

## **CIS 220 - Enterprise Architecture**

### **5.0 Credits**

Introduction to enterprise systems architectures from various perspectives; covers conceptual frameworks and considerations for managing enterprise application integration projects, relationships between components of systems, and research of emerging technologies.

Prerequisite: Completion of one of the following courses with a grade of 2.5: [CIS 116](#) or [CIS 125](#).

### **Course Objectives**

Upon successful completion of this course, students will be able to:

1. Recognize and describe a variety of common industry frameworks and models for enterprise architecture analysis and decision-making. [COMMUNICATE]
2. Understand and describe the role of business architectures, motivations and goals in determining appropriate information systems architectures and solutions. [REASON]
3. Research and describe the core concepts, benefits and risks of data/information architectures and evaluate existing data/information architecture designs. [REASON]
4. Research and describe the core components, benefits and risks of various application architectures and evaluate existing application architecture designs. [REASON]
5. Research and describe the core concepts, benefits and risks of various technology solution architectures and evaluate existing architecture designs. [REASON]
6. Research and describe the core concepts, benefits and risks of various network architectures and evaluate existing architecture designs. [REASON]
7. Understand and describe the concepts, benefits and risks of various architectural approaches such as multi-tier and service-oriented architectures. [REASON]
8. Evaluate and plan for the integration of emerging technologies. [REASON]
9. Evaluate the total cost of ownership and return on investment for architecture alternatives. [REASON]