ITP454
Enterprise Resource Planning, Design, and Implementation

Instructor: Richard W. Vawter   **ITP 454**, Spring 2018
Office: OHE 530B   **Location**: KAP 166
E-Mail: vawter@usc.edu   Thurs. 5:00-7:50 p.m.
Phone: (213) 740-9541

Office Hours: Tues.   11:00 - 12:00 noon   **Class Web Page**:
                       Wed.   10:00 - 2:00 p.m. *   https://blackboard.usc.edu/
                       Thurs.   11:00 - 12:00 noon   or
                       or by appointment   http://www-bcf.usc.edu/~vawter/classes.html

* Office Hours on 1ˢᵗ Wed. of each month: 10-12 noon.

Course Description:

This course takes an in-depth look at the process and requirements necessary to implement an Enterprise Resource Planning System (ERP) for an organization. The Accelerated SAP method (as outlined by the ERP tool SAP) will be followed throughout the semester. Students will first be grouped into small project teams. Each team will be responsible for setting up a Windows Server system and monitoring that server system during the semester. The teams will then implement onto the servers an ERP system used for coordinating an organization's activities. The final tasks performed by the teams will be the transportation of data from a case company's legacy system into the newly implemented ERP system and the configuration of that ERP system to model the case company's Customer Order process.

Suggested Textbooks: (*Not Required*)

1. SAP R/3, Business Blueprint, 2ⁿᵈ Edition, by Thomas A. Curran & Andrew Ladd, Prentice Hall PTR, ©2000.

2. The SAP R/3 Handbook, by José Antonio Hernández, McGraw-Hill, ©1997.

3. Administering SAP R/3: The SD-Sales and Distribution Module, by Jonathan Blain and Bernard Dodd, Que, ©1999.

4. Accelerated SAP, Implementing at the Speed of Business, by Stewart S. Miller, McGraw-Hill, ©1998.

Class Schedule:

Class	Topic	Reading Assignment	Lab Assignment
1. Jan. 11	Course Overview Review: The Sales (Fulfillment) process	Class notes: Overview of the Sales Process	**Assignment #1** – The Sales process, due Jan. 18, before 5:00 pm.
2. Jan. 18	Overview of Installation Concepts	Class notes: ERP Installation Concepts Online documents: • NW Installation	Begin setting up your server. **Assignment #2** – ECC Installation, due **Wednesday,** Feb. 14, before 5:00 pm.

Class	Topic	Reading Assignment	Lab Assignment
3. Jan. 25	ECC Installation	Online documents: • Oracle Installation • ECC Installation	Continue w/ Assignmnt #2. Install the Database Management System
4. Feb. 1	Post Installation	Online documents: • Post-Install Procedures	Continue w/ Assignmnt #2. Install the ECC Instance.
5. Feb. 8	Post Installation (cont.)	--	Continue w/ Assignmnt #2. Check your ECC System and begin post install-lation procedures, due **Wednesday**, Feb. 14, before 5:00 pm.
6. Feb. 15	**Exam 1**	--	No assignment this week
7. Feb. 22	System Monitoring Lab - Local Client Copy	Class Notes: Monitoring ERP Systems Online documents: • Monitoring Tools • Performance Analysis	**Assignment #3** – System Monitoring, due March 1, before 5:00 pm. **Assignment #4** – Local Client Copy, due March 1, before 5:00 pm..
8. Mar. 1	System Administration and Security Issues.	Class notes: System Administration	**Assignment #5** – Admini-stration, due **Wed**., Mar. 21 before 5.
9. Mar. 8	System Administration and Security Issues (cont.) Remote Client Copy	--	Continue w/ Assignmnt #5 **Assignment #6** – Remote Client Copy, due **Wed**., Mar. 21, before 5.
Mar. 12-16	*Spring Recess*		
10. Mar. 22	**Exam 2**	--	In class after the exam, secure your system as explained in Assignmnt 5
11. Mar. 29	Configuration and the IMG	Class notes: Configuration Online document • Configuring your new Client	**Assignment #7** – Configu-ration, due Apr. 12, before 5 pm.
12. Apr. 5	Configuration (cont.)	Online document: • *Testing the Client Configuration for the Sales process*	Continue w/ Assignmnt #7. Test your new client by completing a typical Sales Order process.

Class	Topic	Reading Assignment	Lab Assignment
13. Apr. 12	Performing Data Transfer	Class notes on data transfer strategies.	**Project #8** – Transferring Legacy Data to your new system, due Apr. 19 before 5:00 pm.
14. Apr. 19	Preparation to Go Live, Final Preparation	Online documents: • *Adapt Initial Screen* • *Web enable your system*	Final Preparation to go live. (Run Assignmnt #1)
15. Apr. 26	GO LIVE ! Course Review	Online documents • *System check list*	**Self-Peer Evaluations** **Final system test**.

Lab Projects:
- In the second week of class, you will be grouped into teams of four to set up and implement an SAP ECC system.
- Your team will be assigned a server that you will be responsible for during the semester. At the end of the semester, your team's ECC system will be tested to verify its integrity and ability to complete a standard sales process, including creating a delivery document, an invoice, and collecting/recording payment for the order.
- During the semester, projects will be assigned to provide you with the practical information needed to guide you through the implementation process.
- Some of the assignments are to be worked on individually while others are to be worked on as a team. Each assignment will explain how it is to be completed.
- It is **your** responsibility (or in some cases, your team's responsibility) to submit the lab assignments to the class blackboard assignment's page **before the beginning of lecture** on the dates indicated on the class schedule. **You will not have time to complete the assignment during class on the date the assignment is due!**
- When you submit your assignment, you are to ① verify that your document is in the class "assignment box" and to ② double-click on the file to open it up. If you can't see or open your document, then neither can I or the grader!
- **Failure to correctly submit assignments will result in a 5% penalty.** This includes asking either the TA or myself to remove your submission so that you can submit another version of your answers.

Late Projects:
- The "Assignments" section of the class web site "closes" after the due date and time and is replaced by the answer key. You will no longer be able to submit your project. Your assignment will therefore be considered late at this time.
- **Late assignments will automatically have 50% of the possible points deducted prior to grading**. No excuses! So, please turn in your assignments on time or simply submit what you have completed.
- **No assignments will be accepted after 2 weeks** beyond the project's original due date nor after the last week of the semester.

Final System:
Test

Each team's system will be checked on the last day of class. The team's system will be tested for integrity, security, configuration and the ability to perform all transactions necessary in the Sales process. A check list will be provided to each team a week prior to "going live".

Examinations: There will be two exams plus a final exam covering material from the class notes, lectures, and lab assignments. They will be of the form: multiple choice, short answer, and short problem solving. The exams will be both closed book and closed notes. The exams will include material presented up to the date of the exam. The "Final" exam will include material presented during the entire semester, but will be weighted more heavily on information presented during the last third of the semester.

- Exam 1:   Thursday, Feb. 15,   5:00-6:00 p.m.   KAP 166
- Exam 2:   Thursday, Mar. 22,   5:00-6:00 p.m.   KAP 166
- Final Exam: Thursday, May 3,   4:30-6:30 p.m.   KAP 166

    Note: **No make-up exams will be offered nor will there be any changes made to the Final Exam schedule as established by the University.**

Grading: Grading will be on a straight scale (as opposed to a class curve/average). Final grades will be based strictly upon the total percentage earned. **No exceptions! Nor, will extra credit assignments be offered.**

94% and above	A
90% - 94% (not including 94%)	A-
87% - 90% (not including 90%)	B+
83% - 87% (not including 87%)	B
etc.	

The weighted average of your work will be calculated as follows:

Average of all Lab Projects	20%
Final System Check	25%
Exam 1	10%
Exam 2	15%
Final Exam	25%
Inner-team Evals	5%
	100%

Students with Disabilities:

Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to me (or to your lab assistant) as early in the semester as possible. DSP is located in GFS 120 and is open 8:30 a.m. - 5:00 p.m., Monday through Friday. The phone number for DSP is (213) 740-0776.

Student Conduct:

Excerpt taken from *SCampus Student Guidebook:*

The use of unauthorized material, communication with fellow students during an examination, attempting to benefit from the work of another student, and similar behavior that defeats the intent of an examination or other class work is unacceptable to the University. It is often difficult to distinguish between a culpable act and inadvertent behavior resulting from the nervous tension accompanying examinations. When the professor determines that a violation has occurred, appropriate action, as determined by the instructor, will be taken.

Although I encourage working together, all work claimed as yours must in fact be of your own effort. Students who plagiarize the work of other students or provide material for another student to copy, will receive zero points and **will be referred to** the Student Judicial Affairs and Community Standards (SJACS) board for further action. If SJACS determines the student violated the ethics codes, **the student will receive an F** in the course as suggested by the University. This is non-negotiable!

The School of Engineering adheres to the University's policies and procedures governing academic integrity as described in SCampus. Students are expected to be aware of and to observe the academic integrity standards described in SCampus, and to expect those standards to be enforced in this course.

All students must read, understand, and abide by the University Student Conduct Code listed in SCampus, and available at:
    http://www.usc.edu/student-affairs/SJACS/nonacademicreview.html