**MATH 3210**

**Assignment #6 - Prepare the description of your experiment plan**

**Scenario:** You will now begin formal work on your research projects. The first component will be the development of the description of your research methodology (the **Analysis Technique** section of your standard report format).

Your **Analysis Technique** description should include:

* A description of the conceptual framework of the methodology
* A description (and possible illustration or diagram) of the structure or topology of the algorithm
* A description of the formulae that define the operation of the algorithm
* A description of (with formulae) the training algorithm (if applicable)
* A description of how the algorithm presents its results.
* Any other applicable information (training recommendations, stopping criterion, etc.)
* A description of the specific behavior, performance, or issue of the algorithm that you intend to experiment with
* A description of your hypothesized results – what do you expect to see as the results of your experiment?
* A description of your experiment plan – state what you will do and why you are doing it. This plan is tied to the hypothesized results. The results of the plan should prove or disprove your hypothesis
* A description of the datasets you are using and why they are appropriate for your experiment
* A description of any data manipulation or transformations necessary to prepare the datasets for your experiment

You can also add content to the **Assumptions** section if any specific assumptions are required by the algorithm.

Include your bibliographic references you’ve used so far. We may as well start developing this section also.

**Do NOT write a COMPLETE Analysis Report describing your analysis and recommendations. Only create the Analysis Technique section.**