CIT 280 - SYSTEMS ANALYSIS AND DESIGN

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 a review group. 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

Recommended Prerequisites or Skills Competencies

CIT 228

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).

Caring - Civic Learning:
- Explore how well designed systems add value to society.

Learning How to Learn:
- Develop a set of professional resources to maintain throughout their career.