

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/>

Week 10

Thursday, October 23

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

Week 11

Tuesday, October 28

- 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

Thursday, October 30

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

Week 12

Tuesday, November 4

- 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

Thursday, November 6

- Electricity Curriculum Project Development

Week 13

Tuesday, November 11

- Electricity Curriculum Project Development

Thursday, November 13

- Electricity Curriculum Project Development

Week 14

Tuesday, November 18

- Electricity Curriculum Project Presentations
- Introduction to Paper Engineering

Week 15

Tuesday, November 25

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

(NO CLASS on Thursday - Thanksgiving Break – November 26-28)

Week 16

Tuesday, December 2

- Paper Engineering (cont.)
- Challenge (in-class) - MakeDo

Thursday, December 4

- Paper Engineering (cont.)
- Preparation for the final exam

December 5 – Reading Day

Final Exam - T/TH – 3:30-4:45 – Thursday, December 11 – 3:00-5:00