**In class work for Literature Review – Part 2 Outlining your Literature Review, Planning your Oral Presentation**

**1. Outline and discuss one of the 6 sample literature reviews. (Instructions under Assessments, Literature reviews under Course Content).**

**Maris Ravenstahl: STEM education**

1. The pipeline (current situation)
   1. What it is
   2. Why it works
   3. Who it’s for
2. Non-pipeline individuals
   1. Who they are
   2. Why the pipeline is incomplete
   3. Why the non-pipeline should be fixed
   4. Encouraging people (anyone can do it)

Discussion:

This author’s discussion of how the STEM pipeline is broken really resonates with me. I completely missed the STEM pipeline and had to weld my way in.

The paper’s problem-solution organization was effective and flowed naturally. I would have liked if the paper cited more sources.

**2. Use your introduction and synthesis matrix to outline your own literature review, using the template below.**

--Write 3 or more subheadings based on the main themes, questions (thematic organization), time periods (chronological organization), or methods (methodological organization) mentioned in your introduction and your synthesis matrix. Use these as your major points, labeled with Roman numerals.

--Arrange the support or answers as subpoints labeled with capital letters.

--Arrange individual examples or cases from your sources as subpoints labeled with Arabic numerals.

Introduction   (Context, importance, past trends in research, specific focus of this review)

I.  current situation

* Currently, development and operations are segregated

1. Dev only
   1. Uses certain tools
      1. Git
      2. Documentation tools
      3. Monoliths
         1. Easier for small stuff
         2. Doesn’t scale
   2. Has some problems
      1. Documentation
      2. Version control
2. Ops only
   1. Uses certain tools
      1. Virtual Machines (vagrant?)
      2. Describe how Ops is done
   2. Has certain problems
      1. Fighting fires
      2. Green geeks

II. Ideal situation

* DevOps tools combine development and operations

1. Talk about the unified dev-ops model source
2. Docker
   1. Ship your machine!
   2. Docker hub
   3. Cite the source
      1. Docker site
      2. Docker book
   4. Source control it
   5. Docker-compose (and classes at GMU)
   6. Orchestration
   7. Ease of installation (
3. GitLab
   1. Kubernetes (cite)
   2. Gitlab CI (cite)
4. Documentation
   1. Written with contributions
   2. Mention open source
   3. Cite the source
   4. marketing
5. Microservices
   1. Simplifies team work
   2. Scales

III.  Realities of implementation

1. Docker-compose
   1. Easy to use
   2. Hard to write
   3. Only for dev, but not too bad to move to prod
   4. We’re developers
2. Sub-modules
   1. aren’t ideal, the require training
   2. ssh key?
   3. Our applications have many moving parts
   4. Makes source control easier
3. Gitlab-ci
   1. They implemented, but not allowed!
4. People out sick/vacation
5. Politics (around documentation etc.)
6. Cambrian explosion source

Conclusion  (Consensus so far, remaining controversies, ideas for future research)

1. Simpler, better and more marketable

**2. Begin to plan your oral presentation**. Review Guidelines for Oral Presentations (under Assignments.) Make an outline using the guideline questions as your major points. Remember that the audience for your presentation is a general audience, whereas the audience for the review is researchers and practitioners in your field. You should be able to incorporate work from all previous assignments in this final presentation:

-- Use the RIN to talk about how you chose your topic

-- Use the DAP to explain why research on this topic is important in your field and what kinds of research is done in your field

--Use the AB and TA and LR-in-progress to talk your research process, most helpful sources, and findings.

Discuss your topic with at least one classmate who is NOT familiar with your field to get a sense of the background information and definitions you’ll need to provide as well as a sense of the possibilities for multidisciplinary collaboration.

**3. Create a brief powerpoint to accompany your oral presentation.** Use the outline you created in number 2, making sure you add citations for any information or images you include that are not already on your Annotated Bibliography.

