

[DEVRY CIS 339 iLab 4 Sequence, Communication, and State Diagrams](#)

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In this week, you will use your functional and structural models as the basis for your behavioral models that need to be developed for the SRS system. Specifically, your deliverables for this week are designed to develop these two behavioral diagrams for the Register a Student for Classes use case.
Sequence diagram
Communication diagram

In addition, you will also need to create a state machine diagram for the Registration class (the class that maintains the registration of a student in a class).

These behavioral model and diagrams are major milestones in your architectural and design work. They give you your first opportunity to verify that your use case (in this case, Register a Student for Classes) could actually be implemented using the objects of your class diagram design. If you reach this verification, then you are done with the analysis phase of your SRS project.

Deliverables

Sequence diagram for the Register a Student for Classes use case Communication diagram for the Register a Student for Classes use case State Machine diagram for a Registration object

STEP 2: Create the Sequence Diagram

Create a sequence diagram for the Register a Student for Classes use case using the Rational Software Architect software in the Citrix iLab environment. Explain your work and the decisions you made to arrive at your proposed solution.

STEP 3: Create a Communication Diagram

Create a communication diagram for the Register a Student for Classes use case using the Rational Software Architect software in the Citrix iLab environment. Explain your work and the decisions you made to arrive at your proposed solution.

STEP 4: Create an Object State Diagram

Create a state machine diagram for an object of the Registration class (the class that maintains the registration of a student in a class) using the Rational Software Architect software in the Citrix iLab environment. Explain your work and the decisions you made to arrive at your proposed solution.

STEP 5: Save and Upload the Project