

Attachment 5: Rubric for Laboratory Sessions and Each Handout

Rubric for Laboratory Sessions and Each Handout				
Criteria	Sub-Criteria	Excellent	Acceptable	Unacceptable
1. Ability of group to convey ideas	<ul style="list-style-type: none"> - Clear written answers to lab handout questions - Well-explained and thought-out answers in class discussions 	Excellent written answers to lab handout questions that indicate students followed the instructions from each part exactly. Any ideas requiring citation have references listed as needed to support them. All ideas are clearly conveyed and placed in a logical manner (well-organized and interesting).	All of the “Excellent” criteria are met but with a few minor errors (including unclear organization of written responses). Other reasons for an “Acceptable” mark include not adequately citing references, an answer to a handout question is incorrect, or minor mistakes in expressing ideas or your explanation not being totally scientifically accurate.	The organizational criteria are not met or lack clarity in such a manner that the ideas of the group are not conveyed. No clear explanations to lab questions or group discussions.
3. Ability of Group to Work with EdGCM	<ul style="list-style-type: none"> - Students are following along each lab session - When instructor checks on group, students are engaged and computer shows correct input or output screens 	Students are always engaged. EdGCM is being used correctly (with expected glitches and learning experiences). When checked, students have produced the correct output, setup a scenario correctly or otherwise completed the tasks in each section of the lab activity. Students actively participate in discussions and volunteer their own ideas.	Students are mostly engaged. EdGCM is being used correctly (with expected glitches and learning experiences). When checked, students have produced mostly correct output, mostly setup a scenario correctly or otherwise completed the majority of tasks in each section of the lab activity. Students participate in discussions.	Students are not engaged, or only one student is working with the computer. EdGCM is being used incorrectly. When checked, students have NOT produced correct output, setup a scenario correctly or otherwise completed the tasks in each section of the lab activity. Students are quiet or only reluctantly participate in discussions.
4. Writing and Grammar	<ul style="list-style-type: none"> - Clear sentences - Grammar - Formatting 	Responses to lab questions have sentences that are well-structured and clear, good transitions between sections, and all figures and tables are correctly labeled/formatted and embedded in the text of the paper near the point they relate to. No/few spelling or grammar mistakes.	Lab assignments mostly conveys its ideas with clear, well-structured sentences, has some transitions between sections, and most figures are correctly labeled. Some minor spelling or grammar mistakes.	Numerous spelling and grammar mistakes and poorly constructed sentences. Incorrect formatting for sections as well as figures and figures located incorrectly.