HUDSON COUNTY COMMUNITY COLLEGE
CSC 231 - Information Analysis and Design
Credits: 3
Prerequisite: CSC 101 or CSC 111 or CSC 115 OR CSC 118 OR CSC 118

Instructor:
Office Location:
Office Hours:
Phone:
E-mail:

Required Text
Laudon K., Laudon J. (2012). Management Information Systems: Managing the Digital Firm, Fourteenth Edition. Upper Saddle River: Prentice Hall

Course Description

The course will cover the basic theoretical and analytical foundations for systems planning, formulating strategic plans, optimizing operations in business, designing information systems, and augmenting business activities on web. Topics include five systems cycles, hardware selection criteria, input/output design, file structures, database design and security implementation. This is a case study-oriented course.

Course Objectives
- Students will learn to assess how information systems are essential for running and managing businesses.
- Students will understand what exactly is an information systems and how does it work.
- Students will learn to identify ethical, social, and political issues raised by information systems.
- Students will learn to evaluate how an information system affects everyday life.
- Students will understand (Information Technology) infrastructures and its components.
- Students will learn important principles of database design.
- Students will understand the principle components of telecommunications network and key networking technologies.
- Students will understand how information systems are vulnerable to destruction, error and abuse.

Attendance
Regular attendance is vital. If you miss one day's lecture, it will be very difficult for you to understand the following lecture because each lecture is based on the previous one. A student who is absent more than two times will lose an entire grade (for example, if you currently have an A, you will now have an A-). Each subsequent absence will cause you to lose an additional grade. It is **your** responsibility to make up any missed work. In the event that you must miss a class, you must provide me with either a doctor's excuse, note from counselor, etc.

Evaluation Criteria

Your final grade will be based on the following criteria:

Item	Weight
Two Exams	25%
Midterm Exam	20%
Final Exam	20%
Case Studies and Projects	35%

ACADEMIC INTEGRITY

Academic integrity is central to the pursuit of education. For students at HCCC, this means maintaining the highest ethical standards in completing their academic work. In doing so, students *earn* college credits by their honest efforts. When they are awarded a certificate or degree, they have attained a goal representing genuine achievement and can reflect with pride on their accomplishment. This is what gives college education its essential value.

Violations of the principle of academic integrity include:

- Cheating on exams.
- Reporting false research data or experimental results.
- Allowing other students to copy one's work to submit to instructors.
- Communicating the contents of an exam to other students who will be taking the same test.
- Submitting the same project in more than one course, without discussing this first with instructors.
- Submitting *plagiarized* work. *Plagiarism* is the use of another writer's words or ideas without properly crediting that person. This unacknowledged use may be from published books or articles, the Internet, or another student's work.

When students act dishonestly in meeting their course requirements, they lower the value of education for all students. Students who violate the college's policy on academic integrity are subject to failing grades on exams or projects, or for the entire course. In some cases, serious or repeated instances of academic integrity violations may warrant further disciplinary action.

Disability Support Services

Students with disabilities who believe that they might need accommodations in this class are encouraged to contact the Disability Support Services at 201-360-4157 as soon as possible to better ensure that such assistance can be implemented in a timely fashion. All disabilities must be documented by a qualified professional such as a physician, licensed learning disability teacher (LDTC), psychologist, psychiatric nurse, licensed social worker or licensed professional counselor, who is qualified to assess the disability that the student claims to have and note recommendations on accommodations for the student. All information provided to the Disability Support Services Program will be confidential between the program, professors involved with the student, and the individual student.

Classroom Recording Policy

Hudson County Community College prohibits the audio-visual recording, transmission, and distribution of classroom sessions. Classes may only be recorded with the advance written permission of the instructor. The complete classroom recording policy is listed in the student handbook.

Diversity, Equity, & Inclusion Statement

Hudson County Community College (HCCC) fosters a welcoming environment that celebrates and encourages culturally responsive curricula, respects diverse viewpoints, and values discussions without censure or hostility. Our classrooms are strengthened by embracing all student voices and identities. The President's Advisory Council on Diversity, Equity, and Inclusion (PACDEI) encourages students to review DEI resources and initiatives at the following link: https://www.hccc.edu/abouthccc/dei/pacdei.html

Email Policy

Mandatory Use of HCCC Email Address: Members of the HCCC community are required to check their official HCCC email address to stay current with college and course communications. All college business communication between faculty, students, and staff must be sent via an official HCCC email address. If an employee or student elects to forward or link his/her HCCC email to a separate and private account, that individual remains responsible for all material transmitted to that account. Employees of HCCC shall not be responsible for any material that remains undelivered, due to defects in the private non-HCCC accounts. Failure in the operations of private email accounts shall not be cause for excuse from communications between the student and the HCCC employee. Students that encounter difficulty with HCCC email should view the FAQ's section on the Website.

Emergency Notifications

In case Hudson County Community College is closed due to unforeseen circumstances such as inclement weather, loss of power, etc., students are to call or check the college website and check email accounts for instructions and updates, when possible. HCCC main# (201) 714-7100 or http:/www.hccc.edu. Alternatively, please check Canvas and your college email for important posts regarding classes and the College.

Financial Aid & Attendance Statement

Federal regulations require that students earn their financial aid funds by attending class. Professors collect and report attendance information to verify financial aid eligibility. Failure to begin attending a course may negatively impact the student's financial aid enrollment level and eligibility. If you have any questions, please contact the Financial Aid office at financial_aid@hccc.edu or 201-360-4200.

COVID-19 Syllabus Statement

HCCC strongly recommends that all members of the college community get the COVID-19 vaccine and booster. Additionally, N95 masks are available at building entrance security desks for anyone who would prefer to wear one. Everyone should continue to monitor themselves for symptoms and stay home if they are sick. Please refer to the Return to Campus webpage: (www.hccc.edu/community/returntocampus/index.html), the Return to Campus FAQs:

(www.hccc.edu/community/returntocampus/faq.html), and all Return to Campus email communications for more information and updates.

Weekly Calendar

Week 1

Chapter 1: Information Systems and in Global Business Today

- **How are information systems transforming business and why are they so essential for running and managing a business today?**
- **What is an information system? How does it work? What are its management, organization, and technology components? Why are complementary assets essential for ensuring that information systems provide genuine value for organizations?**
- **What academic disciplines are used to study information systems and how does each contribute to an understanding of information systems?**
- **How will MIS help my career?**

Week 2

Chapter 2: Global E Business and Collaboration

- **What are business processes? How are they related to information systems?**
- **How do systems serve the different management groups in a business and how do systems that link the enterprise improve organizational performance?**

Week 3

Chapter 2 (Continues)

- **Why are systems for collaboration and social business so important and what technologies do they use?**
- **What is the role of the information systems function in a business?**

Week 4

Review
Test 1

Week 5:

Chapter 3: Information Systems, Organizations, and Strategy

- **Which features of organizations do managers need to know about to build and use information systems successfully?**
  What is the impact of information systems on organizations?
- **How do Porter's competitive forces model, the value chain model, synergies, core competencies, and network economics help companies develop competitive strategies using information systems?**

Week 6

Chapter 3 (Continues)

- What are the challenges posed by strategic information systems and how should they be addressed?

Chapter 4: Ethical and Social Issues in Information Systems

- What ethical, social, and political issues are raised by information systems?
- What specific principles for conduct can be used to guide ethical decisions?

Week 7

Chapter 4(Continues)

- Why do contemporary information systems technology and the Internet pose challenges to the protection of individual privacy and intellectual property?
- How have information systems affected laws for establishing accountability, liability, and the quality of everyday life?

Week 8

Review
Midterm Exam

Week 9

Chapter 5: IT Infrastructure and Emerging Technologies Mutual Exclusion: Software Approaches

- What is IT infrastructure and what are the stages and drivers of IT infrastructure evolution?
- What are the components of IT infrastructure?
- What are the current trends in computer hardware platforms?

- What are the current computer software platforms and trends?
- What are the challenges of managing IT infrastructure and management solutions?

Week 10

Chapter 6: Foundations of Business Intelligence: Databases and Information Management

- What are the problems of managing data resources in a traditional file environment?
- What are the major capabilities of database management systems (DBMS) and why is a relational DBMS so powerful?
- What are the principal tools and technologies for accessing information from databases to improve business performance and decision making?
- Why are information policy, data administration, and data quality assurance essential for managing the firm's data resources?

Week 11

Review
Test 2

Week 12

Chapter 7: Telecommunications, the Internet, and Wireless Technology

- What are the principal components of telecommunications networks and key networking technologies?
- What are the different types of networks?
- How do the Internet and Internet technology work, and how do they support communication and e-business?
- What are the principal technologies and standards for wireless networking, communication, and Internet access?

Week 13

Chapter 8: Securing Information Systems

- Why are information systems vulnerable to destruction, error, and abuse?
- What is the business value of security and control?
- What are the components of an organizational framework for security and control?
- What are the most important tools and technologies for safeguarding information resources?

Week 14

Review

Week 15

Final Exam