**-Psuedocode-**  
  
Create empty vector to store course objects

OpenAndReadFile(filename):

Open the file

If file cannot be opened:

Print error message and exit

For each line in the file:

ParseLine(line)

Close the file

CreateCourseObject(courseNumber, courseTitle, prerequisites)

Function CreateCourseObject(courseNumber, courseTitle, prerequisites):

Create a new course object with courseNumber, courseTitle, and prerequisites

Add the course object to the vector

Function SearchCourse(courseNumber):

For each course in the vector:

If course.courseNumber == courseNumber:

Print course information and prerequisites

Return

Print "Course not found"

Function Main():

filename = "courses.txt"

OpenAndReadFile(filename)

courseNumberToSearch = "CSCI101"

SearchCourse(courseNumberToSearch)

Call Main()

-Run Time Analysis-