Catalog Description

Fundamentals of planning, designing, implementing, and managing information technology solutions; market and trend analysis; planning and assessment techniques and tools; human factors in technology management.

Prerequisites

LIS 4003 or LIS 5003 or permission of instructor; LIS 5033 is a pre-/co-requisite for master’s students.

Student Learning Outcomes

On completion of this course students will be able to

1. Identify and assess information technology resources
2. Conduct technology audits and develop technology plans
3. Prepare and present technology proposals
4. Prepare requests for proposals (RFPs) and evaluate bids
5. Review and assess contracts
6. Design and implement technology policies, processes, and procedures
7. Design and implement technology education, training, and help programs
8. Develop and revise information technology personnel policies and procedures
9. Lead the processes associated with technology change in organizations

Teaching/Learning Methods:

This course will employ lecture, discussion, and teamwork with an emphasis on participation. Assignments will be designed for practical application as well as analysis of concepts and issues.

Evaluation Methods:

Evaluation will be based on a combination of written analytical reports, project-based work, and participation in classroom discussion. Graduate students will additionally be responsible for a major paper exploring a significant issue or problem in information technology management.
Students With Disabilities

Excerpt from University Policy 5.4 Reasonable Accommodation Policy

“Any student in this course who has a disability that may prevent him or her from fully demonstrating his or her abilities should contact me personally as soon as possible so we can discuss accommodations necessary to ensure full participation and facilitate your educational opportunities.”

Academic Conduct

Excerpt from the University of Oklahoma Academic Misconduct Code

1.1 BASIC PRINCIPLE OF HONESTY

Honesty is a fundamental precept in all academic activities, and those privileged to be members of a university community have a special obligation to observe the highest standards of honesty and a right to expect the same standards of all others. Academic misconduct in any form is inimical to the purposes and functions of the university and therefore is unacceptable and rigorously proscribed.

Required Texts:

Kathy Schwalbe, Information Technology Project Management (Boston: Thomson Course Technology, 2006).

COURSE OUTLINE:

I. Information technology governance
   A. Vision and mission
   B. Trend analysis and environmental scanning
   C. Forecasting
   D. Strategy and tactics
   E. Technology life cycles and information ecology
   F. Needs assessment
   G. Asset assessment and technology auditing
   H. Resource assessment

II. Technology environment implementation
   A. Hardware and software evaluation, selection, acquisition, installation, configuration, customization, compliance
   B. Operating systems
   C. Applications -- productivity, enterprise, best of breed
D. Enterprise architecture
E. Integration

III. Systems analysis and selection
A. Product specification
B. Proposals and bids
C. RFPs and contracts
D. Purchasing/leasing/product acquisition

IV. Technology environment management
A. Performance management
B. Risk management/security/incident management/vulnerability analysis/forensics
C. Quality assurance
D. Metrics and benchmarking
E. Server logs and tools
F. Maintenance

V. Human factors in technology management
A. Ergonomics and human factors
B. Education and training
C. Help functions
D. Human/technology resource management