

## Syllabus for SCIE 3301 Physical Science

Wednesday 6:00-8:50 PM, Science Hall, room 226

Dr. R. Lopez, Science Hall room 008a, [relopez@uta.edu](mailto:relopez@uta.edu), 817-272-0386 (office), 817-330-9729 (google voice – rings cell), Office hours – Wednesday, 5:00-6:00 PM, or by appointment

And

Melissa Gibbons ([gibbons3@swbell.net](mailto:gibbons3@swbell.net))

Book: Tutorials In Introductory Physics and Homework Package, by L. C. McDermott, P. S. Schaffer, and the University of Washington Physics Education Group, ISBN-13: 9780130970695

This course will examine topics in three domains:

### *Motion: Description and Causes*

Describing motion, Representing motion, Force and change in motion, Newton's Laws

### *Applications of Newton's Laws*

Energy as force over distance, Momentum as force over time, Simple machines, Floating and sinking, Waves and optics

### *Electricity*

Electric charge and current, Simple circuits, Magnetism and magnetic force

### Grading:

Homework - 10%

Exams – 60% There will be 3 exams; your lowest exam will be dropped

Comprehensive final – 30%