
Central Michigan University
College of Business Administration

MASTER COURSE SYLLABUS

<u>BIS</u>	<u>221</u>	<u>Computers in Business I</u>	<u>3 (3-0) F, SP, SU</u>
Design.	No.	Title	Credit (Mode)

- I.** Bulletin Description:
The management-oriented study of computer information systems in business, including model building and decision support. Includes coverage of leading software packages used in business.
- II.** Prerequisites:
26 credits completed with 2.0 minimum g.p.a.; MTH 105 or ACC 201 or corequisite: ACC 201.
- III.** Rationale for Course Level:
Computer literacy and proficiency provide strong preparation for a manager=s career. The computer pervades business at every level. Literacy indicates the manager understands what the computer can do, and its influence on business and society. Proficiency reflects the ability to use the computer competently as an information tool. Computer literacy and proficiency generate a synergy needed to cope with complex decisions in a systemic fashion. Students require computer literacy at the outset of pursuing a business major or minor since they will use the concepts and techniques throughout their program.
- IV.** Textbooks and Other Materials To Be Furnished by the Student:
Nickerson, Robert. *Business and Information Systems*. 2nd Edition, 2001. Prentice-Hall, Inc. Upper Saddle River, NJ. 07458
- V.** Special Requirements of the Course:
N/A
- VI.** General Methodology in Conducting the Course:
Various learning techniques are used in this class: business problems are presented as projects for in-class group and work, class discussion, short lecture, case studies and individual assignments, A hands-on laboratory component is used for solving business problems using computer technology.
- VII.** Course Objectives:

Upon completion of this course, students will be able to:

1. understand and discuss the components of a management information system;
2. explain standard applications such as transaction processing and decision support;
3. analyze basic business computer needs by applying system development concepts;
4. differentiate between sequential and direct access files, and explain the concepts of database processing;
5. employ personal productivity tools for developing models to solve business problems.

VIII. Course Outline:

Week Topic

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|-------|---|
| 1 | Introduction to systems concepts and information systems in business |
| 2 | Business fundamentals |
| 3 | Information system fundamentals |
| 4 | Hardware |
| 5 | Software and computing languages |
| 6 | Information system networks/the Internet |
| 7-8 | Data management |
| | File processing |
| | Databases |
| 9 | Problem solving |
| | Data storage/Database management systems |
| 10 | Information system support for group collaboration |
| 11 | Business operations |
| | Transaction processing systems |
| | Basic business information systems |
| 12 | Role of information systems in global business |
| 13-14 | Information systems development |
| | Introduction to the systems development life cycle, analysis and design tools |
| 15 | Managing information systems |
| 16 | Final exam |

IX. Evaluation:

Examinations (4)	40%
Laboratory assignments	30%
Homework assignments	<u>30%</u>
	100%

X. Bibliography:

- Applegate, Lynda M., F. Warren McFarlan and James L. McKenney. *Corporate Information Systems Management : The Challenges of Managing in an Information Age*. Boston : Irwin/McGraw-Hill, c1999.
- Boar, Bernard H. *The Art of Strategic Planning for Information Technology*. New York : J. Wiley, c2001.
- Grimshaw, David J. *Bringing Geographical Information Systems into Business*. New York : John Wiley, c2000.
- Harmon, Paul, Michael Rosen and Michael Guttman. *Developing E-Business Systems & architectures : a manager's guide*. San Francisco : Morgan Kaufmann Publishers, 2001.
- Hicks, J. O., Jr. *Management Information Systems. A User Perspective*, 3rd Edition. St. Paul, MN: West, 1993.
- Kroenke, D and R. Hatch. *Business Information Systems. An Introduction*, 5th Edition. New York, NY: McGraw-Hill, 1993.
- Laudon, K. C. and J. P. Laudon. *Information Systems: A Problem-Solving Approach*. 3rd Edition. Fort Worth, TX: Dryden Press, 1995.
- Martin, E. W., D.W. DeHayes, J.A. Hoffer and W.C. Perkins. *Managing Information Technology: What Managers Need To Know*. 2nd Edition, New York, NY: Macmillan, 1994.
- McLeod, R. Jr.. *Management Information Systems: A Study of Computer-Based Information Systems*. 5th Edition, New York, NY: Macmillan, 1993.
- McLeod, R. Jr.. *Information Systems Concepts*. New York, NY: Macmillan Publishing, New York, 1994.
- Murphy, Tony. *Achieving Business Value from Technology : A Practical Guide for Today's Executive*. Stamford, Conn.: Gartner Press ; Hoboken, N.J. : J. Wiley, c2002.
- O'Brien, J. A. *Management Information Systems: Managing Information Technology*. 3rd Edition, Homewood, IL: Irwin, 1996.
- O'Brien, J. A. *Introduction to Information Systems*. 7th Edition, Burr Ridge, IL: Irwin, Burr Ridge, 1994.
- Prakken, Bart. *Information, Organization, and Information Systems Design : An Integrated Approach to Information Problems*. Boston : Kluwer Academic

Publishers, c2000.

Price, K. C. and J. Price Laudon. *Business Information Systems: A Problem Solving Approach*. 2nd Edition, Fort Worth, TX: Dryden Press, 1993.

Rochester, J. *Computers: Tools for Knowledge Workers*. Homewood, IL: Irwin, 1993.

Rethinking Management Information Systems [computer file] : An Interdisciplinary Perspective. Editors: Wendy Currie and Bob Galliers. New York, NY: Oxford University Press, 1999.

(An electronic book accessible through the World Wide Web. Access Park Library catalog for information)

Syllabus Prepared by: Elizabeth Kemm

Signature

March 25, 2003

Date