

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 10

No classes - Spring Break – March 21-25

Week 11

Tuesday, March 29

- Review of 3D modeling and 3D printing
- Introduction to Magnetic Levitation Design Challenge
- Reading: Design Fixation in STEM Education - Complete Reading Reflection

Thursday, March 31

- Teachers and Administrators from Neosho Public Schools will be visiting and sharing about their new STEM-focused elementary school
- MagLev Vehicles - [Moving Along the Tracks Unit](#)
- Reading: Remaking Literacy - Chapter 5 – Remaking with Maker Tech – See High-Tech Remaking Literacy Challenge Assignment. Your idea should be submitted by April 5, but your ‘one-pager’ will not be due until April 12.

Week 12

Tuesday, April 5

- Reading Review - High-Tech Remaking Literacy Challenge
- Magnetic Levitation Design Challenge Project Development
- Reading: [Moving Along the Tracks Unit](#) – Review the unit

Thursday, April 7

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

Thursday, April 7 – Center-Gamble Elementary STEM Night - You will receive extra-credit for your participation in this fun event. I will arrive at 5:00pm to set up. The event will be from 5:30-7:00pm. Please plan to arrive a few minutes early to get prepared to engage with students and parents. The school address is 1550 Gamble Rd, Centerton, AR 72719.

Week 13

Tuesday, April 12

- Magnetic Levitation Design – MagLev Final Testing

Thursday, April 14

- My Geometric Creature Project Development
- Introduction to Makey Makey and [Scratch Programming](#)
- Reading: Remaking Literacy - Epilogue/Appendices A-B – You do not need to submit a Reading Reflection
- 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.

Week 14

Tuesday, April 19

- MaKey MaKey Design Challenge Project Development

Thursday, April 21

- MaKey MaKey Design Challenge Project Development
- 3D Printing Project Due

Week 15

Tuesday, April 26

- My Geometric Creature Project Due
- MaKey MaKey Design Challenge Presentations
- Remaking Literacy Final Project Ideation

Thursday, April 28

- Remaking Literacy Final Project Ideation

Week 16

Tuesday, May 3

- Engineering a Play Design Challenge

- The influence of theatre experiences in academic and social and emotional learning
- Engineering a Play Design Challenge
 - Storyboard and script development
 - Puppet Prototype Development

Thursday, May 5

- Guest Speaker – Jacie Masyk, author of STEAM Makers and Remaking Literacy

Friday, May 6 – Dead Day

Final Exam

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