

Assignment 4 University Model

Due 11:59PM ET on Oct 26



Assignment Topic

The main goal of this assignment is to recreate the teaching process for Fall 2023 semester for **Information Systems program** of the Northeastern University College of Engineering

Part 1 – Populating the model (20 points)

Populate the existing model and create the following objects:

- 1(one) college
- 1(one) Department.
- 5(five) courses per program.
- 1(one) faculty for each course.
- 10(ten) students in each program.

Implement any classes, methods as needed.

Part 2 – Populating the model (cont.) (40 points)

- Create a course schedule for Fall 2023 semester
- Create course offerings for each course for the semester
- Create 25 seats for each course offering
- Register students for the courses
- Assign teachers (faculty) to course offerings
- Assign grades to students

Implement any classes, methods as needed.

Part 3 – Program Analytics (40 points)

Implement the following features to help the Program manager get the following information.

- Implement a method to print the Course schedule showing all courses taught this semester showing Course information, teachers, number of registered students and remaining empty seats.
- Implement a method to calculate Department revenue (or use one if exists) for Fall 2023 semester showing breakdown by Course offerings.

Implement any classes, methods as needed.