CBIS 251 - INFORMATION MANAGEMENT APPLICATIONS
1998/1999 (Spring Semester)

Course Code **:** CBIS 251 – 002 & 003
Lecture Schedule : Class 002 (Mon. & Thurs. 15:30 - 16:50) – T101
Class 003 (Tue. & Fri.   12:30 - 13:50) – B406
Instructor : Dr. Duarte Trigueiros (L410, Ext.735; E-mail: fbadt@umac.mo)
Teaching Assistant : Kevin Sun (Rm: L427, Ext.742; E-mail: fbawhs@umac.mo)

COURSE DESCRIPTION

This course is designed to provide the students with the various aspects of information technology needed to understand the relationship between technical advances and the changing nature of business processes. At the completion of this course, students are expected to have knowledge on the role of information technology, and the methods on planning, building and managing an information system.

COURSE OBJECTIVE

The objective is to help students to recognize, describe, analyze and design information systems from a business professional's viewpoint.

TEXTBOOK

Information Systems: _A Management Perspective,_

Steven Alter, 2nd edition, The Benjamin/Cummings Publishing Company, Inc. 1996.

COURSE OUTLINE

1. Human and Ethical Issues
    Systems and Ethics

2. Software and Programming
    Types of Software
    Programming Viewed as a Business Process
    Four Generations of Programming Languages
    Other Major Developments in Programming

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3. Telecommunications and Networks
    Applying Telecommunications in Business
    Functions and Components of Telecommunications Networks
    Types of Networks: A User's Viewpoint
    Telecommunications Standards
    Telecommunications Policy

4. Steps Toward Computer Intelligence: Making Systems "Smarter"
    Applying Expert Systems to Use Knowledge More Effectively
    Applying Neural Networks to Recognize Patterns
    Additional AI-Related Techniques
    How Smart is "Computer Intelligence"?

5. Information System Planning
    Introduction to Information System Planning
    Strategic Issues
    Selecting Systems to Invest In
    Project Management Issues
    Systems Analysis Revisited

6. Methods for Building Information Systems
    End-User Development
    Deciding Which Combination of Methods to Use

7. Information System Security and Control
    Threat of Project Failure
    Threat of Accidents and Malfunctions
    Threat of Computer Crime
    Factors that Increase the Risks
    Methods for Minimizing Risks

ASSESSMENTS

1.	Assignments + Tutorials	35%
2.	Mid-term Examination	25%
3.	Final Examination	40%