Milestone 1 Pseudocode

Define the Course Structure

String of course number

String of course name

Vector of prerequisites

Function to load data from file and store in vector

Open file name for reading

If file cannot be opened

Print error

Return

While not end of file

Read line from file into string line

Split line into tokens

If taken size is less than 2

Print error

Continue

Course number = tokens[0]

Course name = tokens[1]

Add prerequisites if they exist

For i from 2 to tokens size – 1:

If course does not exists

Print error

Continue

Course.prerequisites.push\_back(tokens[i])

Add course to vector

Courses.push\_back(course)

Close file

Function to check if course exists in the vector

for each course in courses:

if course.courseNumber == courseNumber:

return true

return false

Function to search for a specific course and print details

for each course in courses:

if course number == course number:

print Course Number

print Course Name

print Prerequisites

if prerequisites == 0

print "None"

else:

for each prerequisite for course:

print prerequisite

return

print "Course not found."