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**CPSC 351**  
**INFORMATION SYSTEMS DESIGN AND IMPLEMENTATION**

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**Instructor:** Prof. Aaron Koehl  
aaron.koehl@cnu.edu

**Office Hours:** Luter 346, MW 11am-noon, and by appointment.

**Meeting Times:** MW 4:00-5:15 in Luter 322

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**OVERVIEW**

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Lecture/project-based course for systematic design, implementation, and maintenance of computer information systems. From given requirements for a computer information system, course guides student in methods, tools, and techniques for realizing the desired system.

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**VISION**

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In this course, you will be exposed to topics in the design of information systems. Information systems rarely exist for the sake of the technology they're built upon; rather, they are deployed to solve real business problems for real users. Upon finishing this two-part course, it is expected that you will:

- Develop an understanding and appreciation for the functions of the information systems analyst.
- Understand core concepts and principles used when analyzing information systems.
- Be exposed to some of the many tools used by systems analysts.
- Understand how to model information and data within a business entity.
- Understand information systems within the context of a greater system.
- Be able to design and deploy an information system based on detailed specifications.

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**TEXT**

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Rosenblatt. Systems Analysis and Design 10th Ed., Cengage/Course Technology: Boston, Massachusetts. 2014.

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**LECTURES**

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Students are responsible for attending lectures and reading book chapters before covering them in class. Some of the material is complex, and will require multiple reviews to ensure understanding. Students will not be successful if lectures are missed. A participation grade is incrementally built through the semester.

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**ASSESSMENT**

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There will be two partial-term exams during the semester, and a comprehensive final exam. We will also have several design and implementation projects throughout the semester.

The grading breakdown is as follows:

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|-------------------------|-----|
| • Coursework            | 25% |
| • Mid-terms (x2)        | 30% |
| • Final Exam            | 20% |
| • Term Project          | 15% |
| • Participation/Quizzes | 10% |

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**HONOR POLICY**

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*"On my honor, I will maintain the highest possible standards of honesty, integrity, and personal responsibility. That means I will not lie, cheat, or steal and as a member of this academic community, I am committed to creating an environment of respect and mutual trust."*

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**DISABILITIES**


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In order for a student to receive an accommodation for a disability, that disability must be on record in the Dean of Students' Office, 3rd Floor, David Student Union (DSU). If you believe that you have a disability, please contact Dr. Kevin Hughes, Dean of Students (594-7160) to discuss your needs. Dean Hughes will provide you with the necessary documentation to give to your professors.

Students with documented disabilities are required to notify the instructor no later than the first day on which they require an accommodation (the first day of class is recommended), in private, if accommodation is needed. The instructor will provide students with disabilities with all reasonable accommodations, but students are not exempted from fulfilling the normal requirements of the course. Work completed before the student notifies the instructor of his/her disability may be counted toward the final grade at the sole discretion of the instructor.

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**ACADEMIC SUPPORT**


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The Center for Academic Success offers free tutoring assistance for CNU students in several academic areas. Staff in the center offer individual assistance and/or workshops on various study strategies to help you perform your best in your courses. The center also houses the Alice F. Randall Writing Center. Writing consultants can help you at any stage of the writing process, from invention, to development of ideas, to polishing a final draft. The Center is not a proofreading service, but consultants can help you to recognize and find grammar and punctuation errors in your work as well as provide assistance with global tasks. Go as early in the writing process as you can, and go often!

You may drop by the Center for Academic Success to request a tutor, meet with a writing consultant, pick up a schedule of workshops, or make an appointment to talk one-on-one with a University Fellow for Student Success. The Center is located in the Tribble Library, second floor, room 240.

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**SUCCESS**


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I want you to succeed in this course and at CNU. I encourage you to come see me during office hours or to schedule an appointment to discuss course content or to answer questions you have. If I become concerned about your course performance, attendance, engagement, or well-being, I will speak with you first. I also may submit a referral through our Captains Care Program. The referral will be received by the Center for Academic Success as well as other departments when appropriate (Counseling Services, Office of Student Engagement). If you are an athlete, the Athletic Academic Support Coordinator will be notified. Someone will contact you to help determine what will help you succeed. Please remember that this is a means for me to support you and help foster your success at CNU.

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**COURSE OUTLINE\***


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\* MAY CHANGE

<b>TOPIC</b>	<b>Resources</b>
<b>Systems Design</b>	
Acquiring Technology	Ch. 7, APX C
Data Modeling and Design	Notes, Ch. 5
User Interface Design	Ch. 8
Database Design Revisited	Ch. 9
<b>Systems Implementation</b>	
System Architecture	Ch. 10
Implementation Management	Ch. 11
Support and Security	Ch. 12
<b>Skills Lab</b>	
Rapid App. Development Techniques	Lab / Notes

**Important Dates**

Spring Break	March 3-7
Last Day of Class	Monday, April 21