**Project One Milestone One**

Vector Structure – Data Parser Pseudocode

void parseContent(String csvFile) {

**Open the CSV file passed into the function.**

**Loop through each row in the CSV file {**

**If row has at least two parameters (courseNumber, name) {**

**If row has no prerequisites {**

**Push current row’s course to the end of the vector.**

**}**

**Else {**

**If prerequisite(s) is already stored in the vector {**

**Push current row’s course to the end of the vector.**

**}**

**Else {**

**Throw error that prerequisite is not found in vector.**

**}**

**}**

**Else {**

**Throw error that row is missing necessary parameters.**

**}**

**}**

Vector Structure – Data Loading Pseudocode

struct Course {

string courseNumber (unique identifier)

string name

}

vector<Course> loadCourses(String csvPath) {

**Define a vector data structure to hold a collection of courses**

**Initialize the CSV parser using the given csvPath parameter**

**Loop to read rows of the CSV file**

**Create a data structure and add to the collection of courses**

**Push the course to the end of the vector**

**Catch any CSV errors (Error& e) and push them to the cerr output.**

**Return the courses vector.**

}

Vector Structure – Search and Print Pseudocode

void searchCourse(Vector<Course> courses, String courseNumber) {

**for all courses**

**if the course is the same as courseNumber**

**print out the course information**

**for each prerequisite of the course**

**print the prerequisite course information**

}