CMP-9701CS

Pre-Candidacy Prospectus Course for Computer Science

(3 credits)

## Course Description:

The Pre-Candidacy Prospectus is intended to ensure students have mastered knowledge of their discipline prior to candidacy status and demonstrated the ability to design empirical research as an investigator before moving on to the dissertation research coursework. Students will demonstrate the ability to synthesize empirical, peer-reviewed research to support all assignments in this course. The Pre-Candidacy Prospectus is completed only after all foundation, specialization, and research courses have been completed.

## Number of Activities: 8

## Course Learning Outcomes:

1. Synthesize relevant theory and scholarly research to support the study of a research problem in the field of computer science.
2. Select an appropriate research method and design to address a research problem within the student’s degree specialization in the field of computer science.
3. Integrate ethical standards with principles of professional practice in research design.
4. Construct a plan for completing a research study in the field of computer science.

## Course Concepts:

1. Problem Statement
2. Purpose Statement
3. Research Questions
4. Scholarly Literature
5. Research Methodologies
6. Research Designs

## Primary Resource/textbook:

No Primary Resources.

# Course Overview

### Section 1: Topic Selection, the Research Problem, Purpose, and Questions

#### Week 1: Annotated Bibliographies

##### Week 1 Assignment: Create an Annotated Bibliography and Justify Your Topic (Non-Graded)

#### Week 2: The Problem Statement

##### Week 2 Assignment: Create a Problem Statement (Non-Graded)

#### Week 3: The Purpose Statement

##### Week 3 Assignment: Create a Purpose Statement (Non-Graded)

#### Week 4: Research Questions

##### Week 4 Assignment: Develop Research Questions (Non-Graded)

#### Week 5: Revisions

##### Week 5 Assignment: Integrate Feedback to Revise Key Pieces of Research (Non-Graded)

### Section 2: Method, Design, Introduction, and Background

#### Week 6: Methods and Design

##### Week 6 Assignment: Select a Possible Method and Design (Non-Graded)

#### Week 7: Introduction and Background

##### Week 7 Assignment: Provide an Introduction (Non-Graded)

### Section 3: The Prospectus

#### Week 8: Culminating Research Project

##### Week 8 Signature Assignment: Complete and Submit the Dissertation Prospectus (100 points)