

Aczel, Amir D., and Jayavel Sounderpandian. 2009. [*Complete Business Statistics*](#), 7th edition. Boston, Massachusetts: The McGraw-Hill Companies, Incorporated.

Anderson, David R., Dennis J. Sweeney, and Thomas A. Williams. 2011. [*Statistics for Business and Economics*](#), 11th edition. Mason, Ohio: Thomson South-Western.

For availability of these and other materials at the campus bookstore, see their [web site](#).

Excellent instructional applets are available at <http://www.kuleuven.ac.be/ucs/java/index.htm>.

Student Evaluation:

First examination	Fourth week of class	35%
Second examination	Last week of class	35%
Homework team assignments	throughout	25%
On-line participation	throughout	5%

Grades will be computed to a scale of 1000. For example, suppose the first examination contains questions totaling 100 points. Its percentage weight of 1000 is 35, so your score would be multiplied by 3.5. If the first examination contains questions totaling 80 points, your score on it would be multiplied by 4.375.

Students are allowed to, and indeed encouraged to, work in teams of 2 or 3 on homework problems. All homework problems must include a summary of findings as well as any computer printout that may be pertinent. The summary report must bear electronic “signatures” of students on the team producing it (the Canvas “group definitions” will handle this detail); all students on that team will receive the same grade for that homework. Your “signature” on the homework is your assurance to me that you have participated in obtaining and understand the solution as presented therein -- it is vital that *each* student on a team participate actively in the solving of *each* exercise. Homework problems will require application of the chapter concepts studied and discussed in class. Timely, thoughtful completion of these problems is a *sine qua non* to good performance on the examinations, both of which will contain similar problems.

Attendance Policy:

Regular on-line participation is expected, and is urgently necessary to achieve mastery of the course material. As stated above, “class” (on-line) participation is a factor helping to determine your course grade. Late work will be penalized proportionate to the length of delay (documented extenuating circumstances excepted).

Academic Integrity:

The University of Michigan-Dearborn values academic honesty and integrity. Each student has a responsibility to understand, accept and comply with the University's standards of academic conduct set forth by the Code of Academic Conduct, as well as policies established by schools and colleges. ***Cheating, collusion, misconduct, fabrication and plagiarism are serious offences and will result in failure in the course.***

Here are links to [UMD](#) and [COB](#) policies on academic integrity.

Course Topics:

Text	Topic
Chapters 1-10	Very rapid review of prerequisite material
Chapter 11	ANalysis Of VAriance (ANOVA)
Chapter 12	Chi-Square tests and non-parametric tests
Chapter 13	Simple linear regression (largely review)
Chapter 14	Multivariate regression
Chapter 15	Multivariate regression continued – nonlinear regression

Chapter 16	Time-series forecasting
Chapter 17	Quality management
?	Ancillary topics chosen by time available and class interest

Approximate Course Schedule:

Week/Session	Topics	Source
1, 1	Review of chapters 1-5	Berenson et al. chapters 1-5
1, 2	Review of chapters 6-10	Berenson et al. chapters 6-10
2, 1	One-way ANOVA	Berenson et al. chapter 11
2, 2	Two-way ANOVA	Berenson et al. chapter 11
3, 1	Chi-square tests for proportions	Berenson et al. chapter 12
3, 2	Chi-square test for independence	Berenson et al. chapter 12
4, 1	The non-parametric McNemar, Wilcoxon rank sum, and Kruskal-Wallis rank tests	Berenson et al. chapter 12
4, 2	Simple linear regression, part 1	Berenson et al. chapter 13
5, 1	Simple linear regression, part 2	Berenson et al. chapter 13
5, 2	Multiple regression, part 1	Berenson et al. chapter 14
6, 1	Multiple regression, part 2	Berenson et al. chapter 14
6, 2	Multiple regression, part 3	Berenson et al. chapter 14
7, 1	Review for first examination	Review materials
7, 2	First examination	
8, 1	Multiple regression model building, part 1	Berenson et al. chapter 15
8, 2	Multiple regression model building, part 2	Berenson et al. chapter 15
9, 1	Time-series forecasting, part 1	Berenson et al. chapter 16
9, 2	Time-series forecasting, part 2	Berenson et al. chapter 16
10, 1	Time-series forecasting, part 3	Berenson et al. chapter 16
10, 2	Quality management, part 1	Berenson et al. chapter 17
11, 1	Quality management, part 2	Berenson et al. chapter 17
11, 2	Quality management, part 3	Berenson et al. chapter 17
12, 1	Open for additional topics	X
12, 2	Open for additional topics	X
13, 1	Open for additional topics	X
13, 2	Review for second examination	X

14, 1	Review for second examination	Review materials
14, 2	Second examination	

The above is a general plan; I will make adjustments as necessary.