

**CS 61.11 Course Outline as of Fall 2009****CATALOG INFORMATION**

Dept and Nbr: CS 61.11 Title: MICROSOFT EXCEL

Full Title: Using Microsoft Excel

Last Reviewed: 3/23/2015

| Units   |      | Course Hours per Week |      | Nbr of Weeks | Course Hours Total |       |
|---------|------|-----------------------|------|--------------|--------------------|-------|
| Maximum | 3.00 | Lecture Scheduled     | 2.00 | 17.5         | Lecture Scheduled  | 35.00 |
| Minimum | 3.00 | Lab Scheduled         | 0    | 17.5         | Lab Scheduled      | 0     |
|         |      | Contact DHR           | 3.50 |              | Contact DHR        | 61.25 |
|         |      | Contact Total         | 5.50 |              | Contact Total      | 96.25 |
|         |      | Non-contact DHR       | 0    |              | Non-contact DHR    | 0     |

Total Out of Class Hours: 70.00

Total Student Learning Hours: 166.25

Title 5 Category: AA Degree Applicable

Grading: Grade or P/NP

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly: CIS 61.31

**Catalog Description:**

A lecture/lab course in the use of Microsoft Excel software. Topics covered range from the fundamentals of Excel's three major uses (spreadsheets, database and graphics) through the advanced use of functions, data commands macros and enhanced graphics capabilities. Additionally, data transfer, data linking and spreadsheet/database integration will be covered.

**Prerequisites/Corequisites:****Recommended Preparation:****Limits on Enrollment:****Schedule of Classes Information:**

Description: A lecture/lab course in the use of Microsoft Excel software. Topics covered range from the fundamentals of Excel's three major uses: spreadsheets, database & graphics. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended:

Limits on Enrollment:

Transfer Credit: CSU;

Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

|                      |                      |                        |                     |
|----------------------|----------------------|------------------------|---------------------|
| <b>AS Degree:</b>    | <b>Area</b>          | Effective:             | Inactive:           |
| <b>CSU GE:</b>       | <b>Transfer Area</b> | Effective:             | Inactive:           |
| <b>IGETC:</b>        | <b>Transfer Area</b> | Effective:             | Inactive:           |
| <b>CSU Transfer:</b> | Transferable         | Effective: Spring 1992 | Inactive: Fall 2020 |
| <b>UC Transfer:</b>  |                      | Effective:             | Inactive:           |

### **CID:**

### **Certificate/Major Applicable:**

Certificate Applicable Course

## **COURSE CONTENT**

### **Outcomes and Objectives:**

Students will:

1. Make effective use of the Excel basic command menus.
2. Apply at least six elementary functions and four advanced functions.
3. Apply and use relative and absolute cell addressing.
4. Apply a minimum of six cell formats.
5. Apply proper design techniques to simple and multi-component worksheets.
6. Make effective use of all the data transfer features provided in Excel
7. Design, prepare, and utilize a database in Excel.
8. Identify and use the data commands, logic operators and graphics capabilities of Excel.
9. Create at least 4 kinds of graphics.
10. Solve problems using moderately complex criteria using relational and logic operations.

### **Topics and Scope:**

1. Introduction to Excel
  - a. Worksheet components
  - b. Rows, columns, cells, cell addressing
  - c. Types of data-numbers, labels, formulas, functions
  - d. Moving about the worksheet
  - e. Editing the contents of a cell
2. Basic commands and concepts
  - a. The Excel menu system - access and use
  - b. Creating formulas - operators, design, implementation
  - c. Commands:
    - Copy, Cut, Paste

- Formatting, Alignment
  - Insertion and deletion of rows and columns
  - Setting column width
  - Windowing
- d. File handling:
- Save as...
  - Save
  - Open
- e. Printing:
- Print range
  - Page setup
  - Print dialog
- f. Cell addressing - Relative, Absolute, Range Names
- g. Functions
- Statistical - SUM, AVERAGE, MIN, MAX, COUNT
  - Logical - IF
  - Data reference - VLOOKUP, HLOOKUP
  - Date and Time - NOW, DATE, DATEVALUE
- h. Worksheet design
- General concepts and requirements
  - Multi-component, relational conditions
3. a. Advanced functions
- Math - ABS, INT, EXP, SQRT, ROUND
  - Financial - PMT
  - Data reference - CHOOSE
- b. - Database Design
- Database functions - DSUM, DCOUNT, DAVG
  - Database manipulation
    - sorting
    - query operations
    - relational operations
- c. Graphics
- Use and design
  - Enhancements
- d. Advanced data commands
- Data tables
  - Data distribution
  - Data fill
  - Data parse
- e. Advanced file operations
- File import and export
  - File linking
  - File merging

### **Assignment:**

1. Reading - approximately 30 pages per week
2. Discussion in class
3. Solving assigned problems at the computer
4. Create written reports as assigned

## Methods of Evaluation/Basis of Grade:

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.

Writing  
0 - 0%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Field work, Lab reports, Quizzes, Exams

Problem solving  
50 - 60%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances, Field work, Performance exams

Skill Demonstrations  
10 - 20%

**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion, Short Answer

Exams  
20 - 30%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

None

Other Category  
0 - 0%

## Representative Textbooks and Materials:

Cobb, Douglas, and Allan McGuffey, Microsoft Excel 3 Companion  
Microsoft Press, 1991