

Graduate Module Outline

Title: Spreadsheet Programming

Instructor: G. Bishop

Timing (month/year module will be offered): July 2010

Module Description: The module will introduce the use of Visual Basic for Applications (VBA) within Microsoft Excel 2007. It will use VBA to teach fundamental programming concepts - constants, variables, decision structures, repetition structures, arrays, user-defined functions, subprocedures and debugging techniques.

The ability to program in VBA will allow graduate students to use Excel to modify existing datasets, create new data cells based on existing data and to perform tasks that are difficult or impossible to do without programming.

Since the Microsoft Access database also uses VBA, most of the concepts learned in this course will be directly transferable to Access.

Format: Lecture (1 hr/week) / Lab (2 hr/week)

Method of Evaluation: Weekly assignments (75%) and final project (25%)

Prerequisites (list undergraduate courses required as prerequisites):
CSCI1000 Computer Methods or equivalent