**Spring 2025 - Tentative Schedule**

**STEM 4043/5023 Creativity and Innovation - T/TH – 2:00 – 3:15pm**

**\*Please keep in mind that this is a tentative schedule. Please check the** [**http://www.uastem.com**](http://www.uastem.com/) **website for updates.**

**Week 1**

**Tuesday, January 14 and January 16**

Introductions and Syllabus Review

YouTube/Greenscreen Introduction Assignment

Reading: Remaking Literacy - Introduction and Chapter 1 – What the Research Says

Introduction to Tinkering and Take-Apart

**Week 2**

**Tuesday, January 21 and Thursday, January 23**

Reading: Remaking Literacy - Chapter 2 – Creative Pathways to Learning

Complete Take-Apart Challenge (Pictures and sorting loose parts)

Fostering Creativity in the Classroom

Paper Creatures

\*January 23 – 6:00 – 8:00 - [Amazeum Educator Night Out](https://www.amazeum.org/educators/professional-development/educator-night-out/?gad_source=1&gclid=CjwKCAiAm-67BhBlEiwAEVftNmYjdzQ08OnLb9BOZkC5URpJLA0MNQf4VoLwBwMac5ylcTXwies4phoCtPkQAvD_BwE)

**Week 3**

**Tuesday, January 28**

Reading: Remaking Literacy Chapter 3 – Thinking and Designing

Introduction to the CO2 Laser

Homework: Not a Box Design Challenge

**Thursday, January 30 – Unfieldtrip to the Amazeum**

**Week 4**

**Tuesday, February 4 and Thursday, February 6**

CO2 Laser -Putting it all together

Introduction to TinkerCAD

STL files, Cura, and 3D printing

**Week 5 - ARRL School Club Roundup – Sonora Elementary School**

**Tuesday, February 11 and Thursday, February 13**

STL files, Cura, and 3D Printing

Reading: Remaking Literacy Chapter 4 – Low Tech Making

**Week 6**

**Tuesday, February 18 and Thursday, February 20**

Tools/Materials/Processes/Measurement – Catapult Design Challenge

Reading: Remaking Literacy Chapter 5 – Remaking with Maker Tech

**Week 7**

**Tuesday, February 25 and Thursday, February 27**

Engineering a Play/Puppet Pals

Homework Assignment

Reading: Remaking Literacy Chapter 6 – Guidance for Implementation

**Week 8**

**Monday, March 3 – Holcomb Elementary School STEM Night – 5:30pm**

**Tuesday, March 4 and Thursday, March 6**

Engineering a Play

**Week 9**

**Tuesday, March 11 – Southside Elementary School STEM Night – 5:00pm**

**Thursday, March 13**

STEAM kits (LittleBits)

ArtBOT/VibroBOT Challenges

Caine’s Arcade – Intro to the Frugal Teacher

**\*All 3D Printing Projects are due March 18**

**Week 10**

**Tuesday, March 18 and Thursday, March 20**

Frugal Teacher Assignment Development

**Week 11 - Spring Break**

**Week 12 – ARISS – International Space Station Contact Window**

**Tuesday, April 1 and Thursday, April 3**

Frugal Teacher Assignment Development

Frugal Teacher Presentations

**Week 13**

**Tuesday, April 8 and Thursday, April 10**

Introduction to Makey Makey and [Scratch Programming](http://makeymakey.com/apps/images/makeymakey-scratch-handout.pdf)

MaKey MaKey Design Challenge Project Development

**Week 14**

**Tuesday, April 15 and Thursday, April 17**

MaKey MaKey Design Challenge Project Development

Presentations to students from the Jean Tyson Child Development Study Center

**April 17 – Vaughn Elementary STEM Night – Bentonville – 5-7pm**

**Week 15**

**Tuesday, April 22 and Thursday, April 24**

Introduction to Magnetic Levitation Transportation

MagLev Project Development

**Week 16**

**Tuesday, April** **30 and Thursday, May 2**

MagLev Project Development

MagLev Race Day

**May 3 – Reading (Dead) Day**

# Final Exam Time: Thursday, May 8 – 12:45-2:45pm