**Digital Assignment in Biol 123: imovies about Human Genetic Diseases**

**Spring of 2014**

1. The assignment I gave to students was to make an imovie about a human genetic disease. I have included the rubric that I used to grade the assignment (see following pages).
2. Generally, the goal of the project is for groups of students to perform literature research on a human disease of their choosing and present that information to their fellow classmates. I want them to include symptoms, inheritance patterns, prevalence and current treatments of the disease. I also want them to research and mention any ethical issues that may arise because of the disease.
3. The audience is their classmates.
4. I had no examples to share with students, since this is the first year I have done this—Donald Snyder came in and gave a tutorial lesson on how to use imovie and used some material from class.
5. The students needed access to the imovie program and information they researched—I’m sure most used the Internet as a way to obtain information.
6. I have an attached rubric that I gave to the students before they started the project, so they knew how I was going to be grading.
7. I asked the students to submit to a folder on Blackboard. Some students also shared it via Google docs or uploaded to the web on utube and then provided the link.
8. The imovies will be shown in class and students will have time to ask questions regarding the information presented in the video. I did not ask students to peer review them.
9. I did not include a paper component for this assignment, although I do see the value in it and will think about including something about it next time. I did require each group to write a multiple-choice question that will be on the final (mostly as an incentive for students to pay attention to the imovies

**Grading Rubric**

**Group Members Names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Your team will choose a genetic disease and will be required to make a **10-12** minute imovie with the following information: 1) explain the symptoms of the disease; 2) the inheritance pattern of the disease and prevalence of the disease; 3) current treatments.

**Content/Script**

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| **Points** | **Criteria** | **Comments** |
| **50** | **Concisely explained the topic from a correct and understandable scientific standpoint. Included the symptoms of the disease, the inheritance pattern of the disease, prevalence of the disease, and current treatments.** |  |
| **45** | **One minor problem with scientific description. Included the symptoms of the disease, the inheritance pattern of the disease, prevalence of the disease, and current treatments.** |  |
| **40** | **A few minor or one major problem with the scientific description. Included the symptoms of the disease, the inheritance pattern of the disease, prevalence of the disease, and current treatments.** |  |
| **35** | **A few minor or one major problem with the scientific description. Only included 3 out of 4 of the explanations.** |  |
| **25** | **A few minor or one major problem with the scientific description. Only included 2 out of 4 of the explanations.** |  |
| **0** | **Major problems and poor understanding of issue** |  |

**Creativity, Originality & Visual Aids**

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| **Points** | **Criteria** | **Comment** |
| **30** | **The presentation is original & creative**  **Visual aids are *complete and aesthetically pleasing*** |  |
| **25** | **One minor problem with the above** |  |
| **20** | **A few minor problems or one major problem with the above** |  |
| **15** | **Two major problems with the above** |  |
| **10** | **Many major problems with the above** |  |
| **0** | **The presentation is not original nor creative and has no illustrations or visual aids** |  |

**Completeness, Organization & Flow**

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| --- | --- | --- |
| **Points** | **Criteria** | **Comments** |
| **15** | * **The presentation is *well organized*** * **All sections (scientific explanation of issue, scientific, ethical and economic issues) are included)** * **All headings, titles (on graphs, tables) and axes are labeled** * **All information and data is present & portrayed clearly** * **All major topics (background concepts) are discussed** |  |
| **12** | * **Presentation has a minor problem with one of the above** |  |
| **10** | * **A few *minor* problems or one *major* problem with the above** |  |
| **8** | * **A few *major* problems with the above** |  |
| **4** | * **Multiple major problems with the above** |  |
| **0** | * **Significant problems with all of the above** |  |

**Questions Provided for Final**

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| **Points** | **Criteria** | **Comments** |
| **5** | **Provided one usable question for final with only minor edits needed** |  |
| **3** | **Provided one usable question for final with intermediate edits needed** |  |
| **1** | **Provided one usable question for final with major edits needed** |  |

**Additional Comments**

* Spelling & grammar
* Typos
* Citations on illustrations