Course Name: Mathematics for Structural Engineering
Course Code: ARCH 684. 004
Program Placement: Elective Technology
Instructor(s): Don Grierson
               No graduate teaching assistants
Credits: 0.5 weight
Type: Lecture
Prerequisite: University entrance-level mathematics
Date(s) Offered: Winter 2011
SPC Nos.: these numbers refer to the learning outcomes matrix????

COURSE DESCRIPTION / OVERVIEW
The purpose of this course is to prepare architecture students for the mathematics they will encounter, and will be expected to know, when completing civil engineering courses in fulfillment of the requirements for the 'Structural Engineering Certificate'. The course is conducted over one term as a weekly series of 3-hour workshops focused on presenting mathematical topics of algebra and calculus from the viewpoints of: 1) development of theory; 2) illustrative structural engineering applications; and 3) student assignment work |to be handed in for grading|.

LEARNING OBJECTIVES
To learn the mathematics underlying the six core and five elective civil engineering courses that constitute the 'Structural Engineering Certificate'. Namely, the mathematics of structural mechanics/ analysis/ design/ dynamics/ rehabilitation for steel/concrete/timber construction.

COURSE REQUIREMENTS
Students must complete 10-12 weekly assignments that involve solving structural engineering problems using the mathematics of the course (100%)