Activity Diagram Description:

Activity diagrams are used to display the process view. The activity diagram, describes precisely the order of the student's activities during registration. The activity diagram is similar to a flow chart of activities ,and that demonstrates the capability of the system, as well as the results when errors may occur caused by the users' decisions.

In the Activity Diagram provided, it shows the system activity path from login until final registration.

After the user has successfully logged in, the user may decide day and time preferences for their schedule. After selecting the time and day constraints, a list of courses based on the constraints will appear on the screen and the user may decide the courses they wish to be registered in.

Following this, the user may decide an auto selection or manual selection of their courses. If Auto selection is selected, the courses available based on their pre-requisites will be generated into the final schedule. The user may then modify these selection, if they would like. The next option is manual selection, where the user will enter the course number into the search box and choose a section. This selection will then go to check if the user has the prerequisite. If a required prerequisite is not satisfied,

, a message will appear and the user must choose another course. The user may drop their course, or modify the courses they chose at any given moment during their registration period. If the prerequisite is satisfied, the course will be added to the student’s schedule.

Finally, the user just needs to commit their schedule and the final schedule is generated. The user may then proceed to log out or redo their schedule completely as all of this activity occurs on one page.