HW 3: Design

Student use cases:

- search for class
- add a class
- drop a class
- login to SU online
- email advisor to be added to waitlist

Advisor use case:

• add student to waitlist if class is full based on email

SU Online use case:

enroll student automatically based on waitlist

On <u>SU Online</u>, <u>students</u> are able to search and register for <u>classes</u>. In order to add a <u>course</u>, students need to meet the <u>prerequisites</u> and the class may not be full. Students may also drop a class they decide not to take before the <u>registration deadline</u>. Students can only take a maximum of 18 <u>credits</u> if <u>undergrad</u> or 12 <u>credits</u> if <u>grad student</u>.

Students must be logged into SU Online before attempting to add or drop, but can search for classes either logged in or not. If the class is full, students must send an <a href="mailto:emailto:mailto:mailto:emailto:mailto:mailto:mailto:emailto:mai

Probably Classes:

- SU Online
- Student
 - Undergrad
 - Grad
- Course
- Class
- Advisor

Rejected Classes:

- Prerequisites
- Registration deadline

- Credits
- Email
- Name
- SUID
- Waitlist
- Space

Relationships between classes:

- SU Online HAS students (aggregation)
- SU Online HAS courses (aggregation)
- Courses HAS classes (dependency)
- SU Online HAS advisors (aggregation)
- Undergrad IS A Student (inheritance)
- Grad IS A Student (inheritance)

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Abstract	Student	Undergrad and Grad
 search class drop class login/logoff to SU Online email advisor 		ClassAdvisorSU Online

	Undergrad		Student
add class (depends on 18 credits max limit)		ClassAdvisorSU Online	

	Grad		Student
add class (depends on 12 credits max limit)		ClassAdvisorSU Online	

	Advisor	
add student to waitlist		StudentClass

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Cours	se
get course codeget class list	ClassSU Online

Class	
maintain enrolled listmaintain waitlist	CourseStudentAdvisorSU Online

SU Online	
enroll student automatically based on waitlist (when space is available)	StudentClass

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