

Spring 20222 - STEM 4043/5023 Creativity and Innovation - T/TH - 9:30-10:45 - Tentative Schedule

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

Week 7

Tuesday, March 1

- Using Cura 3D Printing Slicing Software
- 3D Printing
 - You may check out a 3D printer for 2 weeks from the UA Center for Mathematics and Science (CMASE – STEM Center)
- The Frugal Teacher STEAM Design Challenge – VibroBOT
- Reading: STEM Integration Through 3D Printing and Modeling – Complete Reading Reflection - Due – March 8

Thursday, March 3

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

Week 8

Tuesday, March 8

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

Thursday, March 10

- We will not officially meet for class, as I will be traveling to the International Technology and Engineering Educators Conference (ITEEA) Conference (March 9-12)
- Complete VibroBOT Design for final testing on March 17

Friday, March 11 – 71st Annual University of Arkansas Regional Science and Engineering Fair – contact Shawn Bell - seb010@uark.edu

Week 9

Tuesday, March 15

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

Thursday, March 17

- VibroBOT Design Challenge - Final Testing

Week 10

No classes - Spring Break – March 21-25

Week 11

Tuesday, March 29

- STEAM Kits
- The Frugal Teacher STEAM Design Challenge – Development
 - Team selection/assignment
 - Project development

Thursday, March 31

- The Frugal Teacher STEAM Design Challenge
 - Project development
- Reading: Remaking Literacy - Chapter 5 – Remaking with Maker Tech - Complete Reading Reflection

Week 12

Tuesday, April 5

- Reading Review
 - Maker Tech Project
- Introduction to Magnetic Levitation Design Challenge
- Reading: [Moving Along the Tracks Unit](#) – Review the unit

Thursday, April 7

- Magnetic Levitation Design Challenge
- Reading: Remaking Literacy - Chapter 6 – Guidance for Implementation – Complete Reading Reflection

Thursday, April 7 – Center-Gamble Elementary STEM Night (TBD)

Week 13

Tuesday, April 12

- Magnetic Levitation Design Challenge

Thursday, April 14

- Magnetic Levitation Design Challenge – Final Testing
- Reading: Remaking Literacy - Epilogue/Appendices A-B – You do not need to submit a Reading Reflection

Week 14

Tuesday, April 19

- Introduction to Makey Makey and [Scratch Programming](#)
- Homework: Read Ch. 1 – Getting Started (pgs. 1-24) in the Learn to Program with Scratch book. You will need to set up a [Scratch account](#) and complete each of the activities. Then customize your game with your own Sprites and Costumes. Be prepared to demonstrate your 'pong' game to the class on Tuesday, April 26.

Thursday, April 21

- MaKey MaKey Design Challenge Project Development

Week 15

Tuesday, April 26

- Remaking Literacy Final Project Ideation

Thursday, April 28

- Remaking Literacy Final Project Ideation/Presentations

Week 16

Tuesday, May 3

- Engineering a Play Design Challenge
- The influence of theatre experiences in academic and social and emotional learning

Thursday, May 5

- Engineering a Play Design Challenge
 - Storyboard and script development
 - Puppet Prototype Development

Friday, May 6 – Dead Day

Final Exam

Tuesday, May 10, 2021 – 8:00 – 10:00 – Remaking Literacy Project Presentation