4-3 Milestone

(Alex Roberts)

**Reading File:**

Use fstream to be able to open file

Make call to open file

While it is not the end of file

Read each line

IF There are less than two values in a line, return ERROR

ELSE read parameters

IF there is a third or more parameter

IF third or more parameter is in first parameter elsewhere continue

ELSE return Error

Close file

**Create Course Objects HashTable:**

Initialize Course Vector vector<Node> nodes

Create HashTable Class

Create Insert method to insert items to HashTable

Loop through list

While not end of list

For each item in list

For first and second value

Create key to hold values

If a 3rd value exists

Add to current value

Call insert method for each value

**Search and Print from HashTable:**

Ask for Input

Assign input to key

If key is found

print out the course information

for each prerequisite of the course

print the prerequisite course information