

In-Class Exercise To Create a Table (You may use this table as part of your homework).

In this exercise, you will be creating a table that looks like this:

Creating a simple table with Javascript			
ID	Class Number	Class Name	ID#0:Grades
0	DGM 6108	Programming Foundations for Digital Media	A
1	DGM 6308	Intermediate Programming for Digital Media	A-
2	DGM 6451	Web Development	B+
3	DGM6541	Web Design	B
4	DGM6666	SEO	

Start with the html file, dynamicTable.html and the outline of the javascript file, dynamicTable.js.

#### Part A – completing dynamicTable

0) In the html file, uncomment the dynamicTable.js file and start completing it. Run the html and have your console open so you're aware of all the errors that pop up. By the time you're done with all the steps, all your errors will go away if you do the steps correctly!

1) In the javascript file, create a class for the courses, and add its constructor using the parameters passed in.

I've written a function for creating a new course and adding it to the array of courses by calling the course constructor.

2) Under addCourseRow function, add a row to the table and call it courseRow.

3-5) To the newly created row, add 3 cells, one for the id, called id, one for the class number, called courseNumCell and one for the class name called courseTitleCell.

The rest of this function is done for you, appending the cells to the row and the row to the table.

6) In the html file, uncomment the addRow button

7) Finally back to the JavaScript file, uncomment the last 2 lines to test your file, dynamicTable.js and test it.

#### Part B – completing dynamicTableAddRow.js

0) In the html file, uncomment the dynamicTableAddRow.js file and start completing it. In the js file, if the 3 lines that fill in the rows in the table are commented out, please uncomment them. Once you get this javascript file all working comment them back and go on to the next file.

1) Grab the addRow button (you may have to uncomment it in the html) and add an event listener that calls the function promptForRowInfo.

2) Under promptForRowInfo, call the function to create a new course and fill in the information collected from the user.

Part C – completing dynamicTableAddColumnn.js file

0) In the html file, uncomment the dynamicTableAddColumnn.js file and start completing it.

1) Add a property grades array to the Course constructor.

2) I've added the Grade class and constructor for you. I've also added the function createNewColumn and addGradeColumn as well as promptForColumnInfo.

3) Grab the addColumn button and add an event listener that calls promptForColumnInfo.

4) Grab the addGrade button and add an eventlistener to it, which calls the function promptForGradeInfo.

5) Write the function promptForGradeInfo, prompting the user for courseID and grade.

6) once you have that information, call the function updateGrade to add the info to the table, this is the last line of the function promptForGradeInfo.

7) Last challenge: write the function updateGrade(courseID, grade) – When you update the grade, please go back and look at your picture. The grade is an array within the course list array. You will be given an index into the course list.

Hint: Start with courseList[courseID] – then you have to go to the row, and go down the cells till you get to the grade cell!