

**CS 460 – Senior Project**

**Credit Hours:** 3

**Scheduled hours per week**

Lecture: 3

Lab:

Other:

**Catalog Course Description:** Students will present a systems analysis and design project as a final senior project in Computer Information Systems. Capstone course.

**Pre-requisites:** STEM 420, CS 302, CS 320, CS 321, CS 403, and CS 404 must be passed with a grade of C or higher, or taken concurrently

**Co-requisites:** STEM 420, CS 302, CS 320, CS 321, CS 403, and CS 404 must be passed with a grade of C or higher, or taken concurrently

**Course Learning Outcomes:**

Students should have an understanding of and be able to apply the following concepts:

- To demonstrate a comprehensive knowledge and understanding of topics taught in the BAT – Software Engineering degree, and the ability to apply those concepts to a real world situation.
- Take a comprehensive program assessment to show industry competencies learned throughout your degree

**Topics to be studied:**

<ul style="list-style-type: none"> <li>• Selecting a Project</li> <li>• Gathering Requirements</li> <li>• Designing a Solution</li> <li>• Implementing a Solution</li> </ul>	<ul style="list-style-type: none"> <li>• Verification</li> <li>• Developing a Maintenance Plan</li> <li>• Deploying a Solution</li> <li>• Program Assessment</li> </ul>
--	---

**Relationship of Course to Program or Discipline Learning Outcomes:**

BAT-Software Engineering

✓	Ability to understand, plan, and execute good Project Management
✓	Ability to recognize and apply industry recognized code of ethics to various situations
✓	Ability to understand and apply Information Security concepts and best practices
✓	Ability to understand, plan, and implement good Systems Analysis and Software Engineering
✓	Ability to understand, plan, implement, and troubleshoot Mobile Applications and related technologies
✓	Ability to understand, plan, implement, and troubleshoot Advanced Web Design and Web Services technologies

For general education courses, a listing of the general education competencies that are met.)

<b>Relationship of Course to General Education Learning Outcomes:</b>	
<b>Composition and Rhetoric</b> Students illustrate a fundamental understanding of the best practices of communicating in English and meet the writing standards of their college or program-based communication requirements.	✓
<b>Science &amp; Technology</b> Students successfully apply systematic methods of analysis to the natural and physical world, understand scientific knowledge as empirical, and refer to data as a basis for conclusions.	✓
<b>Mathematics &amp; Quantitative Skills</b> Students effectively use quantitative techniques and the practical application of numerical, symbolic, or spatial concepts.	✓
<b>Society, Diversity, &amp; Connections</b> Students demonstrate understanding of and a logical ability to successfully analyze human behavior, societal and political organization, or communication.	
<b>Human Inquiry &amp; the Past</b> Students interpret historical events or philosophical perspectives by identifying patterns, applying analytical reasoning, employing methods of critical inquiry, or expanding problem-solving skills.	✓
<b>The Arts &amp; Creativity</b> Students successfully articulate and apply methods and principles of critical and creative inquiry to the production or analysis of works of art.	✓
<b>5/3/2016</b>	

**Special requirements of the course:**

You will need a computer with an Internet connection

**Additional information:**

**Prepared by:** Charles Almond

**Date:** 10/20/2017