Southern New Hampshire University

CS-300 DSA: Analysis and Design

3-3 Milestone: Vector Data Structure Pseudocode

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**Pseudocodes**

**Defining the Program**

START

Open files with fstream

Creating a function with two parameters

Call to open file, WHILE file is not empty

Read data

Parse each line

Check for course title and number

IF file format is free from errors

IF prerequisites exist

ELSE BREAK

ELSE put “error” to OUTPUT

Close file

END

**Course Objects**

START

Open file

Check if file was successfully opened

Loop through each line in the input file

Initialize variables for the course

Parse line and extract course data

Check for any prerequisites

IF prerequisites exist, put prerequisites to OUTPUT

ELSE put courses to OUTPUT

Close file

END

**Data Structure**

START

INPUT course number

Loop through vector

IF INPUT equates to course number

Print out the course information

IF prerequisites exist

Print prerequisites course information

ELSE display course cannot be found to OUTPUT

END