**Requirements Definition (1 Day)**

* Requirements have been thoroughly described in Assignment 1:
  + 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.

**System and Software Design (1 week)**

* Design features to decide:
  + Will the UI be text-based or feature clickable buttons?
  + How will users access their own data and prevent users from access other people’s data?
  + Will databases be hosted on a separate server owned by the institution, or will the data be cloud-based?
  + Overall visual design of UI
  + What language will the system be coded in?
  + What database software will be used to create the user and course databases?

**Implementation and Testing (3 weeks)**

* Write out the code for the system
* General testing should be done to ensure all classes of user function as expected, databases are being searched and updated effectively etc.
  + If there is time after testing, penetration testing can be done to catch any holes in the code that may jeopardize the integrity of the system

**Operation and Maintenance (Until end of contract)**

* Implement a form and link for users to report any bugs that may arise
  + Sections should be included for descriptions of what happened and screenshots of the error for effective recreation and troubleshooting
* Maintenance period will end when client no longer desires service to the system from us.
  + Administrative rights of entire system will be given to a member of the organization upon termination of contract