Initialize an empty hash table to store course objects

Function OpenAndReadFile(filename):

Try to open the file

If file cannot be opened:

Print error message and exit

For each line in the file:

ParseLine(line)

Close the file

Function ParseLine(line):

Split the line by commas into tokens

If the number of tokens is less than 2:

Print error message and exit

courseNumber = tokens[0]

courseTitle = tokens[1]

prerequisites = tokens[2:] (if any)

For each prerequisite in prerequisites:

If prerequisite does not exist in the hash table:

Print error message and exit

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 hash table

Function PrintCourseInfo(courseNumber):

Search the hash table for the courseNumber

If course is found:

Print course information and prerequisites

Else:

Print "Course not found"

Function Main():

filename = "courses.txt"

OpenAndReadFile(filename)

courseNumberToSearch = "CS101"

PrintCourseInfo(courseNumberToSearch)

Call Main()