EXCEL  
OST 2621

Class Hours: 3.0  
Credit Hours: 3.0

Laboratory Hours: 0.0

Date Revised: Spring 01

[NOTE: If you wish to take this course for AUDIT (not receive a grade), you can change to AUDIT status by completing an Add/Drop form by the published deadline date. You will receive the same instruction as students taking the course for credit, but your GPA will not be affected and the course will not count toward an academic degree.]

This college-level course is structured as a lecture-format class. You will be expected to do lab work in addition to class time to complete assignments. Open labs are available at all campuses. Check posted hours.

Catalog Course Description:

A study to provide fundamentals of spreadsheet applications including entering, formatting, charting, managing, and analyzing data using Excel software program.

Entry Level Standards:

Keyboarding speed of 25 wpm recommended

Prerequisite:

OST 1005 or OST 1211 or 1221 or equivalent

Textbook(s) and Other Reference Materials Basic to the Course:

2. Two or three high-density 3½” diskettes
3. Folder, two-pocket, for submitting assignments.

I. Week/Unit/Topic Basis:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1-2</td>
<td>Introduction to Microsoft® Windows™2000 (Adaptive review of Tutorials 1 &amp; 2)</td>
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<tr>
<td>2-3</td>
<td>Overview of Excel 2000; Using Worksheets to Make Business Decisions and Creating a Worksheet</td>
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<tr>
<td>4</td>
<td>Developing a Professional-Looking Worksheet (Test 1 – Tutorials 1-3)</td>
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<tr>
<td>5-6</td>
<td>Creating Charts</td>
</tr>
<tr>
<td>7-8</td>
<td>Working with Excel Lists</td>
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<tr>
<td>9-10</td>
<td>Integrating Excel (Test 2 – Tutorials 4-6)</td>
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</tbody>
</table>
II. Course Objectives*:

A. Demonstrate basic fundamentals of Microsoft® Windows™ concepts.  I, II, III, VI, XI, XII

B. Demonstrate basic fundamentals of spreadsheet concepts.  I, II, III, VI, XI, XII

C. Create and use charts.  I, II, III, VI, XI, XII

D. Create, edit, and use a list (database).  I, II, III, VI, XI, XII

E. Integrate Excel with other windows programs.  I, II, III, VI, XI, XII

*Roman numerals after course objectives reference goals of the OST program.

III. Instructional Processes*:

Students will:

1. Refine their reading skills and expand their vocabularies through completion of weekly reading assignments.  Communication Outcome

2. Use technology to promote objectives of the course; specifically, Excel and Windows 2000.  Technological Literacy Outcome

3. Use Excel’s formatting commands to develop a professional-looking worksheet.  Problem Solving and Decision Making Outcome, Active Learning Strategy

4. Complete assignments based on real workplace scenarios.  Problem Solving and Decision Making Outcome, Transitional Strategy

5. Use e-mail to communicate with your instructor on class activities and assignments.  Technological Literacy Outcome, Communication Outcome

6. Interpret data from business information provided on a worksheet, a list (database), a pivot table or charts.  Information Literacy Outcome

7. Internalize the work ethic by regularly attending class, being punctual, being dependable and acting in a professional manner while in class.  Personal Development Outcome, Transitional Strategy

8. Use hyperlinks, document and formula linking, and saving a document as an html document to understand the integration of documents and software.  Technological Literacy Outcome

*Strategies and outcomes listed after instructional processes reference Pellissippi State’s goals for strengthening general education knowledge and skills, connecting coursework to experiences beyond the classroom, and encouraging students to take active and responsible roles in the educational process.

IV. Expectations for Student Performance*: 

11-12 Developing an Excel Application (brief explanation of macros)
13-14 Working with Multiple Worksheets (brief explanation of templates)
15 Data Tables and Scenario Management (using One-Variable Data Tables only); Using Solver for Complex Problems (Week 15 topics are optional based on time available)
16 Final Exam (Test 3 – Tutorials 7-8 and whatever is covered after Tutorial 8)
Upon successful completion of this course, the student should be able to:

1. Identify the terminology of Windows™ A
2. Open multiple applications. A
3. Copy, delete and move files. A
4. Switch between applications windows and documents windows. A
5. Identify the terminology of Excel Release for Windows. B
6. Identify the anatomy of a worksheet. B
7. Identify the types of worksheet entries. B
8. Move around the worksheet. B
9. Create a spreadsheet. B
10. Format numeric entries. B
11. Access the Help functions. B
12. Enter formulas. B
13. Use basic @ functions. B
14. Use Scenario management and data tables. B
15. Use the Copy, Cut, and Paste commands. B
16. Print spreadsheets with headers and footers. B
17. Perform What-If alternatives. B
18. Use Absolute references. B
19. Perform document management by using windows, freezing titles, etc. B
20. Use range names in formulas. B
21. Use multiple worksheets. B
22. Create charts (graphs). C
23. Use the charts toolbar. C
24. Place titles on the chart. C
25. Add graphics to charts. C
26. Enhance the appearance of the chart by using fonts and other attributes. C
27. Change the size of a chart. C
28. Perform What-If analysis with charts. C
29. Use the list commands.  D
30. Sort database in ascending and descending order.  D
31. Use the AutoFilter in a list to match a particular criteria.  D
32. Use Subtotals in a list.  D
33. Create and use a Pivot table.  D
34. Changing the layout of a Pivot table.  D
35. Create and use simple macros.  E
36. Use the various methods of integration with other windows applications.  F
37. Create Hyperlinks to connect files.  F

*Letters after performance expectations reference the course objectives listed above.

V. Evaluation:

A. Testing Procedures:

Evaluations will consist of theory tests and/or application activities. Theory questions will be multiple-choice, true/false, and/or short answer. Application activities will consist of exercises to complete on the PC. Diskettes and/or printouts will be collected for grading. NO MAKEUP TESTS WILL BE GIVEN. If you are absent on one of the days and/or nights a test is given, you will take a comprehensive application test at the end of the semester to replace the test you have missed.

B. Laboratory Expectations:

N/A

C. Field Work:

N/A

D. Other Evaluation Methods:

Homework and/or Graded Exercises:
Selected assigned application exercises will be collected for grading. A point system of grading will be utilized for the applications exercises based on the amount of work done and accuracy of work.

E. Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>93-100</td>
</tr>
<tr>
<td>B+</td>
<td>90-92</td>
</tr>
<tr>
<td>B</td>
<td>85-89</td>
</tr>
<tr>
<td>C+</td>
<td>80-84</td>
</tr>
<tr>
<td>C</td>
<td>75-79</td>
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<tr>
<td>D</td>
<td>70-74</td>
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<tr>
<td>F</td>
<td>69 or below</td>
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VI. Policies:
A. Attendance Policy:

Pellissippi State Technical Community College expects students to attend all scheduled instructional activities. As a minimum, students in all courses must be present for at least 75 percent of their scheduled class and laboratory meetings in order to receive credit for the course. [NOTE: No differentiation is noted for excused/unexcused absences. These will be treated as an absence.]

B. Academic Dishonesty:

Plagiarism, cheating, and other forms of academic dishonesty are prohibited. A student guilty of academic misconduct, either directly or indirectly through participation or assistance, is immediately responsible to the instructor of the class. In addition to other possible disciplinary sanctions which may be imposed through the regular Pellissippi State procedures as a result of academic misconduct, the instructor has the authority to assign an F or a zero for the exercise or examination or to assign an F in the course.

C. Other Policies:

1. OST majors are required to purchase and start a professional portfolio in which they will collect examples of documents that they complete in OST 2006 (Word II), OST 2621 (Excel), OST 2600 (Access), OST 2120 (Keyboarding III), OST 2810 (Creating Web Pages), OST 2015 (Word/Excel/PowerPoint III), and OST 2300/2301 (Practicum). This portfolio will be submitted during the last semester at Pellissippi State, will be reviewed by the OST faculty, and will be used for job applications to present during job interviews.
2. In order for grades to be calculated, all assigned work must be submitted in a timely fashion. Assigned work must be turned in by date designated.
3. Students must have a valid PSTCC ID to be presented on demand to gain access to PSTCC facilities.