**EGR 150**

**Introduction to Engineering**

**Disciplines Report**

**Due at the beginning of class on 2/29**

**(upload your document on moodle, turn in hard copy, post on web page)**

Purpose

The purpose of this assignment is help you gain a deeper understanding of your selected field of study and to determine, as best as you can, whether your choice of major is right for you.

Description

Most engineering colleges offer BS degrees in Civil, Computer, Electrical and Mechanical Engineering. The profession of “engineering” also offers many other disciplines such as biomedical, environmental, ceramics, industrial and agricultural engineering.

You will conduct research on your choice of three disciplines, compare and constrast them and communicate your findings and insights via a Recommendation Report. The report must adhere to the format specified in Chapter 5 of A Guide to Writing as an Engineer.

The report is to be presented on your web page in pdf format.

Audience

This writing assignment is known as a Recommendation Report. Since you will be offering your personal evaluation and insights relative to your research findings, it is appropriate to write in active voice.

Grading

Your grade on this assignment will be based on how well you meet the following requirements.

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| **Item** | **Description** | **Points** |
| Title Page | Include an appropriate title page | 5 |
| Introduction | Provide an introduction section that briefly discusses the three disciplines you chose to research and why. | 10 |
| Research results | Summarize your research results. Include at least one table and one graph. Compare and contrast the three disciplines relative to:   * Specialties and/or sub-disciplines * History and heritage of the discipline * Impact on the safety and quality of life for humankind * Career opportunities for graduates * National and/or international supply and demand * Regional job market needs * Graduate level education need * Salaries for BS, MS, PhD graduates | 45 |
| Conclusion | Include a conclusion section that summarizes your new knowledge. Describe how your research has influenced your choice of major. If you have not decided upon a major, discuss what other research you need to conduct in order to make an educated decision | 10 |
| References | Include at least three references only one of which may be a reliable internet source. The other two references must be from an online journal and a government source. | 10 |
| Format, writing, organization | In addition, your format, organization and writing skills must conform to effective technical writing techniques and formats described in A Guide to Writing as an Engineer. This includes the appropriate use of title pages and cover letters, page numbers, fonts, titles and section headings. All drawings, tables, charts and graphs must be numbered, titled, labeled and dimensioned. Your document should be free of spelling, punctuation, grammar and formatting errors.  Note: a format including headers must be submitted or will result in a grade of zero. | 20 |

Length Requirement

Unless otherwise specified all documents must be single-spaced and have 1” margins. Be sure your setup is set to 1” margins as the default is 1.25”

Double space between paragraphs.

Resources to consider

* Check the resources page that will be posted on the Moodle website.
* For statistics and other information: <http://www.bls.gov>