

CMPS 415
Systems Analysis and Design
Spring 2018

Provides the student with tools and techniques used in analyzing manual or automated information with a view toward computer implementation of these systems in terms of accuracy and efficiency. Analysis, design, and implementation phases of software systems development using a phased life cycle approach; modeling tools and CASE software. A team approach to software development and project management.

Textbook: Systems Analysis and Design 9th Edition Kendall & Kendall ISBN 978-81-203-4862

Supplemental Readings as assigned by the Instructor.

Lecture Time: 12:30 MW Rm 207 Thurman Hall

Instructor: Marilyn Antoine, Ph.D.

Course Coordinator: Marilyn Antoine, Ph.D.

Course Objectives:

Understand systems, roles, development methodologies, and modeling of organizational systems. Understand project management, interactive requirements gathering, and development of questionnaires. Understand agile modeling and prototyping. Create system life cycle deliverables such as use case diagrams, proposal, sequence diagrams, and project feasibility.

Course Learning Outcomes: Upon completing this course, students will be able to:

1. demonstrate proficiency and understanding of systems, roles, development methodologies, and modeling organizational systems.
2. demonstrate proficiency and understanding of project management, interactive requirements gathering, and developing questionnaires.
3. demonstrate proficiency and understanding of agile modeling and prototyping.
4. demonstrate proficiency in creating system life cycle deliverables such as use case diagrams, proposal, sequence diagrams, project feasibility, etc.

Course Topics: (15 weeks)

Week1	Understanding Systems, Roles, Development Methodologies
Week2	Understanding and Modeling Organizational Systems
Week 3	Creating Sequence Diagrams
Week4	Exam 1
Week 5	Project Management
Week 6-7	Interactive Requirements Gathering
Week 8	Exam 2
Week 9-10	Agile Modeling
Week 11-12	Prototyping
Week 13-14	Presentations & Term Project
Week 15	Exam 3

Administrative Information and Requirements

Class participation, tests/quizzes, examinations, hands-on computer instruction, projects, reports, library assignments, research papers, attendance, and other requirements as determined by the instructor.

Grading Distribution		Grading Scale	
Individual Assignments/Projects	40%	A	90-100
Exam 1	20%	B	80-89
Exam 2	20%	C	70-79
Exam 3	20%	D	60-69
Total	100%	F	0-59

LIVETEXT SUBSCRIPTION – Southern University and A&M College-Baton Rouge has entered into partnership with LiveText, Inc. to provide online academic resources for student collaboration and learning outcomes assessment. Therefore, all students enrolled in this course are required to purchase a subscription from LiveText, Inc. through the Southern University Bookstore. LiveText, Inc. provides students with the electronic tools and services needed to serve them in their courses and in their career or academic pursuits beyond graduation.

LiveText is a dynamic tool that will enable you to:

- Create electronic portfolios for storing and displaying coursework for use anytime and anyplace.
- Share your resumés, professional portfolios and virtually any projects that can be photographed, video recorded, and uploaded to prospective employers and others who need or want to know about your accomplishments.
- Engage in discussion boards with other students, exchange feedback, and create study groups and other types of social networks.
- Complete assignments in key/required courses where LiveText has been embedded (without LiveText, you will not be able to complete these assignments).
- Create a complete record of your academic career that is malleable and easily accessible.
- Engage in developing a results-driven culture of assessment at Southern University.
- Participate in a process that will allow for data-driven curricular improvements that foster improved student learning and performance.

MOODLE ACCESS – Southern University and A&M College at Baton Rouge will use Moodle extensively in this course. Moodle is a learning management system designed to help teachers and students communicate effectively online. The course syllabus, class materials (e.g., handouts, PowerPoint slides, journal articles, assignments, readings, etc.) will be placed on Moodle. The student should check Moodle DAILY for all assignments submitted via Moodle. If the student has problems with his Moodle account, he/she should contact Ms. Chrisena Williams-Brown in the Division of Information Technology via email at chrisena_williams@subr.edu or via phone at (225) 771-5017.

ACADEMIC DISHONESTY – The University defines academic dishonesty as premeditated and un-premeditated fraudulent behavior. Premeditated fraud is defined as conscious, pre-planned, deliberate cheating with materials prepared in advance. Unpremeditated fraud is defined as cheating without the benefit of materials prepared in advance. See the Southern University and A & M College Catalog for a more detailed definition of academic dishonesty. In addition, administrative regulations governing the conduct of students enrolled at the University are contained in the Code of Student Conduct. A copy of the Code of Student Conduct may be obtained from the Office for Student Affairs.

ADA COMPLIANCE – Students with documented disabilities who believe that they may need accommodations in this class are encouraged to contact the Disability Services Coordinator in the Office of Disability services, 234 A.C. Blanks Hall, 225-7713950 (Voice/TTD), 225-771-5652 (Fax), as soon as possible to ensure that such accommodations are implemented in a timely fashion. Students who need accommodations must be registered with the Office of Disability Services. Students are responsible for informing the instructor of any instructional accommodations and/or special learning needs at the beginning of the semester. All discussions will remain

COURSE ASSESSMENT:

Course Objectives	Course Learning Outcomes	Methods of Assessment	Target	Relationship to Program Learning Outcomes
<i>Students will be able to understand system roles, development methodologies, and modeling of organizational systems.</i>	Demonstrate proficiency in understanding systems, roles, development methodologies, and modeling of organizational systems	Outcome Rubric	80% will perform at the level of performance 2, 3 or 4 in achieving Outcomes a and e	ABET a and e
<i>Students will be able to use case tools, project management, and conduct requirements gathering.</i>	Demonstrate proficiency in understanding of project management and case tools, and requirements gathering	Outcome Rubric	80% will perform at the level of performance 2, 3 or 4 in achieving Outcomes a and e	ABET a and e
<i>Students will be able to use agile modeling and prototyping techniques</i>	Demonstrate proficiency in understanding of agile modeling and prototyping	Outcome Rubric	80% will perform at the level of performance 2, 3 or 4 in achieving Outcomes a and e	ABET a and e
<i>Students will be able to create various deliverables such as use case digrams, proposal, sequence diagrams, etc.</i>	Deonstrate proficiency in creating system life cycle deliverables such as use case diagrams, proposal, sequence diagrams, project feasibility, etc.	Outcome Rubric	80% will perform at the level of performance 2, 3 or 4 in achieving Outcomes a and e	ABET a and e