

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.

- | | |
|---|---|
| <input checked="" type="checkbox"/> 1. New course with supporting documents | <input type="checkbox"/> 7. Change in course attributes (department head signature only) |
| <input type="checkbox"/> 2. Add existing course offered at another campus | <input type="checkbox"/> 8. Change in instructional hours |
| <input type="checkbox"/> 3. Expiration of a course | <input type="checkbox"/> 9. Change in course description |
| <input type="checkbox"/> 4. Change in course number | <input type="checkbox"/> 10. Change in course requisites |
| <input type="checkbox"/> 5. Change in course title | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
| <input type="checkbox"/> 6. Change in course credit/type | <input type="checkbox"/> 12. Transfer from one department to another |

PROPOSED:

Subject Abbreviation **IST**

Course Number **360**

Long Title **Enterprise Systems**

Short Title **Enterprise Systems**

Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

EXISTING:

Subject Abbreviation

Course Number

TERMS OFFERED

Check All That Apply:

- Summer Fall Spring

CAMPUS(ES) INVOLVED

- | | |
|---|---|
| <input type="checkbox"/> Calumet | <input type="checkbox"/> N. Central |
| <input type="checkbox"/> Cont Ed | <input type="checkbox"/> Tech Statewide |
| <input checked="" type="checkbox"/> Ft. Wayne | <input type="checkbox"/> W. Lafayette |
| <input type="checkbox"/> Indianapolis | |

CREDIT TYPE

1. Fixed Credit: Cr. Hrs. **3.0**
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

- | | |
|--|---|
| <input type="checkbox"/> 1. Pass/Not Pass Only | <input type="checkbox"/> 7. Registration Approval Type |
| <input type="checkbox"/> 2. Satisfactory/Unsatisfactory Only | Department <input type="checkbox"/> Instructor <input type="checkbox"/> |
| <input type="checkbox"/> 3. Repeatable | <input type="checkbox"/> 8. Variable Title |
| Maximum Repeatable Credit: <input type="checkbox"/> | <input type="checkbox"/> 9. Remedial |
| <input type="checkbox"/> 4. Credit by Examination | <input type="checkbox"/> 10. Honors |
| <input type="checkbox"/> 5. Designator Required | <input type="checkbox"/> 11. Full Time Privilege |
| <input type="checkbox"/> 6. Special Fees | <input type="checkbox"/> 12. Off Campus Experience |

Instructional Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated	Delivery Method (Asyn. Or Syn.)	Delivery Medium (Audio, Internet, Live, Text-Based, Video)
Lecture	75	2	16	100	Syn.	Live
Recitation						
Presentation						
Laboratory						
Lab Prep						
Studio						
Distance						
Clinic						
Experiential						
Research						
Ind. Study						
Pract/Observ						

Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUISITES):

P: IST 260. This course is designed to provide students with an understanding of the theoretic and practical issues related to the application of Enterprise Systems within organizations. The main focus of this course is to demonstrate how Enterprise Systems integrate information and organizational processes across functional areas, and global operations, with a unified system comprised of a single database and shared reporting tools. Example software will be used to illustrate how Enterprise systems work.

Calumet Department Head _____ Date _____ Calumet School Dean _____ Date _____

[Signature] 10/29/09 *[Signature]* 10-29-09
Fort Wayne Department Head _____ Date _____ Fort 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 _____

Learning objectives

Students will:

1. Understand the fundamentals of Enterprise Systems and issues associated with their implementation.
2. Learn to evaluate the costs and benefits of implementing an Enterprise System.
3. Understand how enterprise systems integrate functional areas into one enterprise-wide information system.
4. Learn to explain how “best practices” are incorporated in Enterprise Systems.
5. Learn to recognize how an organizational process often spans different functional areas.
6. Learn to describe the role of Enterprise Systems in carrying out processes in an organization.
7. Learn to integrate key concepts from functional-oriented courses, such as accounting, marketing, and organizational behavior, to promote the development of integrative skills.
8. Learn to explain how integrated information sharing increases organizational efficiencies.
9. Learn to Identify, describe, and evaluate the major Enterprise System software providers and their packaged systems.
10. Understand current trends related to Enterprise Systems.

Topics

- Business processes and business process integration
- Making the case for acquiring and implementing Enterprise Systems
- Analyzing business requirements for selecting and implementing an Enterprise System
- Selection of Enterprise Systems software
- Challenges associated with the implementation of global Enterprise Systems applications
- Organizational change
- Strategic alignment
- User commitment
- Communications
- Training
- Job redesign
- Governance of processes and data
- Post-implementation issues
- Enterprise System processes
- Order processing
- Purchasing
- Production logistics
- Accounting
- Planning & Control
- Human resource functions
- How Enterprise Systems support e-business

Discussion

- The course specification intentionally leaves Enterprise System software unspecified. Institutions have to make the decision of whether and how to provide students with experience with actual Enterprise System software. It is, however, preferable that the

course include exposure to and hands-on use of one of the two large Enterprise System vendors in the market place, SAP or Oracle, or one of the several smaller vendors such as SSA Global, Microsoft (Axapta, Great Plains and Solomon), Intuit, or Minicom, to name a few. The importance of actual use is clear. Enterprise System software is in place in a majority of large organizations and increasing in use in small and medium sized organizations.

- A group project is highly recommended to assess both practical/applied aspects and the conceptual/theoretical content of the course. For example, a group project could require students to study a real-world organization and evaluate the suitability of SAP R/3 or another software solution. This evaluation would then be compared with other Enterprise System software products in terms of product functionality, support and flexibility for configuration and customization, architecture and technology compatibility, web-based functionality, ease of interfacing with other legacy systems, and implementation costs. If software resources permit, the group could then design and configure a simple workable integrated Enterprise System, using SAP R/3 for example, that demonstrates the integration of information from several modules, such as accounts receivable, sales, manufacturing/production, procurement, accounts payable, or general ledger. Student groups would analyze the functional areas in a real-world organization and map them into SAP R/3. Students would create an enterprise structure, relevant master data in the software, transactions that demonstrate integration of core processes, and provide documentation. Students thereby apply specialist skills and knowledge drawn from other traditional disciplines to an actual organization and demonstrate the development of skills such as analytical skills, communication, critical thinking, problem solving, and teamwork.
- The course provides a pedagogical basis for a change in the delivery of education from a functional orientation to a process orientation, leading to the integration of curriculum across functions.