

TO: The Faculty of the College of Engineering
FROM: The Faculty of the School of Civil Engineering
RE: Changes in CE 584 Course Description and Semester Offering

From: CE 584 – Foundation Analysis and Design

Sem. 2, Class 3, Cr. 3

Prerequisite: CE 483. Authorized equivalent courses or consent of instructor may be used in satisfying course prerequisites.

Selected topics in soil response and technology needed in conventional geotechnical analysis and design; shearing behavior in sands; stresses induced by boundary loadings; settlement and time rate of settlement; bearing capacity and design of footings; piles, pile groups, caissons; and soil dynamics.

To: CE 584 – Foundation Analysis and Design

Sem. 1, Class 3, Cr. 3.

Prerequisite: CE 483. Authorized equivalent courses or consent of instructor may be used in satisfying course prerequisites.

Design of shallow foundations (isolated, combined, and strip footings), with specific attention to issues of mutual concern and interest to geotechnical and structural engineers. Review of factors that serve as the basis for selection of foundation type. Interpretation of subsurface exploration results. Settlement analyses and limit bearing capacity analyses. Communications and interaction between geotechnical and structural engineers. Structure and contents of a geotechnical report. Detailed treatment of geotechnical/structural design criteria and methodologies for various types of shallow and deep foundations.

Reason: To provide an updated course description and offering schedule.