

IST 420: FUNDAMENTALS OF ENTERPRISE SYSTEMS INTEGRATION

Instructor Information

Instructor: Dr. David J. Fusco; College of IST

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COURSE MATERIALS:

All reading materials for this class are located on Canvas and the Web.

COURSE OVERVIEW

This course introduces students to integration of information technologies. Emphasis is placed on methodologies and skills used during the front-end of integration projects, especially analysis and design activities. The course is required for all Information Sciences and Technology (IST) undergraduates who have chosen the Information Technology Integration Option in their Baccalaureate degree. It is the pre-requisite for IST 421 (Advanced Enterprise Integration: Technologies and Applications), which is also required for the option. IST 240, IST 301 and 302 are the prerequisites for this course. This course will incorporate collaborative and problem-based learning experiences.

COURSE OBJECTIVES

Upon successful completion of this course, you will:

- Understand the context of integration projects
- Be familiar with basic life cycle development methodologies
- Be able to take a stakeholder's view of a problem/opportunity and integrate it with other stakeholder views to determine the functional requirements of the current system
- Represent the functional requirements using unified modeling language (UML)

- Create a high-level system design based on a set of UML and other functional requirement documents.

COURSE WEB SITE

We will use Canvas, Penn State's online course management system throughout the semester. It will be the primary mode of communication for this course. To access IST 420 information online go to the Canvas Web site <http://cms.psu.edu> and logon using your PSU username and password. All necessary updates and/or changes to the course will be reflected in the online course management system

Evaluation – 555 points total

Exams – 270 points total

Exam I – 90 points

Exam II – 90 points

Exam III – 90 points

Individual assignments – 60 points total

Systems Design Overview – 20 points

Modeling Summary – 20 points

Future Summary – 20 points

Team assignments – 225 points total

MS I, II, III, IV, and V – 40 points each

Data Exchange Observation – 25 points

Grading Scale

A 94-100; A- 93-90; B+ 89-87; B 86-84; B- 83-80; C+ 79-77; C 76-70; D 69-60; F 59-0

CLASS POLICIES

Make-up exams:

No make-up exams will be given without prior approval by the instructor and valid written documentation supporting the request.

Assignments:

Late assignments will be assessed a 10% penalty for each day that they are late (with the initial 10% deducted the nanosecond after the assignment was due).

Equipment failure is not an acceptable reason for turning in an assignment late. You should always make a backup of your files (if it's really important, make two backups). You should make sure you print out your work early enough so that you can find an alternate location to print, if necessary. For team-based assignments, know who, from your team, is turning in your team's assignment.

Written Communication: Your writing must be of professional quality. It must be free of spelling and grammar errors, so proofread your work carefully. Points will be deducted for grammar and spelling errors. Your work should be neatly prepared using standard margins and spacing.

Classroom Etiquette:

Be punctual. I will make every attempt to begin class on time. I expect you to be seated and ready to learn when class begins.

Pay Attention. If you make the effort to come to class, then you should also make the effort to give me and your classmates your undivided attention.

Don't eat. Please eat prior to class, rather than during class.

No phone calls. Turn off your phones while in class, please.

Don't leave during class: Leaving while the class is in session is disruptive. Please take care of necessities prior to the start of class.

Poor classroom etiquette will result in a reduction in your class participation grade.

Communication:

Contacting me: I encourage you to contact me regarding any concerns you have with this class or advice on life or your hobbies. My door is open and my advice is free. Just send me an email and we can arrange a meeting time.

Do not, however, contact me regarding what you missed when you were ill or simply decided not to attend class. Get a 'classroom buddy' who is willing to fill you in on classes that you missed. I will not spend time giving private lectures. I will, of course, answer questions regarding class

lectures that you (1) attended and (2) have read the material for and done any associated homework.

UNIVERSITY POLICIES

Academic Integrity:

According to the Penn State Principles and University Code of Conduct:

Academic integrity is a basic guiding principle for all academic activity at Penn State University, allowing the pursuit of scholarly activity in an open, honest, and responsible manner. In accordance with the University's Code of Conduct, you must not engage in or tolerate academic dishonesty. This includes, but is not limited to cheating, plagiarism, fabrication of information or citations, facilitating acts of academic dishonesty by others, unauthorized possession of examinations, submitting work of another person, or work previously used without informing the instructor, or tampering with the academic work of other students.

Any violation of academic integrity will be investigated, and where warranted, punitive action will be taken. For every incident when a penalty of any kind is assessed, a report must be filed. This report must be signed by both the instructor and the student, and then submitted to the Senior Associate Dean.

Please note my *intolerance of cheating*. In my class, you are much wiser to *fail an assignment with honor than to cheat*.

Affirmative Action & Sexual Harassment:

The Pennsylvania State University is committed to a policy that all persons shall have equal access to programs, facilities, admission, and employment without regard to personal characteristics not related to ability, performance, or qualifications as determined by University policy or by Commonwealth or Federal authorities. Penn State does not discriminate against any person because of age, ancestry, color, disability or handicap, national origin, race, religious creed, gender, sexual orientation, or veteran status. Direct all inquiries to the Affirmative Action Office, 211 Willard Building.

Americans with Disabilities Act:

IST welcomes persons with disabilities to all of its classes, programs, and events. If you need accommodations, or have questions about access to buildings where IS activities are held, please contact us in advance of your participation or visit. If you need assistance during a class, program, or event, please contact the member of our staff or faculty in charge.

An Invitation to Students with Learning Disabilities:

It is Penn State's policy to not discriminate against qualified students with documented disabilities in its educational programs. If you have a disability-related need for modifications in your testing or

learning situation, your instructor should be notified during the first week of classes so that your needs can be accommodated. You will be asked to present documentation from the Office of Disability Services (located in 116 Boucke Building, 863-1807) that describes the nature of your disability and the recommended remedy. You may refer to the Nondiscrimination Policy in the *Student Guide to University Policies and Rules*.