START

OPEN CSV file

CREATE an empty hash table of courseClass objects

WHILE row is not empty

GET each line of data into a string variable dataline

COUNT the number of commas in dataline string

IF number of commas = 0

PRINT error message

ELSEIF number of commas = 1

create an object, course, of courseClass

GET the first portion of the dataline string (before comma) and assign it to the classNumber field of course object

GET the second part of the dataline string (after comma) and assign it to the description field of course object

INSERT course object into Courses hash table (open addressing)

ELSEIF number of commas = 2

CREATE an object, course, of courseClass

GET the first portion of the dataline string (before comma) and assign it to the classNumber field of course object

GET the second part of the dataline string (after comma) and assign it to the description field of course object

GET the third part of the dataline string (after comma) and assign it to the prerequisite field of course object

INSERT course object into Courses hash table (open addressing)

ELSEIF number of commas = 3

CREATE an object, course, of courseClass

GET the first portion of the dataline string (before comma) and assign it to the classNumber field of course object

GET the second part of the dataline string (after comma) and assign it to the description field of course object

GET the third part of the dataline string (after comma) and assign it to the prerequisite field of course object

GET the fourth part of the dataline string (after comma) and assign it to the secondPrerequisite field of course object

INSERT course object into Courses hash table (open addressing)

ENDIF

ENDWHILE

END