

**GEORGIA STATE UNIVERSITY
COMMON LEARNING OBJECTIVES**

Course Abbreviation & Number:

CSc 4350, CSc 6350

Course Title:

Software Engineering - CTW

Credit Hours:

4 Hours

Prerequisites:

CSc 2720 with grade of "C" or higher. Students must meet the Computer Science Major Eligibility Requirement in order to enroll in this course.

Co-requisites:

None

Course Description:

Techniques used in large scale scientific or technical software development, including requirements analysis, specification, systems design, implementation, testing, validation, verification, and maintenance. Serves as the Critical Thinking Through Writing (CTW) course required of all computer science majors.

Expected Educational Results:

As a result of completing this course, the student will be able to apply knowledge of math, and computer science to design a system, component, or process within related requirements, communicate effectively and function on teams utilizing AGILE methodology, and identify, formulate, and understand complex problems using software as a solution.

General Educational Outcomes:

- Engage with standard tools using UML, version control/repository, collaboration, and AGILE / scrum analysis
- Express abstract concepts through descriptive, targeted documentation
- Understand standards of documentation, security, and ethics as they relate to software creation
- Understand the roles involved in AGILE / scrum methodology and demonstrate such understanding through classroom presentations