

## 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> website for updates.

### Week 1

**Tuesday, January 13 and January 15**

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 20 and Thursday, January 22**

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

### Week 3

**Tuesday, January 27**

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 – 2:00-4:00pm**

### Week 4

**Tuesday, February 3 and Thursday, February 5**

CO2 Laser -Putting it all together

Introduction to TinkerCAD

STL files, Cura, and 3D printing

### Week 5 -

**Tuesday, February 10 and Thursday, February 12**

STL files, Cura, and 3D Printing

Reading: Remaking Literacy Chapter 4 – Low Tech Making

### Week 6

**Tuesday, February 17 and Thursday, February 19**

Tools/Materials/Processes/Measurement – Catapult Design Challenge

Reading: Remaking Literacy Chapter 5 – Remaking with Maker Tech

### Week 7

**Tuesday, February 24 and Thursday, February 26**

Engineering a Play/Puppet Pals

Homework Assignment

Reading: Remaking Literacy Chapter 6 – Guidance for Implementation

### Week 8

**Monday, March 2 – Holcomb Elementary School STEM Night – 5:30pm**

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

Engineering a Play

### **Week 9**

**Tuesday, March 10 and Thursday, March 12**

STEAM kits (LittleBits)

ArtBOT/VibroBOT Challenges

Caine's Arcade – Intro to the Frugal Teacher

**\*All 3D Printing Projects are due March 17**

### **Week 10**

**Tuesday, March 17 and Thursday, March 19**

Frugal Teacher Assignment Development

### **Week 11 - Spring Break**

### **Week 12**

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

Frugal Teacher Assignment Development

Frugal Teacher Presentations

### **Week 13**

**Tuesday, April 7 and Thursday, April 9**

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

MaKey MaKey Design Challenge Project Development

**April 9 – Vaughn Elementary STEM Night – Bentonville – 5-7pm**

### **Week 14**

**Tuesday, April 14 and Thursday, April 16**

MaKey MaKey Design Challenge Project Development

Presentations to students from the Jean Tyson Child Development Study Center

### **Week 15**

**Tuesday, April 21 and Thursday, April 23**

Introduction to Magnetic Levitation Transportation

MagLev Project Development

### **Week 16**

**Tuesday, April 28 and Thursday, April 30**

MagLev Project Development

MagLev Race Day

**May 3 – Reading (Dead) Day**

**Final Exam Time: TBA**