Individual Technical Writing (ITW)
EG 31 Fundamentals of Engineering

The ITW is an opportunity to develop and demonstrate critical thinking through written communication of your ideas in Engineering.

**Problem Statement** – You must identify a problem, question, concern, or conflict from an area that interests you related to engineering. Consider the Engineering Grand Challenges ([http://www.engineeringchallenges.org/](http://www.engineeringchallenges.org/)). You could choose to discuss technologies that interest you, a product, a manufacturing technique, etc. Think about the scope of the paper. What fields, applications, effects, materials, advantages, or concerns will you address? How does your topic address the Grand Challenges of Engineering? Being too broad will make it more difficult. Keep your topic as concise and focused as possible. This will help you get into the details of your topic.

**Length** – You must keep the paper under 1000 words (not including references).

**References** – You should further define the scope by laying out the general structure of the paper and which references you will use. You need to use at least five reliable primary sources (not just Wikipedia or website clips), at least three of which must be library references (books, articles, journals, etc.).

**Writing Style** – You need to turn in a piece of clear, concise technical writing and should appropriately cite all references using IEEE citation style.

**Grading Rubric** – Your paper will be graded on the TARGET Rubric (see Bb), for Understanding, Problem, Evaluation, Complexity, Conclusions, and Logic.

You will need to prepare several drafts of your paper. Please place a copy of each draft on Blackboard in .pdf or .docx format before listed due date.

*(5 pts) ITW Topic Due: 9/18*, we will attend a library research session, you must have your topic selected by end of day after that session. Submit a brief topic statement mentioning the scope of the paper to Blackboard.

*(5 pts) ITW Draft 1 Due: 10/2*, in class you will peer review each other’s drafts during a Trio Read-Aloud, submit your draft to Blackboard

*(10 pts) ITW Draft 2 Due: 10/5 at midnight*, your revised draft is due for instructor review, submit to Blackboard

*(80 pts) ITW Final Draft Due: 10/16 at midnight*, your final draft is to be turned in for instructor grading, submit to Blackboard