

 <p>ITAM Information Technology & Administrative Management Central Washington University</p>	<p>IT462 System Design Course Syllabus - 4 credits</p>
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Course Description: Apply systems analysis to the design of new or improved systems. Prerequisite: IT461.

Course Objective: Systems analysis and design (SAD) is a core competency for the 21st-century IT professional. Organizations need IT professionals who both understand the intricacies of their business and can skillfully apply a technological solution to their complex problems and strategic initiatives. This course focuses on the design part using a traditional method (design of processes, design of data, design of interfaces, development, and implementation). The emphasis is on the basic skills necessary for the participation to design activities and/or the pursuit of a career in system development. The Analysis part is the focus of IT461.

Learner Outcomes:

Learner Outcomes	Assessment
Upon successful completion of this course, the student should be able to:	
Position system design in the development process	Exams
Develop an understanding of the concepts of database, physical process, and interface	Exams and project
Explain in detail the individual phases of the SDLC, along with the expected activities and deliverables from each (especially those related to design, development and implementation)	Exams
Participate actively to the development and the implementation of IS/IT projects	Project
Transpose end users' requirements into a workable prototype	Project
Create physical data flow diagrams (DFD)	Exams and project
Create database architecture	Exams and project
Create interface architecture trees and networks	Exams and project
Create documented interfaces	Exams and project
Perform basic project management tasks associated with scope, time and budget for the design stage	Exams and project
Write a system design document	Project
Write a user documentation	Project
Understand the job of system designer	Project and Exams
Work effectively in a pair	Project
Follow a process to solve organizational problems	Project
Write better	Project

Required Texts: Course pack will be available at the CWU bookstore.

I also recommend that once you have an idea of the software used to develop your project, you buy a book with advanced concepts on it. For example, if you want to develop the system with ACCESS, I will recommend *Microsoft Office Access 2007: Programming by example with VBA, XML, and ASP* by J. Korol.

Instructional Methods:

This course is taught using a variety of methods, with writing activities and group discussion board work emphasized. In addition, independent study activities, peer-evaluation, lectures, and the Internet will be utilized.