CS 1008 / IT 1008, Intro to Comp Sci, is a second semester freshman year course.

COURSE DESCRIPTION: This is the first course in a three-course programming sequence. This course introduces programming concepts in a programming language agnostic environment. It includes basic algorithm design and development including the three basic programming structures: sequence, decision, and repetition. It further includes basic encapsulation. To successfully complete this course, students must be capable of analyzing a problem and employing the programming structures towards implementing an intuitive solution to that problem. .

**Capstone Project**

For this project, you will design and implement a series of tasks for your robot. For each portion of this project,

For Each Deliverable, you must prepare a statement of requirements. Once you understand the requirements for this project, design a solution that will fulfill all requirements, functional and non-functional. Your program should implement your design. You must preserve your original program so you can demonstrate how you developed a complete solution.

You should identify and document the shortcomings in your original design (if any).

You must produce a final design showing the final program you implemented. You must produce a video, with audio, demonstrating how your robot fulfills each requirement.

Your design must employ sequence, decision, loops, and sub-programs (encapsulation) as appropriate to create an efficient and understandable (to another programmer) solution.

Each exercise in this project must be submitted in a single zipped folder on or before the date shown on the Course Schedule.