ISC 215
Business Programming and Data Analysis Tools

ISC 215-800 ***Blackboard enhanced Spring 2017***

Instructor: Michael L Smith

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Blackboard Login URL: https://oswego.open.suny.edu
Sample Blackboard Login
Email:jones@oswego.edu
Login:jones
Password=email password

Course Description

An overview of Data Analysis Tools and Techniques such as programming languages R and Python and using Advanced Excel. A summary of Text and web mining, and the application of selected data mining techniques to business decision making situations will be illustrated. Students will be participating in data mining exercises. Data Visualization techniques will be discussed to illustrate methods for displaying results of reports, and data mining analysis.

Course Objectives

Upon successful completion of the course, the student will be able:

- To demonstrate understanding of the processes used to develop, report, and analyze business data
- To demonstrate understanding of how to use business analytics to formulate and solve business problems and to support managerial decision making
- To use and apply selected business analytics tools.
- Be prepared for the Microsoft Excel Certification

My IT Lab Access Code will be required. The required e-text comes with the access code at no additional cost.

Microsoft Excel labs will be completed on My IT Labs.
Note: This Activation package can be purchased in the bookstore.

Required e-Text (this e-text comes with the MyITLabs access code)

• Title: Exploring Microsoft Excel 2016 Comprehensive **with** MyITLab package
Authors: Poatsy, Mulbery, Davidson & Grauer.
Edition: 1st Edition
Publisher: Pearson

Suggested text

Conrad Carlberg, (2016) R for Microsoft Excel Users: Making the Transition for Statistical Analysis. Que.

Readings may be assigned from the following texts.

- Gardener, Mark. (2016) Beginning R. [Electronic Resource]: The Statistical Programming Language. n.p. John Wiley & Sons
- Tony Gaddis,(2015)Starting out with Python Third Editon. Pearson

Prerequisites

Successful completion of CSC 102

Evaluation:

Data Analysis Project	15%
Mid-Term	20%
Labs	25%
Quizzes &Course Assignments	10%
Final Examination	25%
Attendance	5%

Examinations and assignments will be based upon material covered in class, as well as readings from the E-textbook. It is expected that students will attend class regularly. No make-up exams will be given without a documented, legitimate excuse (such as a personal or family medical emergency). Assignments must be completed in a timely fashion. Late assignments will receive a reduction in grade.

Students successfully completing this course will be prepared for the Microsoft Excel Certification. Microsoft Excel Certification is separate and not done as part of this course.

Personal Responsibility:

It is expected that the student will assume responsibility for his/her performance in the course. Hence, it is incumbent on the student to bring any problems that he/she might be having in completing the required course work to the attention of the instructor as soon as possible.
In addition, the student should be aware of the Computer Science Department's policies on assignments and on cheating.
Please read the policies (which are also located in course documents) carefully.
Students caught signing the attendance sheet for another student are cheating and will be dealt with accordingly.

Beware Blackboard logs all activity.
Missed work may be made up **only** in cases of **verifiable** emergencies or excused absences.
Each student will be assigned a letter grade on the basis of his/her total percentage, rounded up to the nearest percent. The following breakdown of plus/minus grades will be used.

	A = 93-100%	A-=90-92%
B+ = 87-89%	B = 83-86%	B- = 80-82%
C+ = 77-79%	C =73-76%	C- = 70-72%
D+ =67-69%	D = 63-66%	D- = 60-62%
	E = 0-59%	

Intellectual Integrity

Intellectual integrity on the part of all students is basic to individual growth and development through college course work. When academic dishonesty occurs, the teaching/learning climate is seriously undermined and student growth and development are impeded. For these reasons, any form of intellectual dishonesty is a serious concern and is therefore prohibited.
Also basic to the teaching/learning process in college course work is the authority of the course instructor to assign a grade to indicate the quality of student achievement.

Integrity Violations

When any students submit the work of another student for a grader assignment this results in a zero for both the submitting student and the student providing the lab that was submitted.

Attendance Policy

Attendance is **Mandatory.** Each student is **required** to sign the daily attendance sheets. Five points may be subtracted from the final average for students with excessive unexcused absences from class. Ten + absences will lose a letter grade.

Five unexcused Absences	-1 point from Attendance/Participation
Six unexcused Absences	-2 points from Attendance/Participation
Seven unexcused Absences	-3 points from Attendance/Participation
Eight unexcused Absences	-4 points from Attendance/Participation
Nine unexcused Absences	-5 points from Attendance/Participation
Ten unexcused Absences	Loss of 5 points + loss of a letter grade

Additional Notes

Students will need access to the Internet and an active gmail or Oswego.edu account.

Students with Disabilities:

Those students who need special consideration for whatever reason should notify the Office of Disability Services at the beginning of the semester.

Policies:

1. Assignments will **NOT** be accepted beyond the due date.
2. Students must try to resolve questions regarding labs with their lab assistant before bring them to the instructor.