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IT-1008-1 Intro Computer Sci

Capstone Course and Project Description

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.