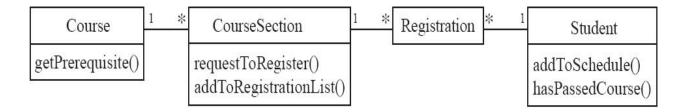
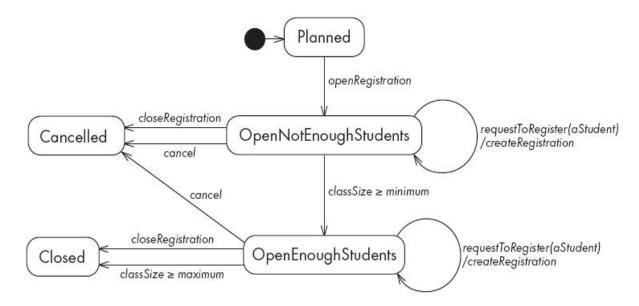
Software Engineering

Exercise Implement the class CourseSection based on the following (class and STD) diagrams:





(Source: T. Lethrbridge, R. Laganiere. Object oriented software engineering, 2005, section 8)

The two associations can be implemented as follows:

```
private Course course; // A many-to-one relation with Course private List registrationList; // A one-to-many relation with Registration
```

The state of a CourseSection object can be represented using two Boolean (instance) variables: open and closedOrCanceled. The states can be encoded as follows:

The variable classSize can be implemented as a call registrationList.size().

 $\label{thm: You can design methods openRegistration(), closeRegistration(), cancel() and \\ \text{requestToRegister() to implement the events of the same name.}$