

Mathematics 30-2 Research Project

The intent of this project is to research and create a presentation on a career you are interested in. You will either compare two similar careers, like LPN versus RN, or you will research one career at 2 different post secondary institutions. **Note:** the report and presentation are separate entities. The presentation should be developed from the report.

Process:

1. Choose either:

- 2 similar careers
- 1 career at 2 different post secondary institutions

2. Research and Data Collection:

Find at least 3 reliable sources to gather data. Collection of data **must** include, but is not limited to the following:

- Education needed for your career choice:
 - What high school courses and grades do I need?
 - What is the total cost for this certificate or degree? (provide a detailed description of how you calculated this cost – **do not estimate**)
 - Any other certifications needed? Extra costs?
- Employability:
 - How likely am I to get a job when I graduate?
- Earnings:
 - How much will I earn when I have no experience?
 - How much can I expect to earn once I have experience?
- Working conditions:
 - What are the physical conditions of the workplace and physical demand?
 - What are the interpersonal relationships, such as working with people who are hostile or dangerous, regular public speaking, etc.?
 - What are the structural job characteristics, such as job performance expectations, the consequences of making a mistake, latitude of independent decision making, etc.?

3. Create Graphs:

Use the data you found to create a minimum of 3 graphs that help to clarify the trends. These graphs cannot be copied from other sources, and the data used to build them must be included in your submission. A good graph illustrates a point you are trying to make, is clearly labeled, and appropriately represents the situation. Graphs should not be hand drawn.

4. Create Visual Presentation (PowerPoint, Google Slides or Prezi):

A good visual presentation includes a clearly stated research question, and rationale for choosing it. Each slide should support a specific aspect of that question and include bullet points to help keep you on track in the oral part of your presentation. Ensure that you have a clear conclusion.

5. Script/Speaking Notes:

Provide a script that details the additional information for your oral presentation/video. This should be in a separate document that clearly shows what needs to be said to address the content of each slide.

6. References and Citations:

Include a reference list end of your presentation. Within each slide provide a citation to show the specific source for any information included on that slide. All sources must be cited using APA formatting. Use the site <http://www.citationmachine.net/> to create your citations or use the format listed below.

Sources:

Author. (Date Published). "Name of Article". URL

7. Submissions:

Please submit both your visual and typed report to the assignment folder "Research Project" on D2L. Both the visual and the report will be checked for plagiarism using Turnitin

Rubric provided in D2L.

PowerPoint/Slides Structure

Slide 1: Career you have researched and student name

Slide 2: Rationale/hook/context

Slide 3: Preview of what you researched to arrive at your conclusion

4-5 Slides/Main point:

- Education and costs
- Employability
- Earnings
- Working conditions

2nd last slide: Identify any gaps or issues with the research presented

Last slide: Conclusions/further inquiry ideas

Script Structure

Slide Number	
Slide 1	My research question is:...
Slide 2	This topic is interesting/important/relevant because...
Slide 3	To answer my question, I explored data to address the following connections...
Etc.	Make sure to include sources used for each slide, where relevant. The format for these should be (Author's Last Name, Publication date).

On a separate page, please list all references used, in alphabetical order, by author's last name.

Author. (Date Published). "Name of Article". URL