**Outline Description (1 Day)**

* The system will have user accounts for students, instructors, and an administrator account
* All accounts should be derived from a base user account that holds the person’s first and last name as well as the ID value associated with them
* Students will have the ability to search for courses, add/drop courses from their schedule, and print the final schedule
* Instructors will have the ability to print their schedule, print their class list and search for courses.
* The admin account will be able to add courses to the system, remove courses from the system, add and remove users, add and remove students from courses, and search and print rosters and courses.
* The database for users must be able to hold 100 students, 10 instructors and 1 admin.
* The database of courses must contain information such as the CRN, course name, times, and instructor.
* The system should include multiple semesters, print-out of schedule, and scheduling preferences for courses.

**Iteration 1 (1 Week)**

* Develop the database for the users and a basic sign-in UI for accessing the databases
  + Dummy values should be used to test that the database can hold the students and instructors and separate them based on the type of user created
  + A search function should be implemented that can find the user in the database; this will help with the login page for user’s to access their information.
  + If a user’s sign-in credentials match an account in the database, the information associated with the account should be printed to screen.
  + Sign-in page will only need to be text based at this stage for the sake of testing

**Iteration 2 (1 Week)**

* Develop the database for the courses
  + Similar to iteration 1, testing should be done with dummy courses
  + The users from iteration 1 should also be assigned to at least two courses to confirm they can access the course database
  + When the user signs in now, their personal information should be displayed as well as the information about the courses they are signed up for
  + Courses should also keep track of what students are registered for the class and display the class list only when searching the database

**Iteration 3 (2 Weeks)**

* Implement the user, student, instructor, and admin classes
  + Now when user signs in, they should be presented with a list of options for functions corresponding to the type of account they have
  + Admin account will have the ability to manipulate the databases through text boxes
  + Student will be able to search the course database and add or remove courses from their account. Final schedule will print when prompted
  + Instructors will have permission to see what students are signed up for a certain course, what courses they are hired to teach and print either list of data

**Final Iteration (1 Week)**

* Final pass over system
  + Graphical interface will be implemented to make system more user friendly
  + Final tests will be performed to catch any bugs that were not caught during the first 3 iterations