

Degree Curriculum
Civil and Coastal Engineering
Distance Master of Engineering Degree
General Civil Engineering

Year One

Fall Term

CGN6155 Construction Engineering I **3hrs. Advanced Construction Engineering management skills and procedures in support of design and construction practice at the project level.**

CGN6905 Traffic Flow Theory **3hrs. Microscopic and macroscopic traffic flow characteristics; traffic stream models; shockwaves, queuing, and other traffic operational analysis methods.**

Spring Term

CGN 6905 Geo Systems I **3hrs. Basic principals of foundation design and soil-structure interaction.**

CGN 5605 Public Works Planning **3hrs. Functional approach to planning and implementing public works needs with emphasis on role of engineer.**

Summer Term

CGN 6905 Engineering Project Management **3hrs. Engineering management skills in support of engineering project development and management.**

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Year Two

Fall Term

CGN 6905 Geo Systems II **3hrs. Settlement analysis, slope stability, embankments, modifications of soil structures.**

CCE 5035 Construction Planning and Scheduling **3hrs. Prereq: CCE 4204. Planning, scheduling, organizing, and control of civil engineering projects with CPM and PERT. Application of optimization techniques**

Spring Term

CGN6156 Construction Engineering II **3hrs. Advanced Construction Engineering management skills and procedures in support of design and construction practice above the project level.**

TTE 5256 Traffic Engineering **3hrs. Prereq: TTE 4004 or equivalent, or consent of instructor. Traffic studies; statistical applications; traffic operations for uninterrupted and interrupted flow facilities.**

Summer Term

CGN6905 Design of Temporary Structures **3hrs. Structural design and analysis of temporary structures used in the construction process. Basics of formwork design, scaffolding, rigging, shoring. Stability of structures under construction and design of erection bracing.**