

2019 Che3460 – Assignment #3: Movie Project
Due on Dec. 11th at midnight [no extensions – sorry!]

Movie Project – Group Assignment (~2-4 people)

Here you are asked to make a 3 minute video (approximately 5400 frames at 30 fps) on a scientific topic/concept of your choosing (3 minutes is the maximum length). The movie should be educational and explain a concept clearly to the audience. The movie should also be engaging, and the use of music, sound, and narration are highly encouraged (ultimately it’s up to you to decide what is “engaging”). The recommended resolution is 720x480 pixels (this is referred to as “SD” resolution with a 16:9 aspect ratio). If you are confident that you have allocated enough time for rendering and post-processing, you are welcome to use a higher resolution (720x480 pixels is a minimum). You can Google “What resolutions does YouTube support?” to find other video resolutions. Any software can be used to make the movie, but Blender is of course recommended (you can also use combinations of different software packages).

Note: There is no presentation component. It must be a self-contained video that explains a scientific concept clearly (i.e., someone can watch it on YouTube without your standing over their shoulder and explaining anything). You are welcome to provide additional commentary to the class on the process that went into making the video.

Email YouTube link to movie to: wilmer@pitt.edu

In lieu of a grading rubric, here is a list of do's and don'ts. These are items that I keep in mind when grading. If in doubt, always think about what would have the greatest positive impact on YOUR graduate research. Show drafts / early versions to friends/family/colleagues to get feedback before submitting the final version in class.

Do's	Don'ts
Make the science self-explanatory. Viewers should not need to consult additional references to understand material. Assume viewer has a high school science background.	Graphical glitches (blurriness, flickering, any unexplained effect – everything should be intentional)
Everything from the other speed figures / assignments still apply here: use consistent font sizes / capitalization / alignment of labels, etc.	Go over 3 minutes
	Audio glitches / too loud / too quiet (if you are recording narration and your phone rings, start over with a new recording)
	Wrong aspect ratio / resolution
	Have objects that are too dark, or too similarly colored to distinguish from each other (if they need to be distinguished)
	Use too much text to convey the scientific concept (although a little bit of text can be very beneficial!)