

# Drexel STEM Syllabus

## **Mission:**

STEM (*Science Technology Engineering Mathematics*) courses allow for cross-curricular projects and enhancing core concepts and skills. Through pathways in computer science, engineering, and biomedical science, students learn problem-solving strategies, critical and creative thinking, and how to communicate and collaborate. We are shaping the innovators, creators, and designers of today and tomorrow.

## **Courses:**

### JH STEM class:

This course provides hands on learning, real time collaboration in and outside the classroom, critical thinking and designing, problem solving and investigating. Creating, testing, and presenting ideas and products will be a primary focus of this class.

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## **Instructors:**

Sam Oram

[Email](#)

Scheduled Conference if needed

Becky Morgan

[Email](#)

8th Hour Conference Time

Debbie Axmann

[Email](#)

2nd Hour Conference Time

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## **STEM Class Rules**

- **Practice Respect**
  - Respect the property, ideas, and personal space of yourself, your classmates, and your teacher
- **Act Safety**
  - Follow all safety rules when in the lab  
(No Horseplay or unsafe acts)
- **Work Hard**
  - Work on projects and assignments for the entire class time. Complete projects on time.
- **Show Responsibility**
  - Obtain permission before speaking out, or leaving your seat unless otherwise instructed

The consequences that occur that if a student does not comply with the rules are:

1. Verbal Warning
2. First Strike
3. Second Strike-MELO
4. Third Strike- WASD
5. Alternate learning environment- ISS
6. Additional consequences with the principal.

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**Grading Policies:**

8th Grade

Pass/Fail (Projects, Assignments, Quizzes, Participation)

7th Grade

Pass/ Fail (Projects, Assignments, Quizzes, Participation)

**Project Examples:**

1. Cerebral Palsy support boot for walking
2. Transportation Challenges
3. Technical Drawings/Measurements
4. Melon Launchers
5. 123 Design / CADD Models
6. Mini Makerspace Fair
7. Website and Digital Portfolio Designs.
8. Bridge Design
9. STEM Modules & Challenges