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Spring 2-1-2014

BMIS 650.01: Quantitative Analysis

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	MIS 650
School of **BUSINESS ADMINISTRATION** The University of Montana–Missoula	**Quantitative Analysis** **Spring Semester 2014**

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Office Hours: MW 12:30-1:30 pm

Resources:

IBM SPSS Grad Pack (available from vendors at the link below)
http://www-01.ibm.com/software/analytics/spss/products/statistics/gradpack/

Various Reading Posted on Moodle

Course Objectives: The first and primary goal of this class is to help students think correctly about quantitative information and how it is used and potentially misused. The Alan Greenspan book and the two articles by Kahneman and Tversky will address this issue. The second goal of the course is to provide students with some understanding of "Big Data"; the two IBM documents will address this. The third goal of the course is to provide students with some hands-on experience with business analytics in a software environment that they will likely encounter. Microsoft Excel is certainly ubiquitous but its quantitative analysis capabilities are limited and cumbersome. With the recent purchase by IBM of SPSS (Statistical Package for the Social Sciences) and their positioning of the product as a tool for business analytics; I think this software environment has a significant future in the area of quantitative analysis in business. The full version is available for under $100 (it's a 12-month license) to college students. See the IBM link above and the four vendors in the right-hand frame. We will lean how to think about quantitative phenomena and how to crunch some numbers.

Evaluation: The evaluation in the class will be through cases that require you to analyze data, come to conclusions and answer questions based on quantitative data.

A 93% and above	B - 80% to 82%	D+ 67% to 69%
A- 90% to 92%	C+ 77% to 79%	D 63% to 66%
B+ 87% to 89%	C 73% to 76%	D- 60% to 62%
B 83% to 86%	C- 70% to 72%	F Below 60%

Week 1: March 3, 5	K and T Readings, Descriptive Statistics
Week 2: March 10, 12	Big Data Readings, and Descriptive Statistics
Week 3: March 17, 19	Cross Tabulation/Tables (Assessment 1)
Week 4: March 24, 26	Regression
Week 5: April 7, 9	Regression
Week 6: April 14, 16	Regression (Assessment 2)
Week 7: April 21, 23	Forecasting
Week 8: April 28, 30	Forecasting
Week 9: May 5, 7	Forecasting (Assessment 3)
Week 10 May 12 (11:10-1:10 and 6:10-9:00)	Conclusion

Assignments: Students will complete three assessments. Each assessment will involve an analysis of a data set and an understanding of the meaning and application of the analysis. Each assessment will be worth 1/3 of your final grade.

Mission Statement: The University of Montana's School of Business Administration is a collegial learning community dedicated to the teaching, exploration, and application of the knowledge and skills necessary to succeed in a competitive marketplace.

As directed by the Provost, the following paragraph is to be inserted in all syllabus material:

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at http://www.umt.edu/SA/VPSA/index.cfm/page/1321.