**Homework 1: Research Problem Background and Investigation**

* Introduction
  + Option and Topic selection
  + brief introduction to the topic
  + relevance/significance
  + impact
* Research Problem Statement
  + research problem (what specific problem you are trying to solve)
  + research motivation (why your proposed research is even needed)
  + research background (what is the current state of this research problem)
* Course Specifics
  + Course Overview
  + Course Objectives
  + Benefits
* Conclusion