**Summary of Excel Spreadsheet Tutorial 1 Implementation in the Anatomy and Physiology I Lab**

* I used the first spreadsheet Tutorial 1 – Formulae Functions and Averages
* This was used in two sections of BIO165 Anatomy and Physiology I Laboratory for a total of 40 students who are non-majors (mostly pre-nursing students).
* The tutorial was used during the first laboratory of the semester. It helped with the goal of teaching students data collection and analysis part of scientific method.
* I modified the tutorial to have data and one example that is relevant to Anatomy and Physiology class interests. In the Organize, Format, Formulae, Functions, and Ranges tabs, I used student height and weight of students. I altered the data in the Exercise to have the number of Ki67 positive cells in different lymphoma patients.
* I made the modified tutorial available on Blackboard and walked the students through all the tabs of it in the laboratory. Students had access to their own electronic devices while I walked them through the material, including the Exercise with lymphoma data.

**Homework Assignment.** I assigned extra credit homework as follows:

Extra credit homework: Using an Excel file as we did in class, do the following and submit on Blackboard.

* Collect data on the height and weight of your friends and family
* Organize data in Excel
* Find the mean value for height and mean value for weight
* Sort the data to find the median for height and median for weight
* Calculate the BMI for each person using height and weight:

BMI = (Weight in Pounds / (Height in inches x Height in inches)) x 703

BMI = (Weight in Kilograms / (Height in Meters x Height in Meters))

* I had 9 out of a total of 40 students submit the extra credit assignment. The parts they did well in were data organization, finding the mean, and sorting. The challenge was to use a function in Excel to find the BMI. Some just used a web site on the internet to find the BMI and entered the value. Next time, I have to be more specific on how I expect them to calculate the BMI using functions in Excel.