>Chemistry Requirement</b>			
Chemistry 109: Advanced General Chemistry (5 cr.) or equivalent			
<b>Civil and Environmental Engineering Requirements (Area Specific)</b>			
<b>Environmental Engineering:</b>			
1) CEE 310: Fluid Mechanics (3 cr.) or equivalent			
2) CEE 311: Hydrosience (3 cr.) or equivalent			
3) CEE 320: Environmental Engineering (3 cr.) or equivalent			
<b>Geoengineering:</b>			
1) CEE 330: Soil Mechanics (4 cr.) or equivalent			
<b>Materials:</b>			
1) CEE 395: Materials for Constructed Facilities (3 cr.) or equivalent			
<b>Structural Engineering:</b>			
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			
<b>Transportation Engineering / Geo-Spatial Information:</b>			
1) CEE 370: Transportation Engineering (3 cr.) or equivalent			
<b>Water Resources / Environmental Fluid Mechanics:</b>			
1) CEE 310: Fluid Mechanics (3 cr.) or equivalent			
2) CEE 311: Hydrosience (3 cr.) or equivalent			
3) CEE 320: Environmental Engineering (3 cr.) or equivalent			
4) CS 302: Introduction to Programming (3 cr.) or equivalent			

The courses entered into the following two tables comprise the 40 Credit MS program within CEE. Students must complete a minimum of 30 credits within CEE and a minimum of 40 total graduate-level credits.

Deficiency Requirements for 40 Credit MS Programs in CEE: Graduate Credit <b>Awarded</b> for the Completion of These Courses						
<b>Civil and Environmental Engineering Requirements (Area Specific)</b>	<b>Term and Year</b>	<b>Institution</b>	<b>Credits</b>	<b>Grade</b>	<b>MS Credits</b>	<b>CEE Credits</b>
<b>Construction Engineering and Management:</b> 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						
<b>Environmental Engineering:</b> 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						
<b>Geoengineering:</b> 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						
<b>Structural Engineering:</b> 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						
<b>Transportation Engineering / Geo-Spatial Information:</b> 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.)						

