

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE
ACADEMIC AFFAIRS

Course Number: BUS-222 Class/Lect. Hours: 3 Lab Hours: 0 Credits: 3 Dept.: Business Administration

Course Title: Business Decision Tools – Excel and more Semester: Fall Year: 2018

Course Description, Prerequisite, Corequisite:

Students will create and format worksheets primarily using MS Excel; other spreadsheet tools will be introduced. Basic worksheet concepts such as applying font styles, setting margins, modifying cell contents, inputting formulas/functions, and creating various charts will be covered. Advanced topics to be introduced include functions (financial, text, statistical, logical), lookup tables, pivot tables, what-if analysis, macros, templates, and managing workbooks. Business decision products will be introduced, including Microsoft Excel Add-ins, MS Access, data analytics, data mining, business intelligence, and dashboards. Emphasis will be placed on reading data and on assessing the story that is being told by the data. Co-requisite(s): OIT-100, OIT-101, OIT-110

OBJECTIVES/COMPETENCIES

Course Objectives	Competencies
<p>1. Insert formulas in a worksheet, utilizing relative, absolute, and mixed cell reference, and build on complexity of formulas by utilizing functions in formulas. Create formulas utilizing the most efficient format and/or functions. Create and edit spreadsheets of varying complexity.</p> <p>2. Format a worksheet to gain target audience’s attention, including symbols, special characters, SmartArt, WordArt, screenshots, images, and resizing/ cropping pictures as appropriate, and Universal Design considerations to accommodate target audiences with various abilities.</p>	<p>1. Create a worksheet that contains correct, efficient formulas utilizing mathematical rule for order of operations (PEMDAS) logic in formula setup, and includes basic operators, functions, relative, absolute, and mixed cell reference; build on complexity of formulas.</p> <p>2. Format a worksheet, including changing font, size, color, shading, symbols, special characters. Apply Universal Design principles and create tags for objects in worksheet.</p>

Course Objectives	Competencies
<ul style="list-style-type: none"> 3. Assess the information requirements and then prepare the materials that achieve the goal efficiently and effectively. 4. Plan, research, create, and revise, worksheets/ workbooks to meet specific communication needs, including but not limited to: managing workbook data; maintaining workbooks; moving and copying data within and between workbooks; and utilizing hyperlinks and form templates. 5. Analyze and summarize numerical data and project outcomes to make informed decisions by: using a filter; utilizing LOOKUP values in a table; creating charts and sparklines; and by utilizing pivot tables and pivot charts. 6. Automate a repetitive series of keyboard/ mouse actions. 7. Articulate the story behind any worksheet data, and follow-through with decisions based on the information. 8. Share and exchange data with other programs, both as import and as export files. 9. Research other available decision making tools. 	<ul style="list-style-type: none"> 3. Create a new worksheet to effectively and efficiently display data; create, edit spreadsheets of varying complexity. 4. Move and copy data within and between workbooks; utilize hyperlinks and form templates. Insert data and charts into other application tools (Word, PowerPoint). 5. Filter data, create charts and sparklines; use VLOOKUP or HLOOKUP function; analyze data utilizing pivot tables and charts; Perform "What-if" analysis. 6. Create macros to automate a repetitive tasks. 7. Given a worksheet, be able to articulate a story that the data is showing, and consider decision options. 8. Import file from another productivity tool, such as Access, into Excel; prepare a worksheet for export as a .csv or other file format. 9. Assess the power, value of other business decision tools for various types of business decisions.