

IST 4730 WSU Fall 14 23967

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IS&T 4730

Senior Practicum: Project Management and Systems Development

Instructor: Dr. Zhuolin Yu

Office: WB 227 Ogden Campus, BLDG 2 137H Davis Campus

Office Hours: Tuesdays and Thursdays 10:00–11:00 a.m. Wednesday 2:30 - 5:30 p.m. at Ogden Tuesday 2:00 - 4:00 p.m. at Davis campus Or by appointment, or drop by anytime. Please call or email in advance if possible.

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Required Text: Introduction to Project Management, Kathy Schwalbe, 3rd or 4th Edition, Cengage-Course Technology, ISBN 978-0-615-30891-3

Course Description:

This is a capstone course for IST majors. The course provides hands-on and problem-solving experiences in all areas of information technology including systems analysis, design, systems implementation, network design, software development, and database design. Students will participate individually, or as a member of a team to complete a proposal or a project for a significant computer-based system. This course focuses on working with business or organizational problems or opportunities as represented by individuals in an organization.

Students will work on one of the following projects: (1) development and implementation of a business information system, (2) assessment and action plan for a network security project, or (3) plan for launching an information technology-based business.

Grading:

Quizzes	150
Attendance, Participation & Weekly Progress Reports	250
Success of Project	200
Project Presentation & Demonstration	200
Project report or business Plan	200
TOTAL	1000

930-1000	A	730-760	C
900-920	A-	700-720	C-
870-890	B+	670-690	D+
830-860	B	630 -660	D
800-820	B-	600-620	D-
770-790	C+	Below 600	E

Please check your email and announcements in Canvas before coming to class each week.

Flu: in the event of an extended campus closure, I will continue to provide instruction by utilizing the Blackboard online course system (WSU Online). I will provide text-based mini-lectures each week and will expect you to login to the system on a regular basis to keep up with course work if you are healthy. Assignments will be provided through the online system with clear due dates and expectations. Discussions will be made available to allow you to interact with other students and me about course material, but participation in these will not be required. I will check email within the Blackboard course on a daily basis should you need to communicate with me personally. If you are not familiar with the Blackboard system, please review the student orientation available at <http://wsuonline.weber.edu/students/orientation.asp>. If you are ill, stay home. If you become ill (fever) while at school, go home. Exposing others to the virus can potentially result in serious complications and even death in high-risk individuals. See the WSU website at <http://weber.edu/flu> for specific recommendations.

Unlike some other classes that I have taught, our weekly class time provides information that you cannot otherwise obtain and participate; therefore, you are expected to attend all classes unless you are absent due to illness or family emergency. If you miss a class activity due to the above reasons, you will normally be asked to provide a written excuse before making up the activity. Otherwise, no makeup will be given and will receive a zero for the activity.

Any attempt to gain unfair advantage during quizzes, or submitting another student's work as your own, is considered cheating. If caught cheating in this class, you will fail the class and the university will pursue the matter.

Students with Disabilities:

Students requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in Room 181 of the Student Service Center on the Ogden campus. SSD can also arrange to provide materials (including this syllabus) in alternative formats if necessary.

Project Guidelines:

Practicum projects will focus on real organization or business problems or opportunities. Each project must have a client with which students pursue problems/opportunities and provide business value. Students may work in teams or individually on one of the following:

- System development and implementation project – for systems development emphasis students

- Network or network security project – for information security emphasis students
- **IT-based** business plan – for all IS&T students

Potential clients are ranked as follow:

1. First choice is a non-profit organization; WSU, charter school, shelter, chamber of commerce, church, Boy Scouts, etc.
2. Second choice is a small business or organization that is not able otherwise to afford computer assistance.
3. Third choice is project that would be of great value to student learning from any business or organization.

Project Approach:

The Senior Practicum course is organized around the concepts of Project Management. This approach to software and other IT projects emphasizes a planned, specific process to help insure a successful project. The text contains examples of this process.

The final report or business plan includes work completed throughout the semester. The project concludes with a presentation, demonstration, and report that is open to students, faculty, and outside visitors.

Project Grading:

The grading philosophy for practicum projects focuses on:

Following project management techniques:

1. Frequent contact with and delivery of business value to clients
2. Full participation and contribution to team efforts
3. Preparation for and attendance at team meetings

Each student will receive a grade for participation and results of the project. Each student will evaluate other team members' effort and accomplishments. These peer evaluations will be a substantial factor in grading. It is expected that students will rotate project assignments so each person gains experience with a variety of tasks, such as planning, testing, programming, installation, and documentation.

All team members will receive the same grade for their project report or business plan, unless there is substantial evidence of differentiations of individual effort. Reports and plans will be graded for completeness, appearance, and clarity.

All students will participate in the final project presentation and demonstration. Please wear reasonable business professional attire. If this presents a hardship, please contact the instructor; a simple "this is a problem" email is sufficient. Presentations will be graded for clarity, timing, equal participation of team members, and discussion management.

Quizzes:

Weekly online quizzes will cover assigned reading material for each class session. Each quiz will be short (5-15 questions) and must be completed before the beginning of class (Wednesdays at 5:30 pm). Sorry, there is no make-up for missed quizzes.

Project Suggestions

System Development	Network Security	Business Plan
Project charter Organizational context System concept Current systems and problems System requirements and design <ul style="list-style-type: none"> Class diagram Use case diagrams and descriptions Sequence diagrams Deployment diagram System development <ul style="list-style-type: none"> Database Security/login Data entry Data retrieval Reporting System interfaces Web access System administration System maintenance and support System backup and recovery User manual Client training	Project charter Current network physical design Security audit <ul style="list-style-type: none"> Expectations Current security measures Expectations met? Action plan <ul style="list-style-type: none"> Scope Plug holes Patch levels Antivirus Physical security Firewall User IDs Passwords Email Remote access Wireless Backup and recovery Security policy Hacker tests (with written permission) Client training	Project charter Business concept <ul style="list-style-type: none"> Executive Summary Business mission Management team Products/services Customers Competitors Marketing plan Sales strategies Staffing plan Technology plan Funding plan Financial analysis <ul style="list-style-type: none"> Pro-forma financials ROE ROI Financial leverage Profitability ratios Web site to promote the business

Schedule:

Week	Date	Pre-Class Readings	MS-Project Presen
1	Aug 27	Intro, Chapter 1, & Projects	
2	Sept 3	Chapter 2 & Projects	
3	Sept 10	Chapter 3 & Projects	Initial Project

4	Sept 17	Chapter 4 & Projects	Initial Project
5	Sept 24	Chapter 5 & 6 & Projects	
6	Oct 1	Chapter 7, 8, & 9 & Projects	
7	Oct 8	Projects	
8	Oct 15	Projects	Project Progress R
9	Oct 22	Projects	Project Progress R
10	Oct 29	Projects	
11	Nov 5	Projects	
12	Nov 12	Projects	
13	Nov 19	Projects	
14	Nov 26	Final Project Presentations	Final Project
15	Dec 3	Final Project Presentations	Final Project
16	Dec 10	Final Reports Due	

Selection Order to be Entered Under MS-Project Presentations.

Signup by Clicking "Modules" in the top of the left pane, Then MS-Project Presentation Schedule, Then "Edit this page" in the right pane. Then choose a topic, and date to resent (that has not already been chosen). Edit the table to enter your choices.

Examples of Topics include, but are not limited to:
Creating a new project, Tasks, Gantt Charts, Network diagrams, Critical path analysis, Resources, Team planning, etc.

Week	Date	MS-Project Topic	Student Name
1			
2		Creating a new project	
3		Resource Management	
4		Reports	
6		Project Cost	
7			

8			
9		Gantt Charts	
10		Combining Projects Together	
11		Create and Maintain Calendars	
12			
13			
14			
15			
16			