Course Title: UHON 203L Physics is Everywhere: Rainbows to Refrigerators Lab

Course Description:

Crucial to science education is hands-on involvement: showing, not just telling; real experiments and field trips and not just 'virtual reality.' Martin Rees

To take this class you need to be currently (or previously) enrolled in UHON 203. This class is an extension of UHON 203

This class is one hour lab is available as a SEPARATE class. The separate lab class is optional, if you need four hours of science credit, you can add this lab class to the three hour class.

The class is asynchronous but with specific due dates for assignments.

Readings/Texts:

We will be reading sections from texts such as those listed below as well as from current scientific journals. These will be available online.

Richard A. Muller, Physics for Future Presidents: The science behind the headlines Richard

Feynman, Six Easy Pieces: Essentials of Physics explained by its most brilliant teacher

Walter Lewin, For the love of Physics: From the edge of the Rainbow to the Edge of Time- A journey through the wonders of Physics

Christopher P. Jargodzki and Frankin Potter, Mad about Physics: Brain twisters, Paradoxes and Curiosities

Paul G. Hewitt, Conceptual Physics Fundamentals

Student Requirements:

You will be participating in a mix of hands on and simulated labs. You will also video and submit three examples of physics in the world around you. Viewing of demonstrations impractical or unsafe for our classroom online are also required. For further information see

https://sites.google.com/view/unm-uhon-physics-lab/home

About the Instructor:
I have taught both physics and mathematics from middle school level through college. I have a Ph.D
in Educational Psychology, a M.S. in Science Education and a B.S. in Physics. But what should really matter to you is that I have experience in making science useful, exciting and interesting.