

# DECISION MODELING

## Western Kentucky University

### Spring – 2017 – Management 313

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*Please note that the best way to contact me with questions or to request an appointment is via email be sure to indicate how and when you can be reached.*

#### **COURSE DESCRIPTION:**

The course is an introduction to quantitative techniques that are used as aids in decision-making. The class material will include both theory and practical application of decision modeling for organizations. This course deals with modeling problems that are similar to those faced by business managers. The problem is viewed as the focal point of analysis, and appropriate decision modeling tools are applied to obtain a solution. At the completion of this course, the student will have studied the major topic areas within the field along with the challenges and opportunities for managers as they seek to apply Modeling principles within organizations.

**MEETING TIMES:** 5:30PM – 8:15 PM Tuesday (Central Time)

**TEXT:** Hillier & Hillier, *Introduction to Management Science: A Modeling and Case studies Approach with Spreadsheets*, 5<sup>th</sup> edition, McGraw Hill.

#### **METHOD OF PRESENTATION:**

Lectures, presentations, team assignments, class activities (group work), class discussions and individual projects will be used to present theory and develop methods to model management problems / calculate solutions / analyze results / implement changes. Mini-cases and experiential exercises will be used for discussion and synthesis of material.

#### **GENERAL OBJECTIVES**

The primary objective of this course is to produce graduates that can more effectively serve the needs of society and industry through application of decision modeling theory and concepts. Specifically, course materials are designed such that, upon completion of the course, the student should be able to:

- Developing the students' critical thinking and problem solving skills.
  - These skills will be developed in the context of problems arising in business and industry.
- Excel spreadsheet will be used in modeling these problems.
- Competencies that will be developed/enhanced are:
  - understand data and statistics,
  - think creatively and analytically
  - learn and use Excel spreadsheet processing skills
  - apply management theories using a quantitative basis

#### **ASSESSMENTS:**

MODELING course uses a participatory, adult education, student learning-centered approach. This approach recognizes that **YOU** are responsible for your own learning. The instructor can only provide **opportunities** to learn. You are expected to work hard in this course and should spend at least **two to three hours** of preparation outside of class for each hour spent in class. Student performance will be assessed in several ways during the term.

**Grading** is expected to be based on homework and three exams. The homework will account for 20% of your final grade and the other 80% will come from three exams. No make-up exams will be given unless backed by valid reason(s) and proofs. Late homework will not be accepted or will receive reduced credit.

- A** - 90% and above
- B** - 80%-89%
- C** - 70%-79%
- D** - 55%-69%
- F** - Below 54%

## **COLLEGIAL EDUCATION PRINCIPLES:**

**Academic Honesty:** Offenses include academic dishonesty, plagiarism, cheating, and other types of activities as are discussed in the Western Kentucky University catalog. Such offenses will be dealt with in a serious manner consistent with the guidelines in the catalog. You are also referred to the “Student Life Policies Statement on Student Rights and Responsibilities” of the catalog.

### ***Expected Behavior:***

**Please arrive on time for class.** Your ability to pass this course is greatly improved by attending class and participating in class on a regular basis.

*Assignments* are due at the start of class on assigned due dates. Details of assignments will be given in class as dictated by content and topic of study. Assignments must be delivered through Blackboard unless otherwise specified by the professor. If you must miss class, it is YOUR responsibility to contact a fellow student and Blackboard for assignments or notes. Written assignments may be turned in early, but not late. Each written assignment is to be typewritten and free from grammatical and spelling errors (errors will result in lower grade). Student work may be checked using plagiarism detection software.

*Attendance:* I will take attendance on a random basis, and I will deduct points for excessive absences. I will stop grading after 7 absences.

*Exams:* The exams will cover the material discussed in class, homework, and the **assigned reading**.

## **NOTES:**

*Changes to Syllabus:* The syllabus may be modified at any time. The changes will be announced during class and on Blackboard. You are responsible for ensuring that your syllabus is current.

*Students with disabilities:* In compliance with university policy, students with disabilities who require accommodations (academic adjustments and/ or auxiliary aids or services) for this course must contact the Office for Student Disability Services in Downing University Center A-200. The phone number is 270-745-5004; TTY is 745-3030. Per university policy, please do not request accommodations directly from the professor or instructor without a letter of accommodation from the Office for Student Disability Services.

*Non-discrimination:* Western Kentucky University does not discriminate on the basis of race, sex, religion, color, national or ethnic origin, age disability, sexual orientation or military service. Inquiries or comments regarding these issues should be directed to the Director of Equal Opportunity /504/ ADA Compliance, Western Kentucky University, 1906 College Heights Blvd., Bowling Green, KY 42101, telephone 270-745-5121, TTY 270-745-3030.

**Turn off all beepers and cell phones before coming into the classroom.**

This is particularly important in an IVS class. Simply placing your phone on vibrate is not sufficient. Active phones result in static in the broadcast as they search for service.

*Students will need to use Blackboard extensively. In order for students to receive important emails from the professor, they must keep their email address current on TOPNET. Students are strongly encouraged to obtain their WKU photo id for their personal benefit and to enhance instructor identification.*