

## Systems Analysis and Design (CSC 250, CRN 3386)

**Instructor** Stacy Walker

**Email** [swalker@gatewayct.edu](mailto:swalker@gatewayct.edu)

**Office Hours** By Appointment Only  
[Click here](#) to make an appointment

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### Days and Time:

Wednesday 10:40AM – 12:00PM

### Text and Supplies:

Cengage Unlimited 4 Months  
ISBN: 9780357700006

OR

Cengage Unlimited 12 Months  
ISBN: 9780357700013

### Description:

This is a three credit, introductory systems analysis and design course. The course is designed to

- Explain systems analysis and design
- Introduce project management concepts early in the systems development process
- Challenges students with book materials such as Question of Ethics mini-cases that ask students to respond to real-life ethical issues in an IT environment
- Provide multi-method coverage, including a comparison of structured, object-oriented, and agile systems development methods
- Emphasize the importance of planning, implementing, and managing an effective IT security program
- Explain how IT supports business requirements in today's intensely competitive environment, and describe major IT developments and trends

### Goals:

- Describe and model the concept of a system's identification and its boundaries with the outside world
- Describe and apply various structured analysis and design techniques
- Critically evaluate the modeling process by establishing consistency between the output of the different modeling techniques
- Apply available automated CASE tools for diagrammatic modeling and documentation consistency
- Contribute to the work of a group working on analysis and design tasks
- Consider the social aspects of undertaking systems analysis and design in commercial and other institutional environments
- Organize and present technical material in a professional manner
- Carry out peer evaluation and personal reflection

### Grading:

The final grade for Systems Analysis and Design, CSC-250, will be based on the following components. Registration for this course means that the student agrees to fulfill the requirements for this course. Students should make every effort to take the examinations and complete the laboratory projects and the homework assignments.

If a student is absent or late, the student is responsible for getting the course notes, handouts, and any laboratory assignments missed.

Component	Weight	Points
Case in Point Quiz	40%	400
Projects	40%	400
Discussion	20%	200

Student Grades shall be consistent with Gateway Community College's Grading Policy. Students who are having difficulties with their course work and need assistance are strongly encouraged you to use the lab assistant that are provided.

### Grading System

Gateway Community College's values for grades awarded which are used for the calculation of grades, averages and related matters are as follows:

Letter Grade	Point Ranges	Grade Point Value
A	950 - 1000	4.00
A-	900 - 949	3.667
B+	890 – 899	3.333
B	810 – 889	3.000
B-	800 – 809	2.667
C+	790 - 799	2.333
C	710 – 789	2.000
C-	700 – 709	1.667
D+	690 – 699	1.333
D	610 – 679	1.000
D-	600 – 609	.0667
F	0 - 599	0.000

### Course Policies:

#### Late Homework & Class Projects

**Projects must be turned in on time to receive points.**

## Student Conduct in Class Policy

Any acts of classroom disruption that go beyond the normal rights of students to question and discuss with instructors the educational process relative to subject content will not be tolerated, in accordance with Gateway Community College's Academic Code of Conduct as described in the Gateway Community College's Student Handbook.

## Examination Policy

To prepare for examinations, attend lectures and read the chapters. Approx. 100 % of the questions will be taken directly from the reading material assigned. Review the Reference Summary at the end of each chapter for a summary of the main topics covered in each chapter in preparation for the tests.

## Incomplete Policy

Students will not be given an incomplete grade in the course without sound reason and documented evidence as described in the Gateway Community College's Student Handbook. In any case, for a student to receive an incomplete, he or she must be passing and must have completed a significant portion of the course.

## Accessibility Statement:

Students with Disabilities (including short-term impairments): If you are a student with a documented disability and you believe you will need accommodations or academic adjustments for this class, it is your responsibility to contact Student Accessibility Services (SAS) at 203-285-2231; [rchomicz@gatewayct.edu](mailto:rchomicz@gatewayct.edu) and/or [smurphy1@gatewayct.edu](mailto:smurphy1@gatewayct.edu). To avoid any delay in receipt of accommodations or academic adjustments, you should contact SAS as soon as possible. In response to your request, SAS may ask you to provide supporting medical documentation, diagnostic test results or professional prescriptions to evaluate your request for the accommodations or academic adjustments. SAS may also obtain its own professional determination of whether specific requested accommodations or academic adjustments are necessary. Please note that accommodations or academic adjustments cannot be provided until approved and an accommodation letter from SAS has been received by faculty and student. If you experience a temporary impairment or medical condition and it interferes with your schoolwork, call SAS at 203-285-2231; [rchomicz@gatewayct.edu](mailto:rchomicz@gatewayct.edu) and/or [smurphy1@gatewayct.edu](mailto:smurphy1@gatewayct.edu).

## Please Note:

During the fall 2020 semester, in-person access to the Gateway campus is limited, but you will have access to all the resources that you need throughout the semester. Your faculty will hold all of their scheduled office hours remotely (e.g., WebEx, Teams, Bb Collaborate, etc.), the Writing Center is online, and most Student Services functions can be completed remotely.

Librarians are available remotely and book pick up can be arranged. Please ask your faculty about how to access services or contact the Student Success Center. If you do need to come to campus, you must have an appointment and you must wear a mask.

**Student Mental Health and Well-Being:** Gateway Community College is committed to your well-being. The Counseling and Wellness Center offers holistic wrap-around services in an inclusive and judgment free environment. Services include crisis counseling, 1:1 solution focused brief counseling, counseling groups, workshops, and community referral services. If you or someone you know needs support, please call 203-285-2480, email [GW-Wellness@gatewayct.edu](mailto:GW-Wellness@gatewayct.edu). Our office hours are Monday - Friday, 8:00am - 4:30pm. If you or someone you know is experiencing a crisis after hours, please call 911 if it's an emergency, 211 Crisis hotline, or 741741 to connect with a clinician via the crisis text line. For a list of other mental health services on and off campus, please [click here](#).

## Tentative Fall 2020 Schedule:

Week 1	8/26	Course Introduction	
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Week 2	9/2	Module 1	Introduction to Systems Analysis and Design
Week 3	9/9	Module 2	Analyzing the Business Case
Week 4	9/18	Module 3	Managing Systems Projects
Week 5	9/16	Module 4	Requirements Engineering
Week 6	9/23	Module 5	Data and Process Modeling
Week 7	9/30	Module 6	Object Modeling
Week 8	10/7	Module 7	Development Strategies
Week 9	10/14	Module 8	User Interface Design
Week 10	10/21	Module 9	Data Design
Week 11	10/28	Module 10	System Architecture
Week 12	11/4	Module 11	Managing Systems Implementation
Week 13	11/11	Module 12	Managing Systems Support and Security
Week 14	11/18	Make-up Work	
Week 15	11/25	No Class	Thanksgiving Break
	12/9	Post-Course Assessment Due	