SUSSEX COUNTY COMMUNITY COLLEGE

Master College Syllabus

COMS210	SYSTEMS ANALYSIS & DESIGN	
COURSE #	COURSE TITLE	CLASSIFICATION
3	2	2
CREDITS	CLASS HOURS	LAB HOURS

RECOMMENDED TEXTS:

Title:	Systems Analysis and Design in a Changing World 7th Edition
Author:	Satzinger, Jackson, Burd
Publisher:	Cengage Learning
Edition/Date:	7th Edition 2016
ISBN:	978-1-305-11720

CATALOG DESCRIPTION

This course examines techniques of computer systems analysis and design with an emphasis on structuring a computer system based on the needs of the user. Final projects will provide students with practical use of contemporary system analysis and design tools.
Prerequisite: Any Programming Language.
Lab Fee Required.

PREREQUISITE: COMS113 or COMS114 or 120 or 142

TOPICS TO BE INCLUDED

1. Assuming the role of the Systems Analyst
2. Understanding organizational style and its impact on information systems
3. Determining feasibility and managing Analysis and Design activities
4. Sampling and investigating hard data
5. Interviewing
6. Using questionnaires
7. Observing decision-maker behavior and office environment
8. Prototyping
9. Using Data Flow Diagrams
10. Analyzing systems using data dictionaries
11. Describing process specifications and structured decisions
12. Analyzing Semi-structured Decision Support System
13. Preparing the Systems Proposal
14. Writing and presenting the System Proposal
15. Designing Effective Output
16. Designing Effective Input
17. Designing the File or Database
18. Designing the User Interface
19. Designing accurate data-entry procedures
20. Quality assurance through software engineering
21. Successfully implementing the information system
22. Object-oriented Systems Analysis and Design

COURSE COMPETENCIES/LEARNING OUTCOMES

In a manner deemed appropriate by the instructor and approved by the department, students will be able to:

1. Create a design of an informational system (A.S. Computer Information Systems, Program Goal 1, 3, 4, 5, 7).
2. Utilize design tools (A.A.S. Computer Information Systems, Program Goal 1, 2, 7).
3. Create structured specifications of systems requirements (A.S. Computer Information Systems, Program Goal 1, 3, 5, 7).
4. Differentiate between traditional and object oriented approaches to system design (A.S. Computer Information Systems, Program Goal 1, 7).
5. Understand how to deploy a new system (A.S. Computer Information Systems, Program Goal 1, 2, 7).

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