

Public Syllabus Components – LT 3737

1. Instructor Name, Contact Information, Office Hours

Instructor: Dr. Jonathan D. Cohen

Office Location: CEHD 233

Email: jcohen@gsu.edu (use for communication outside of iCollege)

Office Hours: Online and Face-to-Face by appointment

2. Course Prefix, Number, and Name

Course Prefix and Number: LT 3737: Inventing to Learn: Teaching and Learning with Maker Technologies

CRN: 85297

3. Semester and Academic Year

Semester: Fall 2025

4. Course Description

This course prepares educators to take advantage of maker technologies to support student learning. Students will learn to use a variety of technologies, including 3D printers and microcontrollers, while also exploring various pedagogical strategies that leverage these technologies.

5. Course Learning Outcomes

Course Goals:

- Develop a belief in the potential for making to support teaching and learning.
- Develop technological knowledge to know when and how to use the technology in educational contexts.
- Develop confidence in designing maker-based educational curriculum.

Course Objectives:

- Increase knowledge of maker technologies for educational use.
- Explore issues related to making, social justice, democratization of production, and equity.
- Develop curricular units modeling pedagogies associated with hands-on, tech-enabled learning.
- Work with various maker software and hardware to produce quality educational products.
- Understand and apply relevant learning theories and pedagogies.

6. Required Course Materials

Textbook:

- Clapp, E. P., Ross, J., Ryan, J. O., & Tishman, S. (2016). *Maker-centered learning: Empowering young people to shape their worlds*. John Wiley & Sons.

Other Materials:

- All other required readings will be available digitally.
- No additional purchases for hardware/software are required beyond standard internet access.
- A notebook for use as a design journal is recommended.

7. Grading Policy

Grading Scale:

- A+ (98–100)
- A (94–97)
- A- (90–93)
- B+ (88–89)
- B (84–87)
- B- (80–83)
- C+ (78–79)
- C (74–77)
- C- (70–73)
- D (60–69)
- F (below 60)

Final Grade Breakdown:

- Modules and Weekly Assignments: 80%
- Final Project (Portfolio & Reflection): 10%
- Participation: 10%

Participation includes punctuality, attendance, in-class engagement, and contribution to class culture.

Late Work Policy:

- Weekly assignments accepted up to two weeks late for half credit.
- Points deducted for missing module completion milestones.
- Incomplete grades granted only in cases of extraordinary adversity.

8. Attendance Policy

Students who want to do well in this course will attend class following the class attendance policy. **You will need an excused absence due to illness.** GSU has a process for students seeking excused absences of longer than one week due to illness through the Dean of Students Office. Please see <https://deanofstudents.gsu.edu/student-assistance/#professor> for more details.

9. Academic Honesty and Integrity Statement

Academic dishonesty is a serious violation of the trust upon which the success of our University depends. Cheating and plagiarism can not only result in a poor grade and penalties from the University, but it can cause your mentors and peers to mistrust you and could keep you from developing the habits to make you a successful student and a successful worker in your future career. The University's policy on academic honesty is published in the Student Handbook, <https://deanofstudents.gsu.edu/files/2019/07/Academic-Honesty-Policy.pdf>, and includes dishonest actions such as cheating, plagiarism and facilitating academic dishonesty. Please be aware that violations of this policy will result in a grade of "F" for the assignment or the course. If you have any questions about the policy or are unsure if something you're about to do counts as academic dishonesty, please come to my office hours and we can discuss it.