

CPSC 5011

Group 4

Homework 3: Design

1. *A list of use cases. These can be high-level and do not need to include all steps, failures, and variations.*

- a. **Students register courses**

- i. Student logs in to the registration
- ii. Searches for particular class
- iii. Selects the course and register

- b. **Courses show the current status**

- i. Students are able to see particular courses' current availabilities & prerequisites
- ii. Students who wish to get into a class that is full can contact the advisor via email.

- c. **Students can modify their registration for the class**

- i. Students may drop the class.
- ii. Students on the waitlist will be automatically enrolled if the spaced allows.

2. *Analysis of “probably classes,” “possibly classes,” and “rejected as classes”.*

Probably class:

Students—name, SUID, undergrad, grad

- In the registration system, students are responsible for registering and searching for the classes

Registration—deadline, waitlist/order

- Responsible to keep track a student's registering and dropping courses = OK

Course—prerequisite, credits

- Displays courses' information; including prerequisites and credits that the courses gives.
- Provides contact information to the instructor/advisor

Possibly class:

Discarded class:

SU Online – Out of scope; It's more focused on registration system.

Classes – Sounds duplicate with the courses; as we are defining classes here, in order to prevent overlapping of words, classes will be used as 'courses.'

Email— Not necessary to be considered as a class.

Advisor (admin like figures)

3. *Comment on any relationships identified between classes (i.e. dependency, aggregation, inheritance).*

Aggregation: A registration has number of **courses**

Aggregation: A registration has number of **students**

4. *List of classes, responsibilities, and collaborators. Create CRC cards using the [CRC Card Maker](#)*

Registration	
<ul style="list-style-type: none"> Track the maximum credit that student can take Set deadline for registration Display the availability of the class Display the waitlist/order status of the class 	<ul style="list-style-type: none"> Student Course

Student	
<ul style="list-style-type: none"> Login into system Search, add, and drop classes Keep track of current registered classes Store user ID Store user Name Store user Password 	

Course	
<ul style="list-style-type: none"> Display prerequisite Display course credit Display instructor Display course description 	