

Assignment 3

Submit the files on Canvas by 11:00 pm by July 17

Declare 2 classes Student and Course:

- A Course is a class containing information (such as name, grade and number of units) and associated operations.
- A Student is a class defining a Student with information (such as name, id and a list of courses maximum 10, average, grade, Units taken, units completed) and associated operations.

Create a Java program to test both classes to make sure they work correctly and catch all errors, like the student class developed in class. Your program must have methods to read info for 1 student from keyboard and one from a data file. Also include 2 print methods to write details of a student to the monitor and output file. Refer to the format of the input file and output file below. Prompt user for file names.

Input File Format:

Last, First
ID number_of_courses
Course 1 name
Grade Units
Course 2 name
Grade Units
Course 3 name
Grade Units

Input File Sample:

Smith Jr., Joe
111-22-3333 3
Physics I
A 5
English 1A
B 4
English 1B
F 4

Sample output format for file and the monitor:

Name	Id	Units Taken	Units Complete	Average
Joe Smith Jr.	111-22-3333	13	9	2.462

Include your UML, and demo the program in the lab to get full credit.