­­­EE433-AX Assignment #1 Fall 2019 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Instructions:**

Using object-oriented principles, design a simple student-course registration system involve a minimum of three classes:

Student

Course

Registration

Each class must have a unique id and appropriate properties to describe the data that will need to be stored/used. In addition, each class must have the appropriate method signatures to properly implement the following:

Create

Read

Update

Delete

In addition,

The Student class must have a method signature to calculate the student’s total enrollment for a given term.

The Registration class must have a method signature to calculate the student count for a given course/section/term.

The Registration class must have a method signature to determine whether a given course section is available for enrollment (oversubscribed).

Deliverables:

Using a compiled, object-oriented language of your choice, define all appropriate classes including typed properties and function signatures. Functions should return appropriate default values for unit testing. All source files must be submitted.

Bonus:

Implement a .csv file structure.