

Fall 2021 - STEM 4033 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: <http://www.uastem.com/stem-4033/>. All assignments will be submitted through the course Blackboard page. Please check the <http://www.uastem.com> website for updates.

Week 9

Tuesday, October 19 and Thursday, October 21

- Construction Blocks Curriculum Ideation Presentations
- Technical Procedural Problem-Solving PP
- Challenge 8 (in-class) - Teacher Geek
- Weekly Reading – Writing a Technical Procedural STEM Problem

Week 10

Fall Break – October 25-26

Thursday, October 28

Technical Procedural Problem-Solving - Teacher Geek in-class Extension Challenge

Week 11

Tuesday, November 2 and Thursday, November 4

- Computer Programming and Computational Thinking – Scratch and MakeyMakey
 - Bring a laptop to class
- Introduction to Electricity - Building electrical circuits to demonstrate transfer of energy
- Challenge 9 (in-class) – Paper Circuit
- Major Assignment 6 - Electricity Curriculum Project
- Weekly Reading Assignment 9 - Chapter 1: http://www.allaboutcircuits.com/vol_1/index.html

Week 12

Tuesday, November 9 and Thursday, November 11

- Electricity Curriculum Project Development

Week 13

Tuesday, November 16

- Electricity Curriculum Project Development
- Cooperative and Collaborative Learning PP
 - 21st Century Skills
- Weekly Reading Assignment 10 - Cooperative and Collaborative Learning

Thursday, November 18 – NO CLASS - Mississippi Valley Technology Teacher Education Conference

Week 14

Tuesday, November 23

- Electricity Curriculum Project Presentations
- Cooperative and Collaborative in STEM Education
- Challenge 10 (in-class) – Spy Game
- Challenge 11 (in-class) – Green and White/Gutterball/Crazy Forts

Thanksgiving Break – November 24-26

Week 15

Tuesday, November 30 and Thursday, December 2

- Paper Engineering PP
- Challenge 12 (at-home) – Pop-Up Card Quick Challenge
- Challenge 13 (in-class) - MakeDo

Week 16

Tuesday, December 7 and Thursday, December 9

- Automata – Final Project

December 10 – Dead Day

Final Exams

T/TH – 9:30-10:45 – Thursday, December 16 – 8:00 – 10:00am

T/TH – 2:00-3:15 – Tuesday, December 14 - 12:45 – 2:45pm