Case Study for Analysis Diagrams

Scenario Summary for Course Registration
This case is for student course registration. The schedule has already been created by the department chairs and courses are available in the system. Students can view available courses, add and remove courses from their schedule, and view their schedule. Faculty can view their schedule and a class roster for their courses. A student cannot enroll in more than 18 credits. A student cannot enroll in a class if they do not meet the prerequisites or if the class is full. A department chair can view the schedules for any faculty or student and all class rosters. A department chair can also enroll students in classes, even if prereqs are not met or the class is full (as long as it doesn't exceed the room capacity). An administrator can add a class, cancel a class and modify the class information (time offered, capacity, etc.).

The system is a client-server system. The client is a web browser that is the interface for the users. The client communicates with the server, which interfaces with the database. The database consists of tables for user information, course information, and schedules. All users are required to login to do anything with this system. User logins are authenticated with an LDAP authentication server.

Exercises
- Draw a use case diagram for this scenario.

- Draw a sequence diagram for student registration. Do not include any interactions for faculty or administrators.

- Create a preliminary test plan for this scenario.