**Pseudocode for loading data into tree data structure:**

-File = open(‘Course Information.txt’)

-IF return value is -1, PRINT “file not found”

-ELSE file is found

-Read data:

-WHILE not the EOF

Read each line from file ‘line = readline’

Parse lines to check for errors and get course information (course ID, courseName, prerequisites)

-SPLIT line into tokens based on (‘,’) delimiter ‘token = splitLine(line)’

Verify IF there are > 2 values in line

IF not PRINT “Insufficient parameters”

//Skip line

ELSE read parameters

-EXTRACT course data from tokens

courseNumber = tokens[0]

courseName = tokens[1]

prerequisites = tokens [2]

-VERIFY prerequisites are present for valid courses

-IF prerequisites not valid PRINT “ERROR, INVAILD PREREQUISITE”

ELSE

**Create Course objects and store in tree data:**

-CREATE new course ‘course = createCourse(courseNumber, courseName, prerequisite)

-FOR each line read data from file

ADD courseID, courseName

ADD prerequisite (if applicable)

-INSERT into binary search tree

CLOSE file

**Printing information:**

-SEARCH for course in tree by courseNumber

-IF course found PRINT course information

PRINT (“Course Number: “, course.courseNumber)

PRINT (“Course Name: “, course.courseName)

PRINT (“Prerequisites: “, course.prerequisites) // If applicable

-IF course not found PRINT “Invalid course information entered.”

END function