

The University Of Toledo

Existing Graduate Course Modification Form

* denotes required fields

Contact Person*: P. S. Sundararaghavan Phone: 530-2456 (xxx - xxxx) Email:
p.sundararaghavan@utoledo.

Present

Supply all information asked for in this column.
(Supply core, research intensive and transfer module info if applicable)

College*: College Business and Innovation ▼

Dept/Academic Unit*:

Info Operations and Tech Management ▼

Course Alpha/Numeric*: OPMT -
5510

Course Title:

Business statistics with Computer Applications

Credit hours: Fixed: 03 or Variable: to

CrossListings:

Insert

To add a course, type in course ID and click the Insert button.

To remove a course, select the course on left and click the Remove button.

Remove

Prerequisite(s)(if longer than 50 characters, please place it in Catalog Description):

Corequisite(s)(if longer than 50 characters, please place it in Catalog Description):

Proposed

Fill in appropriate blanks only where entry differs from first column.

College: College Business and Innovation ▼

Dept/Academic Unit:

Info Operations and Tech Management ▼

Course Alpha/Numeric: OSCM -
5510

Course Title:

Business Statistics with Computer Applications

Credit Hours: Fixed: 03 or Variable: to

CrossListings:

Insert

To add a course, type in course ID and click the Insert button.

To remove a course, select the course on left and click the Remove button.

Remove

Prerequisite(s)(if longer than 50 characters, please place it in Catalog Description):

Corequisite(s)(if longer than 50 characters, please place it in Catalog Description):

Catalog Description (*only if changed*) 75 words max: **Catalog Description** (*only if changed*) 75 words max:

The application of statistics to business problem solving. Topics include descriptive statistics, probability theory, confidence intervals, hypothesis testing, sampling, ANOVA, chi-square tests, regression and correlation analysis, and elementary concepts of data analytics.

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Has course content changed? Yes No

If course content is changed, give a brief topical outline of the revised course below(less than 200 words)

Proposed effective term*: (e.g. 201140 for 2011 Fall)

File Type	View File
Attachment	View
Syllabus	View

List any course or courses to be deleted.

Effective Date: 








Effective Date: 

Comments/Notes:

Rationale:

In general, Operations and Supply Chain Management is a better description of the program we are doing and the name for the undergraduate major was changed in 2015 along with all courses renamed and modified as needed to OSCM from OPMT. We are carrying out a similar process for the graduate courses. That is OPMT will be phased out and OSCM will be used for courses in the area offered by the department.

Approval:

Department Curriculum Authority:	<input type="text" value="Bassam Hasan"/>	Date	<input type="text" value="2017/04/10"/>
			
Department Chairperson:	<input type="text" value="P. S. Sundararaghavan"/>	Date	<input type="text" value="2017/04/11"/>
			
College Curriculum Authority or Chair:	<input type="text" value="Michael Mallin"/>	Date	<input type="text" value="2017/04/11"/>
			
College Dean:	<input type="text" value="Anand S. Kunnathur"/>	Date	<input type="text" value="2017/04/11"/>
			
Graduate Council:	<input type="text" value="Constance Schall, GC mtg 5/2/17"/>	Date	<input type="text" value="2017/05/03"/>
			
Dean of Graduate Studies:	<input type="text" value="Amanda C. Bryant-Friedrich"/>	Date	<input type="text" value="2017/05/04"/>
			
Office of the Provost :	<input type="text" value="marcia king-blandford"/>	Date	<input type="text" value="2017/05/10"/>
			

Administrative Use Only

Effective Date:  (YYYY/MM/DD)

CIP Code:

Subsidy Taxonomy:

Program Code:

Instructional Level:

Registrar's Office Use Only

Processed in Banner on:

Processed in Banner by:

Banner Subject Code:

Banner Course Number:

Banner Term Code:

Banner Course Title:



OSCM5510: BUSINESS STATISTICS WITH COMPUTER APPLICATIONS

**The University of Toledo
College of Business and Innovation
OSCM 5510**

Instructor:

E-mail:

Office Hours:

Office Location:

Term:

Catalog Description: The application of statistics to business problem solving. Topics include descriptive statistics, probability theory, confidence intervals, hypothesis testing, sampling, ANOVA, chi-square tests, regression and correlation analysis, and concepts of business analytics.

Course Objectives: After completing this course a student should be able to:

1. Organize, describe and summarize sets of business data
2. Understand basic concepts of probability theory and their use in decision making
3. Conduct, understand, and interpret tests of hypothesis.
4. Understand and interpret regression and correlation analysis
5. Understand elementary concepts of data analytics.
6. Apply statistical software

Prerequisites: None

Text: "Essentials of Modern Business Statistics with Microsoft Excel" by Anderson et al., 6th Edition, Cengage, 2015, ISBN – 13: 9781285867045 or ISBN – 13: 9781305410565. The rentals, e-Textbook and e-Chapters are available under www.cengagebrain.com. **Note:** Aplia or MindTap will not be used, so their access codes are not required.

Computer Software: Excel with Data Analysis. Data Analysis is installed on every computer in ST and SB buildings. To have the access to Data Analysis on your MS computer, install Excel's Add-In: Analysis ToolPak; you can watch: <https://www.youtube.com/watch?v=yNxLFagKgw>. **Note:** Most versions of MAC computers do not have capabilities of installing Data Analysis or have alternative statistical add-ins. However, you may get the access to Excel with Data Analysis through the UT Virtual Lab; see: <http://www.utoledo.edu/it/vlab/>

Course Materials: Chapter summaries, power point slides, a test bank, and lecture videos are available under UT Blackboard.

Policy Statement on Non-Discrimination on the basis of Disability (ADA)

The University is an equal opportunity educational institution. Please read [*The University's Policy Statement on Nondiscrimination on the Basis of Disability Americans with Disability Act Compliance*](#)

Academic Accommodations:

The University of Toledo is committed to providing equal access to education for all students. If you have a documented disability or you believe you have a disability and would like information regarding academic accommodations/adjustments in this course please contact the [Student Disability Services Office](#).

Academic Dishonesty:

As a student taking coursework in the COBI of UT, you have an obligation to maintain the highest standards of ethical conduct. All quizzes and assignments are individual, so they must be done and submitted independently. Any plagiarizing will result in no (zero) credit. Any violation of academic honesty will result in an F grade, plus additional disciplinary actions. For further clarification:

http://www.utoledo.edu/catalog/2000catalog/admissions/academic_dishonesty.html.

Grade Points:

On-site Midterm Exam	20 points
Final Exam	20 points
4 Computer Assignments (10 points each)	40 points
6 Quizzes (for 3-4 points each)	20 points

An on-site (or proctored) midterm exam is required to complete this on-line course. (All online classes administered by the IOTM Department require at least one on-site exam.) The exam can be taken in the UT (Main Campus) Testing Center during the days specified in the course schedule; see

<http://www.utoledo.edu/uc/testingservices/MCTestcenter.html>.

This 2 hour, paper and pencil, closed book and notes exam will have 40 multiple-choice questions on Chapters 1-8 for 0.5 each. Formula sheets and needed tables will be provided, and the use of any type of calculators is permitted. **Note.** If for some reasons you cannot be present in Toledo to take the midterm exam, you are obligated to arrange a proctored exam; see: <http://www.utdl.edu/lv/proctor/student.php> . In particular, you are expected to complete the proctor form within the first 2 weeks of classes.

General Course Policy:

You are required to study the assigned sections of the textbook on time; i.e., during weeks specified in the course schedule. The quizzes will be open for at least 3 days period before their due dates. Once you open the quiz, you will have a specified amount of time to complete it. Only one attempt will be allowed. If you miss a deadline without any objective reasons (e.g. documented serious emergency), you will receive no credit.

Extra Credit Policy:

Extra credit assignments may be only given to the entire class in the case when the average class performance is significantly less than expected. Therefore, please do not ask for any individual work for extra credit.

Tentative Grading System:

A [93,100], A- [90,93), B+ [87,90), B [83,87), B- [80,83), C+ [77,80), C [73,77), C- [70,73), D+ [67,70), D [63,67), D- [60,63)

COURSE SCHEDULE

Week	Date	Readings and Work Due
1	1/9-1/14	Chapter 1. Data and Statistics
2	1/17-1/21	Chapter 2. Descriptive Statistics: Tabular and Graphical Displays (2.1 – 2.4) Due: Quiz 1 on Chapters 1-2, January 21, 11:59 pm
3	1/23-1/28	Chapter 3. Descriptive Statistics: Numerical Measures (3.1 - 3.5) Due: Computer Assignment 1, January 28, 11:59 pm
4	1/30-2/4	Chapter 4. Introduction to Probability (4.1 – 4.4) Due: Quiz 2 on Chapter 4, February 4, 11:59 pm
5	2/6-2/11	Chapter 5. Discrete Probability Distributions (5.1 – 5.4) Due: Quiz 3 on Chapter 5, February 11, 11:59 pm
6	2/13-2/18	Chapter 6. Continuous Probability Distributions (6.1 – 6.2) Due: Computer Assignment 2, February 18, 11:59 pm
7	2/20-2/25	Chapter 7. Sampling and Sampling Distributions (7.1 – 7.6) Due: Quiz 4 on Chapter 6-7, February 25, 11:59 pm
8	2/27-3/4	Chapter 8. Interval Estimation
	3/6-3/11	Spring Break Due: Midterm Exam, March 1 – March 10, UT Testing Center
9	3/13-3/18	Chapter 9. Hypothesis Tests (9.1 – 9.3)
10	3/20-3/25	Chapter 9. Hypothesis Tests (9.4 – 9.5) Due: Quiz 5 on Chapter 9, March 25, 11:59 pm
11	3/27-4/1	Chapter 10. Comparisons Involving Two Means (10.1 – 10.3) Due: Computer Assignment 3, April 1, 11:59 pm
12	4/3-4/8	Chapter 10. Experimental Design, and Analysis of Variance (10.4 – 10.5) Due: Computer Assignment 4, April 8, 11:59 pm
13	4/10-4/15	Chapter 11. Test of Independence (Section 11.3) Introduction to Business Analytics (not in the textbook)
14	4/17-4/22	Chapter 12. Simple Linear Regression (12.1 – 12.7)
15	4/24-4/29	Chapter 13. Multiple Regression Due: Quiz 6 on Chapter 13, April 29, 11:59 pm
16	Exam Week 5/2-5/5	Due: Final Exam, May 5, 11:59 pm



OSCM5510: BUSINESS STATISTICS WITH COMPUTER APPLICATIONS

The University of Toledo
College of Business and Innovation
OSCM 5510

Instructor:

E-mail:

Office Hours:

Office Location:

Term:

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