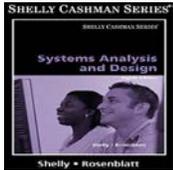# LaGuardia Community College

31-10 Thomson Avenue • Long Island City, New York 11101 • Voice: (718) 482-7200

Department:	**The Department of Mathematic, Engineering and Computer Science**
Course:	**MAC110 Systems Analysis and Design (3 Credits/4 Contact hours)**

Course Description:

This course provides an introduction to Systems Analysis and Design. Topics include analyzing the business case, requirements modeling, data and process modeling, and development strategies, with an increased focus on object modeling and project management. Students also learn about output and user interface design, data design, systems architecture and implementation, and systems operation, support, and security.

Text/Materials: Text: Systems Analysis and Design, Eighth Edition, Video Enhanced
ISBN: 0-538-47443-2

Teaching Methods:

1. Lectures: Important material from the text and outside sources will be covered in class. Students should plan to take careful notes as not all material can be found in the texts or readings. Discussion is encouraged as is student-procured outside material relevant to topics being covered.
2. Assignments: End of chapter activities and online activities will be assigned weekly to reinforce material in the text. These assignments may require the application of various software packages.
3. Quizzes: Occasional unannounced quizzes will be given to help ensure students stay up with assigned material.
4. Exams: Three exams will be given. The exams will be closed book/notes and will test assigned readings and material discussed in class. Review sheets will be provided prior to the exam day. The final exam will not be comprehensive in nature. However, the instructor reserves the right to retest on material that was not appropriately comprehended. These items will be noted on exam review sheets.
5. Participation: Student participation will be graded by the level of class participation and attendance.

GRADING SYSTEM

Effective Fall, 1999 LaGuardia Community College has adopted a plus and minus grading system. LaGuardia Community College will not utilize the A+ within our grading system.

Grading:		GPA:
A-, A	90.0 – 100	A = 4.00 A- = 3.70
B-, B, B+	80.0 – 89.9	B+ = 3.30 B = 3.00 B- = 2.70
C-, C, C+	70.0 – 79.9	C+ = 2.30 C = 2.00 C = 1.70
D-, D, D+	60.0 – 69.9	D+ = 1.30 D = 1.00 D- = 0.70
F	Failure	F = 0.0

This course is assigned 100% as follows:

- Cases and Projects   50%
- Three Examination   30%
- Final Examination   20%
                                            100%

*Note: Total points will be computed as follows. The total points for quizzes, cases, and assignments may vary.

ATTENDANCE POLICY: (Effective Fall 2005)

- Attendance in class is a requirement and will be considered in the evaluation of student performance. Instructors are required to keep an official record of student attendance. The maximum number of unexcused absences is limited to 15% of the number of class hours.

Note: Absences are counted from the first day of class even if they are a result of late registration or change of program.

ACADEMIC DISHONESTY

- Academic Dishonesty is prohibited in the City University of New York and is punishable by penalties ranging from a grade of "F" on a given test, research paper or assignment, to a an "F" in the course, or suspension or expulsion from the College, Academic Dishonesty includes: CHEATING, PLAGIARISM, INTERNET PLAGIARISM, FALSIFICATION OF RECORDS AND OFFICIAL DOCUMENTS, and OBTAINING UNFAIR ADVANTAGE**.**

THE INCOMPLETE GRADE

- The Incomplete grade may be awarded to students who have not completed all of the required course work but for whom there is a reasonable expectation of satisfactory completion. A student who is otherwise in good standing in a course – defined as complying with the college attendance policy and maintaining a passing average – but who has not completed at most two major assignments or examinations by the end of the course may request an incomplete grade. To be eligible, such a student must provide, before the instructor submits for the course, a documented reason, satisfactory to the instructor, for not having completed the assignment on time.

COURSE POLICIES:

1. <u>Missed Classes</u>: The student is responsible for obtaining material distributed on class days when he/she was absent. This can be done through contacting a classmate who was present or by contacting the instructor during his office hours or other times. Missed or late quizzes can not be made up under any circumstances but with good cause and adequate notice, an early quiz may be given. One quiz (lowest score) will be dropped at the end of the semester.

2. <u>Assignments</u>: All assignments are due at the beginning of class on the date due. Late submission of assignments will be assessed a penalty of 10% per day. No exceptions are made.

3. <u>Need for Assistance</u>: If you have any condition, such as a physical or learning disability, which will make it difficult for you to carry out the work as I have outlined it, or which will require academic accommodations, please notify me as soon as possible.

Course Outline
Assignment Descriptions:
Learn It Online: The Learn It Online section directs students to Web-based exercises, which are fun, interactive activities that include chapter reinforcement (true/false, multiple choice, and short answer questions), flash cards, practice tests, games, and a crossword puzzle challenge to augment concepts, key terms, techniques, and other material in the chapter.

Case-Sim: SCR Associates: This case study is a Web-based simulation that allows students to practice their skills in a real-world environment. Refer students to scsite.com/sad8e/scr for detailed instructions about the SCR Case.

Chapter Exercises: The Chapter Exercises include short exercises and review questions that reinforce concepts and provide opportunities to practice skills.

Apply Your Knowledge: The Apply Your Knowledge exercises let students apply their knowledge of systems analysis and design in four mini-cases.

Case Studies: In each of four assignments, realistic business scenarios are presented, requiring students to answer questions of varying difficulty.

Week		Assignment
1	Chapter 1	Learn It Online
	Toolkit 1	SCR Associates
2	Chapter 2	Learn It Online
		Apply Your Knowldg
3	Chapter 3	SCR Associates
		Case Studies
4	Chapter 4	Learn It Online
		New Century Case
5	Chapter 5	Learn It Online
		SCR Associates
6	Chapter 6	Learn It Online
	Toolkit 3	Apply Your Knowldg
7	Chapter 7	Learn It Online

		Chapter Exercises
8	Chapter 8	SCR Associates
		Apply Your Knowldg
9	Chapter 9	Learn It Online
		Case Studies
10	Chapter 10	Learn It Online
		Chapter Exercises
11	Chapter 11	Learn It Online
	Toolkit 2	SCR Associates
12	Chapter 12	Learn It Online
	Toolkit 4	Chapter Exercises
13	Final Test	Extra Credit Due