

Activity Information

Title: Design, Draw, and Manufacture in Fusion 360

Instructor name(s): Joe Wight

Instructor email(s): joewight@mit.edu

Brief bio of instructor(s) (optional): Joe Wight is an Instructor of Design and Manufacturing at MIT. He runs the manufacturing shop in the Laboratory for Manufacturing and Productivity. Before coming to MIT, he was a machinist at JG Machine in Woburn MA, studied sculpture and interrelated media at Massachusetts College of Art and Design, and taught advanced manufacturing at Somerville High School.

Description of the activity (up to 250 words): This 3-part course will introduce students to the world of Computer-Aided Design (CAD) and Computer-Aided Manufacturing (CAM) through Fusion 360. In this 3-part course, I will give an overview of the basics of designing 3 dimensional parts, creating fully dimensioned drawings, and setting up simple machining jobs. These skills will help prepare students to interact with shop staff and participate in the machine shop environment.

Participant preparation: None other than downloading the software

Materials, tools, or other requirements: Download the software
<https://www.autodesk.com/products/fusion-360/students-teachers-educators>

Specific safety considerations: Not applicable

Enrollment limitations: limited to 12 participants, I will reconsider based on interest.

Activity schedule:

Session No.	Topic	Date	Start time	Duration
Session 1	Introduction to Design in Fusion 360	August 11, 2020	1:00 pm	1:30 h
Session 2	Drawings and Dimensions in Fusion 360	August 12, 2020	1:00 pm	1:30 h
Session 3	Manufacturing in Fusion 360	August 13, 2020	1:00 pm	1:30 h