

Advanced Application Development

CIS-248 1

Spring Term 2024-2025 School Year Section 1 3.00 Credits 01/13/2025 to 05/09/2025
Modified 01/13/2025

Course Description

Provides experience in computer information project management and development. The student or a small group of students working together will design and develop a complete information systems project from start to finish. This will include utilizing the complete system development life cycle, with emphasis on the analysis and design phases of development. Students will be exposed to concepts such as project analysis, data flow diagrams, selection of design tools, creation of project schedules, project budgeting, prototyping, system proposals, user feedback, graphical user interface (GUI) design, and testing/quality assurance procedures. Prerequisite: CIS 130, plus a minimum of 4 credits in one programming language.

Outcomes

Technical Skills

- Students will demonstrate the ability to apply SDLC techniques to solve a software problem.

Critical Thinking

- Students will analyze project requirements and select appropriate tools/measures to complete the project.

Professionalism

- Students will demonstrate initiative in completing group work by dividing tasks for themselves and group members, and assisting in focusing the team on strengthening the project.
- Students will create technical documentation that clarifies the use, purpose, and intent of their code/programs.

Communication

- Students will align, present and summarize their work in respect to time constraints and intended audience.

- Students will recognize and apply industry standard terminology.
- Students will communicate their progress on projects and utilize time management skills to complete projects on time.

Course Materials

N/A

No materials or textbooks will be required, other than your laptop.

Deliverables

Visible on Coursework Page

The coursework page should have all deliverables available and visible at the beginning of the course.

Evaluation Procedures and Grading

Criteria

Type	Weight	Topic	Notes
Weekly Reports	5%		You will complete weekly status updates on your current progress, worth 5% total.
Deliverables	65%		Deliverables will be worth 5% per piece, not including the final project or presentation. Grading of deliverables will be based on how well they align your vision with the current plan/production of your program.
Final Project and Presentation	30%		

Course Outline

When	Topic	Notes
The Software Development Lifecycle Weeks 1-4	SDLC	Lectures introducing the SDLC
Deliverables Labs Weeks 5-15	SDLC	In depth exploration and review of the SDLC, including work time on deliverables to apply skills

When	Topic	Notes
Presentations Week 16	Project Delivery	Final presentations and Capstone completion