

Paper Write-up Description

The following six assignments are major written communications to complete for the lab. One assignment will be a short paper for the NGS Lab Module, while the other five are related to the Pathways Lab Module. Instructions describing the specifications required for each assignment will be provided when that assignment is introduced in the lab.

The following are the items that must be completed to satisfaction for a 'C- or above' course grade.

1. *Results paper for NGS2 lab, submitted by Week 5W, start of lab*
2. *Results + Conclusion paper draft for Pathways A-C lab with one citation, submitted by Week 10W start of lab*
 - Note that just submitting a paper that has all the major requested items present and shows effort to organize sentences and paragraphs is satisfactory.

The following are the items that must be completed to satisfaction for a 'B- or above' course grade. You cannot proceed to these items until you have completed submission of #2.

3. *Peer review of two classmates' Pathways A-C document (done during lab), due by end of lab for Week 11W Lab (can request a free extension up until Week 12M midnight)*
4. *Revision of Results + Conclusion paragraph for Pathways A-C lab (#2) with description of what you focused on revising, hard copy due by Week 12W start of lab (can request free extension up until Week 13T start of class).*
 - Note that this is basically doing revisions on your Pathways A-C paper to satisfaction (A- or above equivalent)

The following are the items that must be completed to satisfaction for an 'A- or above' course grade. You should have completed #1-4 above to submit #5. #6 can be completed by anyone who has completed the Pathways lab worksheets.

5. *Extension of Pathways paper to include results from Pathways D-G (answering two additional research questions, an expanded discussion, and an additional two citations of a primary research article), due by Week 15T, start of class.*
 - Note that this is taking your Pathways A-C paper and expanding it to additionally answer questions from Pathways D-G, synthesize results, connect to other research, and suggest additional experiments or analyses for the future. The additional citations may refer to papers you find for your presentation.
6. *Completion of Pathways Report, due by Week 15R start of class.*
 - Note that this is filling out the report to communicate your findings to our collaborators in the Genomics Education Partnership. It draws directly from your lab research from Pathways A-G. You have the opportunity to be a co-author on a future paper if you choose. Even if you're not aiming for an 'A- or above' grade, you are welcome to submit this out and try for co-authorship! Those who fill it out for the 'A- or above' grade do not need to be a co-author if they choose not to.