

Spring 2023 - Tentative Schedule - STEM 4043/5023 Creativity and Innovation - T/TH - 9:30-10:45

*Please keep in mind that this is a tentative schedule. Please check the <http://www.uastem.com> website for updates.

Week 7

Tuesday, February 28

- This is Not a Box - Paper Engineering Design Challenge Presentations
- 3D Printing Technology Design Challenge
 - Working with TinkerCAD
 - Using Cura 3D Printing Slicing Software

Thursday, March 2

***Field trip to the Amazeum (actually called an un-field trip). We will meet at the Amazeum in Bentonville from 9am-12pm.**

- Due: Final Project Checkpoint 2 - Children's books you will be using throughout the unit and the integrated standards – you have identified your text/s and selected the standards that you will integrate throughout the project.

Week 8

Monday, March 6 – Holcomb Elementary STEAM Night (Contact – Cayce Neal) – Fayetteville – 5:30–7pm

Tuesday, March 7

- We will not officially meet for class. Please use this time to fulfill your commitments at your schools and begin working on your Final Project Checkpoint 3 - Outline of the entire unit (books, standards, STEM/making examples, design briefs, assessment...) – you have determined the length of your unit and have developed and outline including the readings, standards, challenges/activities and potential assessments for each day (morning and afternoon) – Due March 16.

Thursday, March 9

- 3D Printing Technology Design Challenge
 - Working with TinkerCAD
 - Using Cura 3D Printing Slicing Software
- LittleBits STEAM Design Challenge – The Launcher
- The Frugal Teacher STEAM Design Challenge – Development
 - Team selection/assignment
 - Project development

Week 9

Tuesday, March 14

- The Frugal Teacher STEAM Design Challenge

Thursday, March 16

- Complete Frugal Teacher STEM Challenge Project
- Due: Final Project Checkpoint 3 - Outline of the entire unit (books, standards, STEM/making examples, design briefs, assessment...) – you have determined the length of your unit and have developed and outline including the readings, standards, challenges/activities and potential assessments for each day (morning and afternoon).

Week 10 – Spring Break

Week 11

Tuesday, March 28

- Fabric/Sewing Design with Dr. Deaton's class

Thursday, March 30

- Wearable technology for facilitating creativity and innovation

Week 12

Tuesday, April 4

- Fabric/Sewing Design with Dr. Deaton's class
- Reading: Remaking Literacy - Chapter 5 – Remaking with Maker Tech

Thursday, April 6

- Remaking with Maker Tech
- Introduction to Makey Makey and [Scratch Programming](#)
- Due: Final Project Checkpoint 4 - April 6: First 3 days of the unit completed including photographs and detailed descriptions

Week 13

Tuesday, April 11

- Introduction to Makey Makey and [Scratch Programming](#)

Thursday, April 13

- **We will not formally meet for class, as I will be presenting at the International Technology and Engineering Education Association Conference in Minneapolis.**
 - **Use this day to continue working on your Remaking Literacy Final Project**

Week 14

Tuesday, April 18

- MaKey MaKey Design Challenge Project Development

Thursday, April 20

- MaKey MaKey Design Challenge Project Presentations
- Introduction to Magnetic Levitation Design Challenge – [Moving Along the Tracks Unit](#)
- Reading: Remaking Literacy - Chapter 6 – Guidance for Implementation – Complete reading review

Week 15

Tuesday, April 25

- Magnetic Levitation Design Challenge Project Development

Thursday, April 27

- Magnetic Levitation Project Due - MagLev Race
- Assignment: Engineering a Play Design Challenge
- The influence of theatre experiences in academic and social and emotional learning

Week 16

Tuesday, May 2

- Engineering a Play Design Challenge – Puppet Pal Prototype Videos Due
- Remaking Literacy Final Project Ideation

Thursday, May 4

- Remaking Literacy Final Project Ideation

May 5 – Dead Day

Final Exam – Tuesday, May 9 – 8:00 – 10:00am - Remaking Literacy Final Project Presentations