

COURSE SYLLABUS

Course Title:	Systems Analysis and Design		Date submitted:	Spring 2014 (AAC: 14-28)
Department:	Business and Technology			
Curriculum:	Computer Information Systems			
Course Descriptors: Make certain that the course descriptors are consistent with college and Board of Trustees policies, and the current course numbering system.	Course Code: (eg. ACC 101)	CSC*250	Prerequisites:	
	Course Type:	X	C- or better in Advanced Visual Basic (CSC*208) or Programming with Object-Oriented C++ (CSC*215) or Advanced Java Programming I (CSC*221)	
	A: Clinical B: Lab D: Distance Learning I: Individual/Independent L: Lecture N: M: Seminar Internship P: Practicum U: Studio X: Combined Lecture/Lab Y: Combined Lecture/Clinical/Lab Z: Combined Lecture/Studio			
	Elective Type:	G/LAS		
	E: English FA: Fine Arts FL: Foreign Language G: General HI: History HU: Humanities LAS: Liberal Arts & Sciences M: Math S: Science SS: Social Science			
	Credit Hours:	3	Corequisites:	
	Developmental: (yes/no)	No	None	
	Lecture:	3		
	Clinical:	0		
	Lab:	0		
Studio:	0			
Contact Hours:	0			
	0			
	0			
	TOTAL:	3	Other Requirements:	
Class Maximum:	24	None		
Semesters Offered:	F/S/Su			
Catalog Course Description:	The principles of systems analysis and design, and a basic framework for an analytical method, are presented. The student is given practical business problems and is guided in the analysis and design of automated solutions.			
Topical Outline: List course content in outline format.	1. Review of the Basics in Data Processing 2. Overview of Different Information Systems 3. Project Management, Analysis and Design Tools 4. Transaction and Decision Support System 5. Initial Investigation 6. Detailed Investigation 7. Designing Systems <ul style="list-style-type: none"> a. General Design b. Detailed Design <ul style="list-style-type: none"> i. Input-Output ii. Files and Databases 			

	<p align="center">iii. Programs and Procedures</p> <p>8. Implementation and Evaluation</p> <ol style="list-style-type: none"> a. Programming Considerations b. Preparing for New System c. Documentation and Systems Audit d. Analysis of Different Cases
<p>Outcomes: Describe measurable skills or knowledge that students should be able to demonstrate as evidence that they have mastered the course content.</p>	<p>Upon successful completion of this course, the student will be able to do the following:</p> <p>COURSE:</p> <ol style="list-style-type: none"> 1. utilize system development life cycle strategy 2. construct data flow diagrams and decision matrices to support a thesis 3. create information gathering surveys
	<p>PROGRAM: <i>(Numbering reflects Program Outcomes as they appear in the college catalog)</i></p> <p>SYSTEMS ANALYSIS</p> <ol style="list-style-type: none"> 6. Analyze and design computer systems using the information system life cycle phases 7. Synthesize computer information systems knowledge and skills in solving basic information processing systems problems
	<p>GENERAL EDUCATION: <i>(Numbering reflects General Education Outcomes as they appear in the college catalog)</i></p> <ol style="list-style-type: none"> 2. Critical Analysis/ Logical Thinking - Students will be able to organize, interpret, and evaluate evidence and ideas within and across disciplines; draw reasoned inferences and defensible conclusions; and solve problems and make decisions based on analytical processes. <p>Demonstrates: Identifies the issue(s); formulates an argument; explains and analyzes relationships clearly; draws reasonable inferences and conclusions that are logical and defensible; provides support by evaluating credible sources of evidence necessary to justify conclusions.</p> <p>Does Not Demonstrate: Identifies few or no issues; formulates an argument without significant focus; provides an unclear explanation of analysis and relationships; drawing few reasonable inferences and conclusions that are illogical and indefensible; provides little to no support using credible sources of evidence necessary to justify conclusions.</p>
<p>Evaluation: List how the above outcomes will be assessed.</p>	<p>Assessment will be based on the following criteria:</p> <ol style="list-style-type: none"> 1. Research projects and case studies will demonstrate a student's ability to analyze and design a system. 2. Written examinations will demonstrate an understanding of major facts, procedures and theories. 3. At least one project or case study will be uploaded to ePortfolio.
<p>Instructional Resources: List library (e.g. books, journals, on-line resources), technological (e.g. Smartboard, software), and other resources (e.g. equipment, supplies, facilities) required and desired to teach this course.</p>	<p>Required: None Desired: None</p>
<p>Textbook(s)</p>	<p>Refer to current academic year printout.</p>