

Updated 10-22-25

## Fall 2025 - STEM 40303 Introduction to STEM Education Tentative Schedule

\*Please keep in mind that this is a tentative schedule. All course content can be found on my website: <https://www.uastem.com/>  
All assignments will be submitted through the course Blackboard page. Please check the <http://www.uastem.com> website for updates.

### Week 10

#### **Wednesday, October 22**

- Technical-Procedural Problem-Solving – Transferring Energy
  - Challenge (in-class) – Teacher Geek Rubber Band Racer

#### **Friday, October 24**

- Introduction to Electricity – Building electrical circuits to demonstrate transfer of energy.
  - Challenge (in-class) – Paper Circuits – Drawing a Circuit Quick Challenge
  - Challenge (in-class) – The Simplest Electric Motor

### Week 11

#### **Wednesday, October 29**

- Major Assignment – Electricity-Curriculum-Project
- Challenge (in-class) – Simple Circuit with Switch

#### **Friday, October 31**

- The Electricity Project PP
- The Electricity Project Ideation
  - 4th Grade Standards and Content
  - Big Ideas and Essential Questions
  - Scenario and Challenge
- Suggested Reading: Chapter 1: [http://www.allaboutcircuits.com/vol\\_1/index.html](http://www.allaboutcircuits.com/vol_1/index.html)

### Week 12

#### **Wednesday, November 5**

- Electricity Curriculum Project Development

#### **Friday, November 7**

- Electricity Curriculum Project Development

### Week 13

#### **Wednesday, November 12**

- Electricity Curriculum Project Development

#### **Friday, November 14**

- Electricity Curriculum Project Presentations
- Introduction to Paper Engineering

### Week 14

#### **Wednesday, November 19**

- Paper Engineering
- Challenge – Pop-Up Card Quick Challenge

**(NO CLASS on Friday - 1909 Conference – November 19 – 21)**

### Week 15

**(NO CLASS on Wednesday and Friday - Thanksgiving Break – November 26-28)**

### Week 16

#### **Wednesday, December 3**

- Paper Engineering (cont.)
- Cardboard Engineering Challenge (in-class) – MakeDo
- Preparation for the final exam

**December 5 – Reading Day**

**Final Exam - W/F – 11:50 – 1:05 – Monday, December 8 – 12:45-2:45**