**PHY-102 Application Paper Guidelines**

**Overall Project Review**

During this course, many concepts in the physical sciences will be examined in detail. You will select an application, research it, and write a 750-1,000 word paper on it. The following are brief descriptions of the project tasks:

Task 1: Identify your topic and write a brief outline.

Task 2: Submit your final paper.

**Possible Topics for the Application Paper**

These are just ideas. You are welcome to pick another topic. The purpose of Task 1 is for you to present your topic to your instructor and receive feedback on your plans.

The physics of a sport (pick one)

The physics of a bicycle (or any other machine)

The physics of car accidents

The physics of flying

The physics of space exploration

The camera

The combustion engine

The air conditioner

The chemistry of an element (or an atomic group of elements)

Nuclear medicine

Application of radioactivity (pick one)

Plastic – production and properties

Waste water treatment plants

The chemistry of a pharmaceutical (pick one)

The catalytic converter

The workings of a smokestack of a factory or a power plant

The chemistry of fertilizers

The chemistry of preservatives

**Application Paper: Task 1**

For Task 1, identify an application of one or more concepts from this course. A list of possible topics has been provided above.

To successfully complete task 1, do the following:

1. Briefly describe the application. This could be the draft for your introduction paragraph.
2. Provide a brief outline of the topics for each of the body paragraphs.

**Application Paper: Task 2**

Using the work you completed in Task 1, write your application paper, which should be 750-1,000 words.

Include the following:

1. An introduction.
2. A minimum of three body paragraphs each describing some aspect of the application. Make sure to include how each aspect relates to one or more concept(s) from this course. You may choose to include the history of the application as one paragraph.
3. A concluding paragraph.
4. You must use at least two scholarly sources in addition to the textbook as references to support your paper. Make sure to properly cite your sources.

Prepare this assignment according to the guidelines found in the GCU Style Guide, located in the Student Success Center.

This assignment uses a rubric. Please review the rubric prior to beginning the assignment to become familiar with the expectations for successful completion.

You are required to submit this assignment to Turnitin. Please refer to the directions in the Student Success Center.