

BUS 425 ES Systems Analysis Syllabus

Objective: The purpose of this syllabus is to guide the participant in the requirements, demands, logistics and expectations of this course.

Getting Help: To receive technical assistance on issues related to WebCT contact:
Academic Instructional Technology Help Desk ES 102 Monday-Thursday 8:00 a.m. - 9:00 p.m. Friday 8:00 a.m. - 5:00 p.m. (719) 587-7371 ascwebct@adams.edu

Your Instructor:

Comfort Cover- Visiting Assistant Professor School of Business cfcover@adams.edu
BUS-115 (719)587-7509

Welcome to System Analysis and Design!

This course provides you with the knowledge, skills, and abilities to enable you to analyze and design computer systems. Throughout the course you will complete several tasks associated with SCR Associates. SCR Associates is an information technology-consulting firm that offers IT solutions and training for small and medium sized companies. SCR is a fictitious company, which has just hired you starting today. During the course you will complete various activities associated with your new job. Each SCR session correlates to a chapter in the course. There are 11 SCR sessions, one for each chapter in your textbook. The course is broken up into 11 sections, one section for each chapter.

Within each chapter there are 3 assessments. The Self-Test and Self-Review Test are non-graded assessments and the system will show the answers. You can choose to take the Practice Test or complete the Chapter Discussion Question. If you complete both I will use the higher grade. The other assessments within each chapter module are practice only. There are 2 exams within the course, each have a study guide for your use. Both exams are timed and not proctored.

If you have any questions please do not hesitate to contact me, I am always willing to help.

Kind Regards,
Professor Comfort

Course Delivery:

Online-Based Correspondence Course

Credit Hours:

Three Semester Hours

Prerequisites:

BUS 320

Catalog Description:

The purpose of this course is to provide the student with an introduction to Systems Analysis and Design. Topics include analyzing the business case, requirements modeling, data and process modeling, and development strategies. Students also learn about output and user interface design, data design, systems architecture and implementation, and systems operation, support and security.

Student Learning Outcomes:

The student will be able to:

- Describe the Software Development Life Cycle (SDLC), and explain how it serves as a framework for systems development and business modeling.
- Describe the steps in a preliminary investigation and the end product of an investigation
- Analyze and create a system design for business cases
- Data and processing analysis
- Explain, analyze, and design system implementation requirements, interface and configuration requirements, systems operations, support services, and security methods and systems.
- Develop effective documentation methods to use during systems development
- Describe, understand, and draw data and process modeling concepts and tools, including data flow diagrams, a data dictionary, and process descriptions; and object models including objects, attributes, methods, messages, classes, and instances
- Describe and explain the advantages and disadvantages of software outsourcing options, including offshore outsourcing and the role of service providers
- Explain the transition from systems analysis to systems design, and the importance of prototyping
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Explain the concept of user interface design and human-computer interaction, including the basic principles of user-centered design

- Explain data design terminology, including entities, fields, common fields, records, files, tables, and key fields
- Describe data relationships, draw an entity-relationship diagram, define cardinality, and use cardinality notation, and the concept of normalization
- Explain client/server architecture, including tiers, cost-benefit issues, and performance

- Explain the difference between online and batch processing
- Define, describe and explain network topology, including hierarchical, star, bus, and ring models wireless network standards, advantages, and disadvantages
- Explain the importance of software quality assurance and software engineering
- Develop and differentiate between program, system, operations, and user documentation
- Develop an overall training plan with specific objectives for each group of participants, compare in-house and outside training providers, and describe effective training techniques
- Assess future challenges for IT professionals as technology reshapes the workplace

Course Requirements:

The course is broken up into 11 sections. Each section includes completing exercises related to the SCR simulation. Two tests are required. The first exam covers chapters 1 – 6; the final exam covers chapters 7 – 11. The toolkit sections of the textbook will assist you in completing the SCR assignments. The following assignments are to be completed within this course. Please see the course study guide for a detailed description of the assignments.

All assignments and tests will be completed and turned in using WebCT. Please ensure you have the required training to use WebCT.

Course Materials:

Required Textbook:

Shelly, Cashman, Rosenblatt,. *Systems Analysis and Design, 7th Edition*. ISBN: 1-423-91222-5

Computer / Internet Access:

Because components of this course require Internet and other computer use, it is imperative that you have access to a computer.

Grade Distribution and Scale:

In alignment with ASC academic policies, no D may apply to a major or minor field.

Grade Distribution:

<i>Course Assignments</i>	<i># of Assignments</i>	<i>Points per Assignment</i>	<i>Total Points</i>	<i>Approximate % of Grade</i>
DQs / Quiz	11	200	2200	24%
Examinations	2	1200	2400	27%
SRC Simulations 1 - 11	11	400	4400	49%
Total	13	9000	100%	

Scale:

<i>Points Earned</i>			<i>% of Total</i>		<i>Grade</i>
9000	to	8100	100.00%	90.00%	A
8098	to	7200	89.98%	80.00%	B
7198	to	6300	79.98%	70.00%	C
6200	to	5400	68.89%	60.00%	D
5398	to	0	59.98%	0.00%	F

ADA Statement:

Students who need special accommodation to complete this class should contact the instructor and the Office of Student Affairs, 719.587.7221 as soon as possible.

Note: Web sites are constantly changing and you may find that some have moved or are simply no longer available; contact your instructor with any questions