PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF AN UNDERGRADUATE COURSE
(100-400 LEVEL)

DEPARTMENT: Computer and Electrical Engineering Technology & Information Systems and Technology
EFFECTIVE SESSION: Fall / 2010

INSTRUCTIONS: Please check the items below which describe the purpose of this request.

☑ 1. New course with supporting documents
☐ 2. Add existing course offered at another campus
☐ 3. Expiration of a course
☑ 4. Change in course number
☑ 5. Change in course title
☐ 6. Change in course credit type
☐ 7. Change in course attributes (department head signature only)
☐ 8. Change in instructional hours
☑ 9. Change in course description
☐ 10. Change in course prerequisites
☐ 11. Change in semesters offered (department head signature only)
☐ 12. Transfer from one department to another

PROPOSED:
Subject Abbreviation
Course Number
Long Title: Information Systems & Technology Strategy, Management & Acquisition
Short Title: IST Strategy, Management & Acquisition

EXISTING:
Subject Abbreviation: IST
Course Number: 466

TERMS OFFERED:
Check All That Apply:
☐ Summer ☑ Fall ☑ Spring

CAMPUS(ES) INVOLVED:
☑ Calumet
☐ Cont Ed
☑ Tech Statewide
☑ Ft. Wayne
☐ W. Lafayette
☐ Indianapolis

CREDIT TYPE:
1. Fixed Credit Cr. Hrs.
2. Variable Credit Range:
   Minimum Cr. Hrs. (Check One)
   ☑ To ☐ Or ☐ Maximum Cr. Hrs.
3. Equivalent Credit: Yes ☐ No ☑
4. Thesis Credit: Yes ☐ No ☑

COURSE ATTRIBUTES:
Check All That Apply
1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
4. Maximum Repeatable Credit:
5. Designator Required
6. Special Fees
7. Registration Approval Type
8. Department Instructor
9. Variable Title
10. Honors
11. Full Time Privilege
12. Off Campus Experience

INSTRUCTIONAL TYPE:
Lecture: Minutes Per Hr: 75
Recitation:
Presentation:
Laboratory:
Lab Prep:
Studio:
Distance:
Clinic:
Experiential:
Research:
Ind. Study:
Prac/Observ:

MEETINGS PER WEEK:
☑ 2

WEEKS OFFERED:
16
% OF Credit Allocated:
100
Delivery Method:
Asyn. Or Syn.
Delivery Medium:
Audio, Internet, Live, Text-Based, Video
Live:
Cross-Listed Courses:

COURSE DESCRIPTION (INCLUDE REQUIREMENTS):
P: IST 370. This course explores the issues and approaches in managing the information systems function in organizations and how the IST function integrates / supports / enables various types of organizational capabilities particularly for strategic advantage. It takes a senior management perspective in exploring the acquisition, development and implementation of plans and policies to achieve efficient and effective information systems. The course addresses issues relating to defining the high-level IST infrastructure and the systems that support the operational, administrative and strategic needs of the organization. The remainder of the course is focused on developing an intellectual framework that will allow leaders of organization to critically assess existing IST infrastructures and emerging technologies as well as how these enabling technologies might effect organizational strategy. The ideas developed and cultivated in this course are intended to provide an enduring perspective that can help leaders make sense of an increasingly globalized and technology intensive business environment.

Calumet Department Head
Date
10/29/07

Calumet School Dean
Date

Ft. Wayne Department Head
Date

Ft. Wayne School Dean
Date

Indianapolis Department Head
Date

Indianapolis School Dean
Date

North Central Department Head
Date

North Central Chancellor
Date

West Lafayette Department Head
Date

West Lafayette College/School Dean
Date

West Lafayette Registrar
Date

OFFICE OF THE REGISTRAR
IST 466  Information Systems & Technology Strategy, Management & Acquisition

Learning objectives

Students will:
1. Understand the various functions and activities within the information systems area, including the role of IT management and the CIO, structuring of IST management within an organization, and managing IST professionals within the firm.
2. Learn to design an effective structure for various types of IST organizations
3. Learn how to view an organization through the lens of the information systems used to enable core and supportive business processes as well as those that interface with suppliers and customers.
4. Understand the concepts of information economics at the enterprise level.
5. Gain insight into how IST represents a key source of competitive advantage for firms.
6. Learn to structure IST-related activities to maximize the business value of IST within and outside the company.
7. Understand existing and emerging information technologies, the functions of IST and its impact on the organizational operations.
8. Understand the issues and challenges associated with successfully and unsuccessFully incorporating IST into a firm.
9. Understand how strategic decisions are made concerning acquiring IST resources and capabilities including the ability to evaluate the different sourcing options.
10. Learn how to manage relationships with vendors of IT services.
11. Learn how to manage intellectual property related to IT.

Topics

- Organizations, Management, and the Networked Enterprise
  - Information systems in Global Businesses Today
  - Global E-Business: How Businesses use Information Systems Competitively
  - Information systems, Organizations, and Strategy / The Formation Systems Function
  - Ethical and Social issues in Information Systems
- Information Technology Infrastructure
  - IT Infrastructure and Emerging Technologies
  - Foundations of Business Intelligence: Database and Information Management
  - Telecommunications, the Internet, and Wireless Technology
  - Securing Information Systems / Risk Management
- Key System Applications for the Digital Age
  - Achieving Operational Excellence and Customer Intimacy: Enterprise Applications
  - E-Commerce Digital, Markets, Digital Goods
  - Managing Knowledge and Collaboration
  - Enhancing Decision Making
- Building and Managing Systems
  - Choices in Building Information Systems
  - Information Technology Economics
  - Managing Global Systems

Discussion
• The core course in IS Strategy, Management and Acquisition will take a high-level approach to the management and acquisition of IS-resources within the firm.

• The course will deliver the student specific strategies used in firms today to help form the basis of IS strategic management. Based on this knowledge student will then be asked to apply said strategies to management issues within an IS context.

• Specifics on what frames of strategic thinking are used in this course are left unanswered. Institutions may have certain capabilities or constraints that can be optimized to offer the best thinking for the companies that are hiring their graduates. Also, there are different regional issues that need to be addressed in order to match the current thinking with specific IS strategies.

• Using a case study methodology is highly recommended for this course as it will help the students strategically identify issues in a real-world setting. In general, it is essential that the pedagogical approaches chosen for this course will carefully consider the fact that the issues covered are at a higher level of abstraction than what the students are used to based on their practical experience in organizations.