

School of Engineering and Computer Science
Department of Computer Science and Engineering
Introduction to Computing and Programming with Excel
CSI 1200
Winter 2018

This course is designed to introduce you to computers and programming using Excel and Visual Basic for Applications (VBA). In this course you will learn about many features of Excel, problem solving and simulation using Excel, and customization of your solutions through VBA programming. The emphasis in the course will be on developing problem solving skills. The examples used in the course are taken either from activities that you can easily relate with or are designed to introduce some computing concepts. The topics covered in the course include stored program computer model, Excel basics, worksheet functions, problem solving strategies, working with text, dates and times, lists and charts including pivot tables and pivot charts, simulation using Excel, macros, and VBA programming.

The successful completion of the course should provide you with skills to analyze problems and to develop and code simple algorithms. The list of course objectives is as follows:

- Basic Excel operations including functions and charts
- Conditional calculations and logic functions
- Conditional formatting and data validation
- Working with text, dates and time in Excel
- Working with lists and tables in Excel including pivot tables
- Charting in Excel including pivot charts
- Simulation using Excel
- Recording and coding Macros using VBA
- Writing custom functions and using Excel functions in VBA
- Program flow control in VBA

The course satisfies the university general education requirement in the formal reasoning knowledge foundation area. □

General Education Learning Outcomes:

Formal Reasoning

- FR1. Knowledge of one or more formal reasoning systems such as computer programming, mathematics, statistics, linguistics or logic
- FR2. Application of formal reasoning to read, understand, model and solve

problems across a variety of applications

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Office Hours: Tue: 6:30 – 7:00 PM or by appointment

Grader: Gaurav Tyagi Email: gtyagi@oakland.edu

Textbook: No need to spend money on any textbook. Links to the material on Internet and PDF versions of the notes will be provided. Still if you want to have a book for handy reference, I suggest buying the Dummy Series book on Excel. These books are well written and inexpensive.

Grading: Your grade will be determined by the followings:

Assignments: 150 Points
Weekly Quizzes (4): 50 Points
Midterm Exam: 100 Points
Final Exam: 100 Points

The midterm and the final exams will be conducted online. The midterm will be held just before the winter break.

Your score will be rounded off to the nearest tenth to calculate your grade. For example, a score of 293 will result in a grade of 2.9 and a score of 296 will give you a grade of 3.0.

Other Course Policies: It is expected that you will do your assignments and quizzes independently on your own. Any student found doing assignments and quizzes otherwise will receive a failing grade in the course.

No late submissions or makeup exams will be permitted except in cases of documented emergencies. It is your responsibility to check the course site and read emails to keep track of pending deadlines.

All assignments must be named using the following convention: Assignment#-Your First Name-Your Last Name. File extension, for example, Assignment1-John-Doe.xlsx.

Good Luck!