**Pseudocode Menu**  
  
INITIALIZE courseVector AS empty vector

INITIALIZE dataLoaded AS FALSE

FUNCTION displayMenu()

PRINT "Menu:"

PRINT "1. Load the file data into the data structure"

PRINT "2. Print an alphanumerically ordered list of all the courses in the Computer Science department"

PRINT "3. Print the course title and the prerequisites for any individual course"

PRINT "9. Exit the program"

FUNCTION handleOption(option)

IF option == 1 THEN

CALL loadCoursesFromFile("courses.txt")

SET dataLoaded = TRUE

PRINT "Data loaded successfully."

ELSE IF option == 2 THEN

IF NOT dataLoaded THEN

PRINT "Error: Data not loaded. Please load the file data first."

RETURN

CALL printCoursesInAlphabeticalOrder(courseVector)

ELSE IF option == 3 THEN

IF NOT dataLoaded THEN

PRINT "Error: Data not loaded. Please load the file data first."

RETURN

PRINT "Enter course number to search:"

INPUT searchCourseNumber

CALL printCourseInfo(courseVector, searchCourseNumber)

ELSE IF option == 9 THEN

PRINT "Exiting the program."

RETURN

ELSE

PRINT "Invalid option. Please choose again."

FUNCTION printCoursesInAlphabeticalOrder(courseVector)

SORT courseVector by Course.title in ascending order

PRINT "Courses in alphabetical order:"

FOR each Course in courseVector DO

PRINT "Course Number: " + Course.courseNumber

PRINT "Title: " + Course.title

MAIN

WHILE TRUE DO

CALL displayMenu()

INPUT userOption

CALL handleOption(userOption)

IF userOption == 9 THEN

BREAK