

AIS 072: SPREADSHEET SOFTWARE

Originator

mrichards

Justification / Rationale

Updating course materials, adding hybrid option, increasing class size, added spreadsheet modalities (Advisory Committee and Office Professional research indicated the need to add in alternate spreadsheet programs as well).

Effective Term

Fall 2023

Credit Status Credit - Degree Applicable

Subject AIS - Applications and Information Systems

Course Number

072

Full Course Title Spreadsheet Software

Short Title SPREADSHEETS

Discipline

Disciplines List

Computer Information Systems (Computer network installation, microcomputer technology, computer applications) Office Technologies (Secretarial skills, office systems, word processing, computer applications, automated office training)

Modality

Face-to-Face 100% Online Hybrid

Catalog Description

This course provides basic concepts and practical applications using Excel for Windows and explores other spreadsheet modalities. Students receive instruction and computer experience using electronic spreadsheets to solve common numerical and accounting-based problems.

Schedule Description

Spreadsheet software solutions for numerical and accounting based problems. Advisory: AIS 005

Lecture Units

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2
Lecture Semester Hours
36
Lab Units
1
Lab Semester Hours
54
In-class Hours
90
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Out-of-class Hours 72

Total Course Units 3 Total Semester Hours 162

Prerequisite Course(s) Advisory: AIS 005

Required Text and Other Instructional Materials

Resource Type Web/Other Open Educational Resource No

Year

2022

Description

Author: TestOut Corporation Publisher: TestOut Corporation Platform eBook Title: TestOut Microsoft Office Library, 978-1-935080-80-0 *Special ISBN issued for eBook and online resources package Online resources integrated with the e-textbook including online virtual computer labs which allow students to practice, explore and try different solutions using a simulated labs, assignments, and projects.

Class Size Maximum

35

Entrance Skills

File management skills

Requisite Course Objectives

AIS 005-Understand basic system and application software programs and concepts.

AIS 005-Demonstrate the ability to save and retrieve documents on a variety of appropriate storage devices

AIS 005-Understand types of information systems and their role in business.

AIS 005-Understand the basics about computers and their role in business

Course Content

Beginning to Intermediate

- · Explore spreadsheet current modalities
- Common Office Features
- · Creating and Managing Workbooks
- Organizing and Entering Data
- · Changing Properties and Printing Worksheets
- · Formatting Cells
- Entering Simple Formulas
- Using Advanced Functions
- Displaying Data in Charts
- · Organizing Data in Tables

Advanced

- · Managing Workbooks
- · Preparing Workbooks for Collaboration



- · Formatting Cells Based on Existing Data
- Formatting and Validating Data
- Advanced Conditional Formatting and Filtering
- Performing Logical Operations in Formulas
- · Looking Up Data by Using Functions
- · Using Advanced Date and Time Functions
- Performing Data Analysis
- Troubleshooting Formulas
- Creating and Modifying Simple Macros
- Creating and Modifying Advanced Charts
- Creating and Modifying PivotTables
- · Creating and Modifying PivotCharts

Lab Content

Beginning-Intermediate

- Create and Manage Workbooks
- Import, Enter, & Organize Data
- Change Properties and Print Worksheets
- Format Cells
- Enter Simple Formulas
- Use Advanced Functions
- Display Data in Charts
- Organize Data in Tables

Advanced

- Manage Workbooks
- · Fill Cells Based on Existing Data
- · Format and Evaluate Data
- Apply Advanced Conditional Formatting
- Perform Logical Operations in Formulas
- Look Up Data Using Functions
- Perform Data Analysis
- Create and Modify Simple Macros
- Create and Modify Advanced Charts
- · Create and Modify PivotTables
- · Create and Modify PivotCharts

Course Objectives

	Objectives	
Objective 1	Define and describe basic spreadsheet concepts, terms, and definitions.	
Objective 2	Start and identify parts of a spreadsheet screen.	
Objective 3	Create a simple spreadsheet using common formatting and editing commands.	
Objective 4	Demonstrate ability to enter numbers, text, formulas, and dates in a spreadsheet.	
Objective 5	Use spreadsheets formulas and functions.	
Objective 6	Format a worksheet.	
Objective 7	Create and use templates and workbooks.	
Objective 8	Demonstrate ability to link worksheets.	
Objective 9	Integrate spreadsheets within other applications.	
Objective 10	Use spreadsheets to analyze and solve business and accounting problems.	
Objective 11	Create and edit charts.	
Objective 12	Use spreadsheet functions for business analysis.	
Objective 13	Create appropriate Macro recording to automate repeated tasks.	



Student Learning Outcomes

	Upon satisfactory completion of this course, students will be able to:	
Outcome 1	Design and format an appropriate spreadsheet solution to a business problem.	
Outcome 2	Demonstrate use of Excel tools at an advanced level	
Outcome 3	Create and use of workbooks.	
Methods of Instruction		

Method	Please provide a description or examples of how each instructional method will be used in this course.				
Discussion	In class discussion and/or online LMS discuss	In class discussion and/or online LMS discussions			
Demonstration, Repetition/Practice	Practice using different computer features acc content	Practice using different computer features according to the class content			
Collaborative/Team	Creation of cooperative learning tasks such as activities	a small group or paired			
Technology-based instruction	Use of hardware and software according to objectives				
Lecture	Presentation of topic in content				
Methods of Evaluation					
Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment			
Self-paced testing	Interactive book and simulations (50% in class, 50% out of class, approximately 30 minutes per week)	In and Out of Class			
Self-paced testing	Interactive book and simulations (50% in class, 50% out of class, approximately 1 hour per week)	In and Out of Class			
Mid-term and final evaluations	Chapter quizzes, final exam (50% in class, 50% out of class, approximately 30 minutes per week)	In and Out of Class			
Computational/problem-solving evaluations	Projects using Excel features (50% in class, 50% out of class, approximately 1 hour per week)	In and Out of Class			
Laboratory projects	Lab demonstration of skills covering all the content of the course (50% in class, 50% out of class, approximately 2 hours per week)	In and Out of Class			

Assignments

Other In-class Assignments

- · Move and copy Excel spreadsheets from one folder to another
- Rename spreadsheets
- · Create, move, and delete folders
- · Create backups on diskettes
- · Open, modify and save an existing Excel spreadsheet
- Format large Excel spreadsheets using:
 - Fonts
 - Colors
 - · Column and row heights
 - Hide columns
 - Alignment
 - Text wrap
 - Auto Format
 - Custom number formats
 - Styles
- · Print a large, multi-workbook excel spreadsheet using Print Areas and Page setup
- · Create a spreadsheet with formulas using absolute and relative cell addressing
- · Create several spreadsheets using Built-in Functions for.
 - Statistical functions
 - · Accounting functions



- Text functions
- Arithmetic functions
- Lookup functions
- Financial Functions
- Date Functions
- · Create a workbook with multiple worksheets
- Create and modify charts
- · Use outlining, consolidation and subtotals to create summary Excel spreadsheets
- · Complete a comprehensive Final Project using all of the above Excel skills in a business situation

Other Out-of-class Assignments

- · Spreadsheet projects to demonstrate proficiency with all of the in-class assignments
- · Readings in the textbook and in recommended supplementary literature
- · Creation and maintenance of personal budgets
- Research projects involving the collection of financial data from a public company and using spreadsheets to analyze the company's health and performance

Grade Methods

Letter Grade Only

Distance Education Checklist

Include the percentage of online and on-campus instruction you anticipate.

Online % 100 **On-campus %** 0

What will you be doing in the face-to-face sections of your course that necessitates a hybrid delivery vs a fully online delivery? Nothing necessitates a hybrid delivery. However, student needs may indicate hybrid would be beneficial for orientations, study sessions, and individual &/or group meetings

Instructional Materials and Resources

If you use any other technologies in addition to the college LMS, what other technologies will you use and how are you ensuring student data security?

All data referent to student work done outside of Canvas is encrypted and synced by the access pairing created by College of the Desert IT Department.

If used, explain how specific materials and resources outside the LMS will be used to enhance student learning.

n/a

Effective Student/Faculty Contact

Which of the following methods of regular, timely, and effective student/faculty contact will be used in this course?

Within Course Management System:

Discussion forums with substantive instructor participation Online quizzes and examinations Private messages Regular virtual office hours Video or audio feedback Weekly announcements

External to Course Management System:

Direct e-mail Posted audio/video (including YouTube, 3cmediasolutions, etc.)



Briefly discuss how the selected strategies above will be used to maintain Regular Effective Contact in the course.

This class if online is being taught via Canvas. Instructors will use asynchronous text and video messages to interact with the students. Also, discussions boards, constant announcements will be used. Zoom virtual office hours with screen sharing and interaction capabilities will be available.

If interacting with students outside the LMS, explain how additional interactions with students outside the LMS will enhance student learning.

Canvas is used for external interaction as well.

Other Information

Provide any other relevant information that will help the Curriculum Committee assess the viability of offering this course in an online or hybrid modality.

n/a

MIS Course Data

CIP Code 52.0401 - Administrative Assistant and Secretarial Science, General.

TOP Code 051400 - Office Technology/Office Computer Applications

SAM Code C - Clearly Occupational

Basic Skills Status Not Basic Skills

Prior College Level Not applicable

Cooperative Work Experience Not a Coop Course

Course Classification Status Credit Course

Approved Special Class Not special class

Noncredit Category Not Applicable, Credit Course

Funding Agency Category Not Applicable

Program Status Program Applicable

Transfer Status Transferable to CSU only

General Education Status Y = Not applicable

Support Course Status N = Course is not a support course

Allow Audit No



Repeatability

No

Materials Fee No

Additional Fees? No

Files Uploaded

Attach relevant documents (example: Advisory Committee or Department Minutes) Office Professional Advisory Meeting Minutes SP22.docx

Approvals

Curriculum Committee Approval Date 11/01/2022

Academic Senate Approval Date 11/10/2022

Board of Trustees Approval Date 12/16/2022

Chancellor's Office Approval Date 12/22/2022

Course Control Number CCC000635128

Programs referencing this course

BIW II Office Support and Technologies Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=200) Applications and Information Systems AS Degree (http://catalog.collegeofthedesert.eduundefined/?key=223) BIW IV Marketing Office Specialist Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=224) BIW III Remote Office Support and Technologies Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=339)

Office Technology Essentials Certificate of Achievement (http://catalog.collegeofthedesert.eduundefined/?key=383)