**Open File, Read Data, and Validate Format:**

Function loadCourses(String filePath, HashTable<Course> courseTable):

Open file at filePath for reading

If file is not open:

Print "Error: Unable to open file."

Return

For each line in file:

Split line by comma into tokens

If number of tokens < 2:

Print "Error: Invalid format"

Continue

courseNumber = tokens[0]

courseName = tokens[1]

prerequisites = tokens[2:] // List of all subsequent tokens

// Validate prerequisites exist in the file

For each prereq in prerequisites:

If prereq does not exist in courseTable:

Print "Error: Prerequisite " + prereq + " not found for course " + courseNumber

Continue

// Create course object

course = Course(courseNumber, courseName, prerequisites)

courseTable.insert(courseNumber, course)

Close file

**Define Course Object and Store in Hash Table:**

Class Course:

String courseNumber

String courseName

List<String> prerequisites

Constructor Course(String number, String name, List<String> prereqs):

courseNumber = number

courseName = name

prerequisites = prereqs

Class HashTable<Course>:

List<Node> table

Integer tableSize

Constructor HashTable(Integer size):

tableSize = size

table = new List<Node>(size)

Function insert(String key, Course course):

Integer hashValue = hashFunction(key)

Node newNode = Node(key, course)

If table[hashValue] is None:

table[hashValue] = newNode

Else:

// Handle collision by chaining

Node current = table[hashValue]

While current.next is not None:

current = current.next

current.next = newNode

Function hashFunction(String key):

// Simple hash function based on course number

Integer hashValue = 0

For each character in key:

hashValue = hashValue + ASCII value of character

Return hashValue % tableSize

**Print Course Information and Prerequisites:**

Function printCourseInformation(HashTable<Course> courseTable, String courseNumber):

course = courseTable.search(courseNumber)

If course is None:

Print "Course " + courseNumber + " not found."

Return

Print "Course Number: " + course.courseNumber

Print "Course Name: " + course.courseName

Print "Prerequisites: "

If course.prerequisites is empty:

Print "None"

Else:

For each prereq in course.prerequisites:

Print " " + prereq

Function searchCourse(HashTable<Course> courseTable, String courseNumber):

Integer hashValue = courseTable.hashFunction(courseNumber)

Node current = courseTable.table[hashValue]

While current is not None:

If current.key == courseNumber:

Return current.course

current = current.next

Return None