

**Huntingdon College
Adult Degree Completion Program**

**COURSE NUMBER: MGMT330
COURSE NAME: Project Management
Spring 2009, Session II, Shelby**

INSTRUCTOR'S NAME: James DeLoach

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COURSE DESCRIPTION: The course will cover linear programming, project scheduling using CPM and PERT, and inventory methods. The linear programming will include the graphical solutions but emphasis will be on the interpretation of computer generated output. Applications in Marketing, Finance and Production Management will be discussed. Only a rudimentary introduction to CPM/PERT and inventory models will be attempted.

PREREQUISITE: BUS329 with a grade of C or higher

TEXT REQUIRED: Anderson, Sweeney and Williams, An Introduction to Management Science (with CD), Thompson/Southwestern (**see Huntingdon College booklist for edition and ISBN**)

COURSE LEARNING OUTCOMES:

COURSE ASSIGNMENTS & GRADING CRITERIA:

Grading Elements	Percentage:
Weekly Assignments and Homework	50%
Final Exam	45 - 50%
Class Participation	0 - 5%
Total Points	100%

GRADE POINT EQUIVALENTS - Describe the point range for each letter grade.

A = 75 -100
B = 60 - 74
C = 50 - 59
D = 40 - 49
F = below 40

ATTENDANCE POLICY:

Absences and Tardiness – All students are required to attend the first session. Those who do not attend the first session will be automatically dropped from the course. Students with more than one absence will receive an "F" for the course. Since this class meets only five times, missing a single class meeting is equivalent to missing three weeks of a regular term. If you cannot attend a class you must let the instructor know via

email as soon as possible. In case of absences you are responsible for obtaining all handouts and assignments. Tardiness may result in a deduction in your class participation grade. Excessive tardiness may count as an absence.

Participation –Participation is not the same as attendance. Participation requires students to come to class prepared to actively participate, which makes the classroom experience more meaningful. However, participation is not just speaking out in class. The contributions made by the student should be related to the course content and meaningful to the class discussion.

Late Assignments – Explain whether late assignments will be accepted and what penalty might be imposed if the assignment is late. Also specify what assignments can be turned in late. This will allow the student to make informed decisions.

Accommodation of Special Needs- Huntingdon College makes every reasonable accommodation for disabilities that have been processed and approved through our Disability Services Committee in accord with the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. In order to request disability-related services at Huntingdon College, students must self-identify to the Disabilities Intake Coordinator, Camilla Irvin, and provide appropriate and up-to-date documentation to verify their disability or special needs. After the accommodations have been approved by the Disability Services Committee, the 504 Coordinator, Dr. Lisa Olenik, will notify your professor(s) of the committee's decision. If you have any questions regarding reasonable accommodation or need to request disability-related services, please contact Disability Services at (334) 833-4432 or e-mail at disabilityservices@huntingdon.edu.

Academic Honesty –Plagiarism is literary theft. Failure to cite the author of any language or of any ideas *which are not your own creation* is plagiarism. This includes any text you might paraphrase, as well. Anyone is capable of searching the Internet or any printed media; your research paper is intended to broaden your knowledge, stimulate your creativity, and make you think, analyze, and learn. It is not consistent with the College Honor Code, nor with scholarly expectations to submit work which is not the product of your own thinking and research. Severe penalties will result upon the submission of any work found to be plagiarized, including potential failure of the entire course. It is easy and simple to properly cite all sources used in your paper. Take no risks – cite your sources.

Week 1: Introduction to Linear Programming

This portion of the module is an introduction to linear programming. Upon completion students will be able to:

1. Formulate an objective function to be used to either maximize profit or minimize costs
2. Develop a system of inequalities and unknowns which represent the constraints
3. Mathematically state the problem using items (1) and (2) above and graph the feasible region
4. Test the corner points of the feasible region in the objective function to determine an optimal (either minimum or maximum) solution
5. Understand how to introduce slack (and surplus) variables to the inequalities in item (2) to form equations

6. Identify unsolvable problems in linear programming due to infeasibility and unboundedness

Week 2: Linear Programming Applications in Business and Interpretation of Computer Generated Output

This portion of the module focuses on linear programming applications in business as well as generation and interpretation of computer output. Upon completion students will be able to:

1. Formulate an objective function to be used to either maximize profit or minimize costs
2. Develop a system of inequalities and unknowns which represent the constraints
3. Use linear programming computer software, e.g. Management Scientist, to solve problems in marketing, finance, production scheduling
4. Interpret computer solutions of LP problems and perform sensitivity analyses.

Week 3: CPM (Critical Path Method) and PERT (Program Evaluation and Review Technique)

This portion of the module is an introduction to CPM/PERT networks. Upon completion students will be able to:

1. Identify individual jobs or activities that make up a project and be able to draw the corresponding ordered network with completion times
2. Identify critical paths and the earliest start and finish times for individual jobs and the entire project
3. Understand networks with uncertain activity times and understand the concept of time-cost trade-off.
4. Understand how to “crash” activity times; that is, given extra money or man-power, where are these resources best invested within the project to reduce the over-all completion time.

Week 4: Inventory Models and Review of Previous Topics

This portion of the module is an introduction to inventory models. Upon completion students will be able to:

1. Understand and utilize the Economic Order Quantity Model (EOQ).
2. Appreciate the overall use in business LP, CMP/PERT, and inventory models

Week 5: Final Comprehensive Exam

Assigned Homework:

Week 1

Read Chapters 2.1 – 2.7

Homework due for week 2: 2.11, 2.13, 2.15, 2.22, 2.33, 2.35

Week 2

Read Chapters 3.1 – 3.3, 4.1 – 4.3

Homework due for week 3: 2.41, 2.39, 3.7, 3.8, 3.11

Week 3

Read Chapter 9.1, 9.2

Homework due for week 4: 4.3, 4.8, 4.17, 9.7, 9.15, 9.18

Week 4

Read Chapter 10.1

Homework due prior to week 5: 10.9,

Review sample exam in preparation for final

Week 5

Final comprehensive Exam, no homework.