Advanced Spreadsheet Analysis

I. General Information

Course Number          ACCT 634
Title                   Advanced Spreadsheet Analysis
Units                   4.0
Prerequisites           MAC Standing
Course Coordinator
SCO Prepared by        Rod Smith
Date prepared/revised  March 2013

II. Catalog Description

This course presents advanced spreadsheet analysis techniques such as pivot tables, simulations, programming with visual basic, and the use of macros to solve accounting-related problems.

III. Curriculum Justifications

This course provides MAC students, especially those selecting the AIS concentration, with the knowledge and skills necessary to participate effectively in the management and design of database systems within an organization. It enables development of the skills necessary to solve complex business problems and support management decision-making with respect to enterprise database systems. Additionally, it offers students an opportunity to design, build and use information from an enterprise database system.

This course addresses the following CBA graduate learning goals.

1. Critical Thinking: Students will be able to demonstrate learning, critical thinking, and problem-solving skills. More specifically, students will be able to understand:
   a. How to analyze data with EXCEL to support management’s decision-making requirements.
   b. Use programming to customize EXCEL applications.
2. Quantitative and Technological Skills: Students will develop technical skills in the use of spreadsheet tools.
3. Accounting-Specific Learning Goals: Students will be able to design and use advanced spreadsheet techniques to produce accounting and other management information. Students will also be able to understand the risks and internal control issues involved with reliance on spreadsheets for critical accounting information.

**IV. Course Objectives**

Specific goals of this course include the following:

1. Understand best practices in financial model development.
2. Understand and apply advanced spreadsheet tools following the appropriate mechanics of model development.
3. Understand and apply optimization techniques, such as Solver.
4. Make sense out of chaotic data by applying various sorting techniques and conditional formatting.
5. Understand and apply Pivot Tables.
6. Use visual basic to develop custom functions and interfaces.

**VI. Subject matter topics**

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<th>Module</th>
<th>Concept</th>
<th>Active Learning Tools</th>
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<td>Overview of EXCEL and financial model development</td>
<td>Exercises</td>
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<td>Structuring problems for model assurance; key functions; goal seeking; sorting and conditional formatting</td>
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<td>Optimization tools</td>
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<td>Pivot tables; OLE tools</td>
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<td>Programming with Visual Basic</td>
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**VI. Methods of Instruction**

This course is taught through lecture and class discussion of concepts and applications, case analysis and discussions, as well as computer-based simulations. Active interaction between the instructor and students is encouraged. The instructor will make appropriate use of corporate financial reports, group work, and a comprehensive project to enhance the learning process.

Instructors in planning the exams, and other grading procedures, should adhere to the relevant University Policy on “Grades, Grading Procedures, and Final Assessments, Final Course.”
The textbooks for this course should be chosen in accordance with the University Policy on textbooks. There are a number of appropriate textbooks for this course. The following suggestion is based on the special nature of a MAC course:

- Students will arrive at this course with a background in accounting.
- Students will have a level of maturity that will enable them to look at a broader picture via more advanced cases, simulations, group projects.
- Any textbook used for this course must be a graduate level textbook.
- Student knowledge should be evaluated using case studies and a variety of demanding projects.
- Examinations must be essay-type and/or problem solving questions and not use multiple-choice questions.

VII. Instructional Policy Requirements

The students are expected to comply with the universally accepted norms of considerate and courteous behavior, and with all University rules and policies found in the current University Catalog, including the Withdrawal Policy and Policy on Cheating and Plagiarism.

Students shall attend classes regularly and be responsible for all materials covered in class, regardless of their attendance. Make-up exams are strongly discouraged and will only be given with documented proof of an excused absence. The student should give earliest possible notification of an anticipated excused absence. The students refer to the specific university policy on these issues.

Instructors may adjust course assignments when necessary. The students should be notified about any changes and, whenever possible, consulted in advance about any changes.

Students with Disabilities: Students with disabilities are responsible for notifying their instructor as early as possible of their needs for an accommodation of a verified disability. A student with a disability is urged to consult with Disabled Student Services as soon as possible in order to identify possible accommodations to enhance academic success.