ARCE 351: STRUCTURAL COMPUTING ANALYSIS I

Prerequisite: ARCE 212 or ARCE 222
Corequisite: ARCE 223, CSC 231 or CSC 234

Office: Building 21, Room 219 C, Phone: 756-1343

Office Hours: M 9-10, W 2-4, TH 11-1 and by appointment

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Textbook: none

Lectures: TU 8-11.00 or TU 3-6, ARCE C-Lab

Grading: Grading will be based on the following scheme:
70% Homework
30% Quizzes

Catalog description: Computer calculations, programming basics and technical reporting. Emphasis on use of spreadsheets as a tool to analyze building elements. 1 laboratory.

Learning outcomes: After taking this course the student should have

- the ability to formulate structural engineering problems in a Microsoft Excel spreadsheet environment
- the ability to use a variety of Excel functions, including matrix operations
- the ability to graph data and fit curves to data
- the ability to control flow of your program through logical statements
- the ability to organize a complicated spreadsheet