COURSE DESCRIPTIONS BY COURSE DISCIPLINE PREFIX

REINFORCED CONCRETE

CIV-222 **Reinforced Concrete** **3 (2-3)** **Spring**
Prerequisites: EGR-251[S]
Corequisites:
This course introduces the basic elements of reinforced concrete structures. Topics include analysis and design of reinforced concrete beams, slabs, columns, footings, and retaining walls. Upon completion, students should be able to analyze and design components of a structure using reinforced concrete and draw simple plans using Computer Aided Drafting and Design software (CADD). (2013 FA)

SOILS AND FOUNDATIONS

CIV-111 **Soils and Foundations** **4 (2-4)** **Fall**
Prerequisites: EGR-251[S]
Corequisites:
This course presents an overview of soil as a construction material using both analysis and testing procedures. Topics include index properties, classification, stress analysis, compressibility, compaction, dewatering, excavation, stabilization, settlement, and foundations. Upon completion, students should be able to perform basic soil tests and analyze engineering properties of soil. (2013 FA)

STEEL AND TIMBER DESIGN

CIV-221 **Steel and Timber Design** **3 (2-3)** **Fall**
Prerequisites: EGR-251[S]
Corequisites:
This course introduces the basic elements of steel and timber structures. Topics include strength of materials applications, the analysis and design of steel and timber beams, columns, and connections and concepts of structural detailing. Upon completion, students should be able to analyze, design, and draw simple plans using Computer Aided Drafting and Design software (CADD). (2013 FA)