

2 Credit Individualized Graduate Continuing Education for Professional Educators Syllabus

**School of Education
University of St. Thomas
Minneapolis, Minnesota**

**Mission Statement
School of Education**

Inspired by Catholic intellectual tradition, the mission of the School of Education is to educate practitioners to be morally responsible leaders who think critically, act wisely and work skillfully to advance the common good.

Course Title: Microsoft Excel 2008, A Video Course

CTED723

Instructor

Jim Ruid

E-Mail: CTR@JimRuid.com

Phone: (763) 439-7007

Snail Mail: Jim Ruid, 5737 Post Rd, Anoka, MN 55303

Web Page: www.jimruid.com

What you will need:

A personal computer with Microsoft Excel loaded.

What is provided in the course kit:

Registration and Evaluation materials.

Article reprints

Training CDs for Excel

What needs to be returned: (Return to: Jim Ruid, 5737 Post Rd, Anoka, MN 55303)

The training CDs

Completed Activities

Return to St. Thomas

Evaluation materials follow direction on form.

Course Description

Educators recognize that technology can create enriched learning environments, and that they can effectively enhance teaching and learning with innovative tools and resources. The tools and resources needed to integrate the technology into the curriculum are found in Microsoft Excel help, the enclosed cd-roms and articles.

This course requires that you have the appropriate software for your operating system. The use of the help screens from within the software is your best resource for just that - help.

Goals and Objectives

Upon completion of the course participants will be able to:

- Navigate toolbars and menus with ease
- Window Components Enter Data, Saving Your Work, Basic Edits, Help Options, Formulas, and Functions, Move Information, Formatting Cells, Cell Height & Width, Print Preview, and Printing.
- Advanced Formatting, Automatic Formatting, Worksheet Options, Insert & Delete, AutoCorrect, Fill Commands, Custom List, Go To, Find & Replace, Spell Checking, Absolute References, Advanced Functions
- Headers & Footers, Arrange Excel Windows, Zoom, Custom Views, Navigation & Selection, Linking, 3D Functions, Range Names, Drawing Tools, Basic Charting, Advanced Charting, Hyperlinks
- Outlining, Sorting, Data Validation, Subtotals, Filtering Data, Pivot Tables, Consolidate, Importing, Add-Ins, Analysis Tools, Paste Special, Analyze Database
- Share Workbooks, Track Changes, Troubleshoot Errors, Protection, Web Documents, Wizard Tools, Changing Options, Style Sheets, Toolbars, Menus, Other Spreadsheets, Smart Tags
- IF Statement, Lookup Statement, Text Functions, Microsoft Equation, Templates, Defaults, Record Modules, Edit Modules, Interactive Modules, Module Functions, Set Print Areas, Insert Comments

Texts/Readings

The required reading/viewing is found in a set of 2 cd-roms and a series of article reprints (enclosed with syllabus):

Thell, R Excel 2008. CD-ROM. Holly Hill, Florida, Studio eWorks Inc. (2008)

Christensen, R., Honcock, R., Knezek, G (2008). Cross-Validating Measures of Technology Integration: A First Step Toward Examining Potential Relationships Between Technology Integration and Student Achievement. Retrieved March 10th, 2009 from ISTE database.

Fraser, V., Garofalo, J., Juersivich, N (2008).T he Use of Technology in Facilitating Student Teachers Lesson Planning Process and Improving Their Quality of Classroom Life. Retrieved March 10th, 2009 from ISTE database.

Moyle, K (2007). Measuring the value of educational technologies in schools. Retrieved March 10th, 2009 from ISTE database.

Wilson, E (2007) Teacher Use of Technology: From the Teacher Education Program to the Classroom. Retrieved March 10th, 2009 from ISTE database.

Participants will complete the readings and independent activities described below to achieve the course objectives.

Schedule of Readings, Topics, and Assignments

Reading Material	Packet 1 Topics & Assignments
Read the enclosed articles	<p>Topics: Technology challenges, paradigms, strategies and uses.</p> <p>Assignment 1: Read the four articles then discuss effect of technology in your classroom.</p> <ul style="list-style-type: none"> • The current state of technology; what is working and what is not. • Future plans for technology • How technology impacts student learning. • Is technology worth the cost? <p>Outline your paper and label outline Label the paper Technology. Paper is five pages in length, double spaced, size 12 font and Times New Roman. References are required.</p>

Reading Material	Packet 2 Topics & Assignments
<p>Watch Excel videos, volume 1 and 2</p> <p>In Microsoft Excel, go to help and Microsoft Excel Help. Type in topic and read articles for each topic listed.</p>	<p>Topics: Overview, data and calcs, advanced functions, formatting, audit and documentation, managing windows, printing, drawing tools, modify settings, advanced data tools, analysis tools.</p> <p>Assignments 2: Create an Excel Spreadsheet that tracks happenings books fundraising for a student club. You have 20 students that you need to track expenses and revenues for a 9 month period plus one sheet with the totals for the year. You will have 10 sheets in your spreadsheet. Students are allowed to claim expenses such as gas for travel, copies for flyers, cost of books and any discounts they allowed. Cost of the books is \$10.00 and suggested</p>

	<p>selling price is \$25.00. Students are paid 10% of profits. For the sake of the simplicity, we will assume that the books are good for one year from date of purchase. Students are allowed to discount the books up to \$5.00 for quantity sales. Save this file as Happenings and print a copy of the September and Totals sheets, then print a copy of each showing formulas. You also need to create a form that the students will fill out each month detailing their monthly activity. Save this file as students and print a copy. See Appendix A for an example of what an individual month may look like. You may change anyway you see fit. A hand written copy of your planning sheet is required. The planning sheet should show your column and row titles and any formulas that you will use in the spreadsheet. Use appropriate formatting for all cells.</p>
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Reading Material	Packet 3 Topics & Assignments
<p>Reading(s): Watch Volume 1 and 2</p> <p>In Microsoft Excel, go to help and Microsoft Excel Help. Type in topic and read articles for each topic listed.</p>	<p>Topics: Sort & filter, text columns & validation, forms and subtotals, consolidate & grouping, smartart graphics, wordart, basic charts, advanced charts, range names, pivottables, customizing excel, linking</p> <p>Assignment 3: Open a new Excel Spreadsheet. You are going to create a spreadsheet for keeping track of students and requirements for fall sports. Create the table as shown in Appendix B. Use data Validation: to</p> <ul style="list-style-type: none"> • Enter grades (9-12) • Date of birth (Limit dates to 12-31-1985 and 1-1-1991), • Physical (yes or no) • Sport/fees. Use a nested IF Statement to enter Fees once the sport has been entered.) <ul style="list-style-type: none"> ○ Tennis/\$100 ○ Football/\$200 ○ Dance/\$200 ○ Soccer/\$100). <p>Setup error messages if data is entered incorrect. Enter data to complete table. Save table as sports. Print a copy showing data and one showing formulas.</p> <p>Assignment 4 Using the data table created in Assignment 3</p> <ul style="list-style-type: none"> • Use outlining to consolidate the table • Use sorting • Use Subtotals • Use Filtering <p>Make logical decisions about the topics above. Use Prt Scrn button on your keyboard to copy your screen to the clipboard, and then paste that image to a word processor and print a copy. You will need to add columns and data to the table to make some of the functions work. Print three different screens per topic.</p>

Reading Material	Packet 4 Topics & Assignments
<p>Watch Volume 1-2</p> <p>In Microsoft Excel, go to help and Microsoft Excel Help. Type in topic and read articles for each topic listed.</p>	<p>Topics: Share Workbooks, Track Changes, Troubleshoot Errors, Protection, Web Documents, Wizard Tools, Changing Options, Style sheets, Toolbars, Menus, Other Spreadsheets, Smart Tags.</p> <p>Assignment 5 Create a form that can be used in your classroom to gather information about your students. Include drop downs, check boxes, formulas and tables. Include a hand written design sheet showing your planning for the form. Use protection on the form. Print two copies, one with data and one with formulas. Add comments as necessary.</p>

Reading Material	Packet 5 Topics & Assignments
<p>Review Volume 1-2</p> <p>In Microsoft Excel, go to help and Microsoft Excel Help. Type in topic and read articles for each topic listed.</p>	<p>Topics: If Statement, Lookup Statement, Text Functions, Microsoft Equation, Templates, Defaults, Record Modules, Edit Modules, Interactive modules, Module functions, Set Print Areas Insert Comments.</p> <p>Assignment 6 Contact a local Church, Community Organization, Athletic Group, Activities Group or Non-Profit group and create a spread sheet that will help better organize and track activities Use Seven or more components listed in the goals section. Include Contact name, organization name address and phone.</p> <p>Use attached Rubric</p>

Assignments and Projects

The following assignments are required for this course:

Percent of grade	Assignment	Title
20%	Assignment One:	Technology paper
20%	Assignment Two:	Fundraiser
20%	Assignment Three:	Sports Table
15%	Assignment Four:	Data Manipulation
10%	Assignment Five:	Forms
15%	Assignment Six	Community Project

Evaluation and Grading

(Course specific assessment description)

All assignments, regardless of length, must be typed and incorporate APA style references when appropriate. Written assignments will be evaluated on accuracy of information, completeness of assignment, clarity of writing/presentation, organization of information and material, and accomplishment of the goals for each assignment.

A = 94-100 points

A- = 90-93 points

B+ = 87-89 points

B = 84-86 points

B- = 80-83 points

C = 75-79 points

F = less than 75 points

I = Incomplete Work

American Disabilities Act

Accommodations will be provided for individuals with documented disabilities or special learning needs. Please contact the instructor for accommodations prior to the beginning of the course.

Registration Requirement

Students must hold a baccalaureate degree and may not schedule more than nine (9) semester credits for fall, and spring semesters or more than twelve (12) semester credits for summer term.

Request for Transcript

Do not request an official transcript from the University of St. Thomas until you receive an official grade report for this course or all courses you are taking in a term. Download an Official Transcript Request Form at www.stthomas.edu/registrar/forms/transcript.htm.

Tax Receipt:

A receipt for tax purposes is not provided by the University of St. Thomas. If you wish to receive a receipt for tax purposes, please request this with your registration confirmation packet.

Standards of Effective Practice for Teachers (Minnesota Rule, CH.8710, Sec.2000) to be addressed in this course. Does not apply to courses offered in states other than Minnesota. (See <http://www.revisor.leg.state.mn.us/arule/8710/2000.html>). **Licensure Competencies:**

Key:

Knowledge and understanding of the standard = **K**

Practice in applying the standard = **P**

Assessment/demonstration of attainment of the standard = **A**

Standard 4, Instructional Strategies

A teacher must understand and use a variety of instructional strategies to encourage student development of critical thinking, problem solving, and performance skills. The teacher must:

- A. understand Minnesota's graduation standards and how to implement them; (K)
- B. understand the cognitive processes associated with various kinds of learning and how these processes can be stimulated; (K)
- C. understand principles and techniques, along with advantages and limitations, associated with various instructional strategies; (K)
- D. enhance learning through the use of a wide variety of materials and human and technological resources; (K, P)
- E. nurture the development of student critical thinking, independent problem solving, and performance capabilities; (K, P, A)
- F. demonstrate flexibility and reciprocity in the teaching process as necessary for adapting instruction to student responses, ideas, and needs; (K, P, A)
- G. design teaching strategies and materials to achieve different instructional purposes and to meet student needs including developmental stages, prior knowledge, learning styles, and interests; (K, P, A)
- H. use multiple teaching and learning strategies to engage students in active learning opportunities that promote the development of critical thinking, problem solving, and performance capabilities and that help students assume responsibility for identifying and using learning resources; (K, P, A)
- I. monitor and adjust strategies in response to learner feedback; (K, P, A)
- J. vary the instructional process to address the content and purposes of instruction and the needs of students; (K, P, A)
- K. develop a variety of clear, accurate presentations and representations of concepts, using alternative explanations to assist students' understanding and present varied perspectives to encourage critical thinking; and (K, P, A)
- L. use educational technology to broaden student knowledge about technology, to deliver instruction to students at different levels and paces, and to stimulate advanced levels of learning. (K, A)

Knowledge Base

The knowledge base for the course, in part, is affirmed in the writing and research of these references.

References

Cavanaugh, Cathy, Kara Dawson, and Albert Ritzhaupt. "Statewide Study of 1:1 Computing: The Impact on Teaching and Achievement." Retrieved 17 November 2008.

http://www.iste.org/Content/NavigationMenu/Research/NECC_Research_Paper_Archives/NECC2008/NECC_2008_Research_Paper_Archive.htm.

Foulger Teresa S. "Innovative Technologies, Small Groups, and a Wiki: A 21st Century Preservice Experience Founded on Collaboration." Retrieved 17 November 2008.

http://www.iste.org/Content/NavigationMenu/Research/NECC_Research_Paper_Archives/NECC2008/NECC_2008_Research_Paper_Archive.htm.

Fraser, Virginia, Joe Garofalo, Nicole Juersivich "The Use of Technology in Facilitating Student Teachers' Lesson Planning Process and Improving Their Quality of Classroom Life." Retrieved 17 November 2008.

http://www.iste.org/Content/NavigationMenu/Research/NECC_Research_Paper_Archives/NECC2008/NECC_2008_Research_Paper_Archive.htm.

Hall, Bettie C. Kenneth E. Martin, "Relationships Among Computer Self-Efficacy, Professional Development, Teaching Experience, and Technology Integration of Teachers." Retrieved 17 November 2008.

http://www.iste.org/Content/NavigationMenu/Research/NECC_Research_Paper_Archives/NECC2008/NECC_2008_Research_Paper_Archive.htm.

Nguyen Thanh Truc T. "Technology Tango: School Library Media Specialists and Technology Coordinators." Retrieved 17 November 2008.

http://www.iste.org/Content/NavigationMenu/Research/NECC_Research_Paper_Archives/NECC2008/NECC_2008_Research_Paper_Archive.htm.

Ray Andrea L. "Changed by Design: Using Instructional Strategies to Influence Teachers' Attitudes." Retrieved 17 November 2008.

http://www.iste.org/Content/NavigationMenu/Research/NECC_Research_Paper_Archives/NECC2008/NECC_2008_Research_Paper_Archive.htm.

Assignments and Materials are due by August 31st

(This is not a flexible deadline!)

Microsoft Excel - Book1

File Edit View Insert Format Tools Data Window Help

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A1 Appendix A

	A	B	C	D	E	F	G	H	I	J
1		Appendix A								
2										
3			Expenses							
4	Student	Travel	Advertising	Cost of Books	Discounts	Revenue	Gross Profit	10% Student Pmt	Net profit	
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Microsoft Excel - Sports.xls

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	A	B	C	D	E	F	G	H	I
1	Appendix B								
2									
3									
4	First	Last	ID#	Grade	DOB	Physical	Fees Owed	Sport	
5	Mike	Flanagan	58158						
6	Brett	Favre	48597						
7	Mark	Tauscher	65981						
8	Reggie	White	92541						
9	Bubba	Franks	88365						
10	William	Henderson	33279						
11	Aaron	Kampman	74785						
12	Kevin	Berry	71841						
13	Ahman	Green	30994						
14	Donald	Driver	80644						
15	Maria	Sharapova	12457						
16	Svetlana	Kuznetsova	87542						
17	Nadi	Petrova	89562						
18	Anatasia	Myskina	98653						
19	Elena	Likhovtseva	74859						
20	Gisela	Dulko	47586						
21	Shahar	Peer	41526						
22	Serena	Williams	14253						
23	Venus	Williams	79461						
24	Mary	Pierce	97643						
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Grading Rubric-Packet 2

Description	Criteria				Student Checklist
Tracking 20 Students	60-70% 14 Students	70-80% 16 Students	80-90% 18 Students	90-100% 20 Student Correctly tracked	
Expenses and Revenues	60-70% 6 Wrong Totals	70-80% 4 Wrong Totals	80-90% 2 Wrong Totals	90-100% Correct totals	
9 Months of activity	60-70% 6 Months	70-80% 7 Months	80-90% 8 Months	90-100% 9 months correctly tracked	
Print September	60-70% 6 formatting errors	70-80% 4 formatting errors	80-90% 2 formatting errors	90-100% Page formatted correctly	
Print Totals	60-70% 6 formatting errors	70-80% 4 formatting errors	80-90% 2 formatting errors	90-100% Page formatted correctly	
Print formulas	60-70% 6 incorrect formulas	70-80% 4 incorrect formulas	80-90% 2 incorrect formulas	90-100% All formulas correct	
Column and row titles	60-70% 6 incorrect titles	70-80% 4 incorrect titles	80-90% 2 incorrect titles	90-100% All rows and columns have correct titles, and spelling	
Hand written plan	60-70% Complete	70-80% Complete	80-90% Complete	90-100% Completed	

Grading Rubric-Packet 3, Assignment 3

Description	Criteria				Student Checklist
	60-70%	70-80%	80-90%	90-100%	
Correct Data Validation	Missing 3	Missing 2	Missing 1	Complete	
All data entered correctly	Up to 6 errors	Up to 4 errors	Up to 2 errors	0 spelling Errors	
Physical with yes or no responses	Missing 3	Missing 2	Missing 1	Complete	
Spelling	Up to 6 errors	Up to 4 errors	Up to 2 errors	0 spelling Errors	
Print Spreadsheet	6 formatting errors	4 ² formatting errors	2 formatting errors	Page formatted correctly	
Print formulas	6 Incorrect	4 incorrect	2 Incorrect	All formulas correct	
Column and row titles	Up to 6 Typos	Up to 4 Typos	Up to 2 Typos	All rows and columns have correct titles, and spelling	

Grading Rubric-Packet 3, Assignment 4

Description	Criteria				Student Checklist
	0%	70-80%	80-90%	90-100%	
Data Consolidation	No screen printed	1 Different screen	2 Different screens	3 Different screens	
Sorting	No screen printed	1 Different screen	2 Different screens	3 Different screens	
Subtotals	No screen printed	1 Different screen	2 Different screens	3 Different screens	
Filtering	No screen printed	1 Different screen	2 Different screens	3 Different screens	

Grading Rubric-Packet 4

Description	Criteria				Student Checklist
Drop Downs	60-70% 1-2 Dropdowns	70-80% 3-4 Dropdowns	80-90% 5-6 Dropdowns	90-100% 7-8 Dropdowns	
Check Boxes	60-70% 1-2 Check Boxes	70-80% 3-4 Check Boxes	80-90% 5-6 Check Boxes	90-100% 7-8 Check Boxes	
Spelling	60-70% Up to 6 errors	70-80% Up to 4 errors	80-90% Up to 2 errors	90-100% 0 Errors	
Print Spreadsheet	60-70% Up to 6 errors	70-80% Up to 4 errors	80-90% Up to 2 errors	90-100% Page formatted correctly	
Print formulas	60-70% Up to 6 errors	70-80% Up to 4 errors	80-90% Up to 2 errors	90-100% All formulas correct	
Column and row titles	60-70% Up to 6 errors	70-80% Up to 4 errors	80-90% Up to 2 errors	90-100% All rows and columns have correct titles, and spelling	

Grading Rubric-Packet 5

Description	Criteria				Student Checklist
	60-70%	70-80%	80-90%	90-100%	
Spelling and formatting	5-6 Errors	3-4 Errors	1-2 Errors	0 Errors	
Use goals	1-2 Goals	3-4 Goals	5-6 Goals	7-8 Goals	
Contact Information	0% if not included			90-100% 0 Errors	
Print Spreadsheet	60-70% Up to 6 errors	70-80% Up to 4 errors	80-90% Up to 2 errors	90-100% Page formatted correctly	
Print formulas	60-70% Up to 6 errors	70-80% Up to 4 errors	80-90% Up to 2 errors	90-100% All formulas correct	
Column and row titles	60-70% Up to 6 errors	70-80% Up to 4 errors	80-90% Up to 2 errors	90-100% All rows and columns have correct titles, and spelling	