

CIT 280 - SYSTEMS ANALYSIS AND DESIGN

- Explore how well designed systems add value to society.

Learning How to Learn:

- Develop a set of professional resources to maintain throughout their career.
- Independently seek out solutions to problems.

Course Description

This is the capstone course in the CIT Developer AAS. Students will gain practical knowledge in systems analysis and design through participation in a team-based software/hardware project that follows the systems development life cycle using agile development with industry patterns and practices. A capstone project will be developed and presented to stakeholders. Students will conduct a feasibility study, perform requirements analysis, model objects and data, develop and test the solution, and communicate effectively. Group 2 course.

Credit Hours

4

Contact Hours

5

Lecture Hours

3

Lab Hours

2

Required Prerequisites

CIT 255 with a grade of 2.0 or higher.

General Education Outcomes supported by this course

Critical Thinking - Direct

Course Learning Outcomes

Knowledge:

- Describe how systems analysis contributes to successful application development.
- Compare and contrast systems analysis and design methodologies.

Application:

- Document system requirements and architecture using a variety of systems analysis graphical representations, tools, and techniques.

Integration:

- Use an appropriate systems analysis and design methodology to develop a complete and original information solution that will include requirement collection, feasibility verification, cost justification, proposal, project planning and management, design, construction, testing, deployment, and documentation.

Human Dimension:

- Demonstrate interpersonal communication skills while discussing systems analysis and design decisions with team members and stakeholders.
- Demonstrate the ability to effectively critique their peer's work.
- Construct a functional user interface (UI) and experience (UX).
- Meet with and respond to stakeholders in a professional, timely manner.

Caring - Civic Learning: