

Class Creation

Course Title	From Zero to Robot - How to Build a Dishwasher Sized Friend in Only 8 Weeks
Grade Level	7-12
Tutor's Name	Laura Calkins
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Class Description

Robots. They may eventually run the world. They certainly take over my family's life from January to April every year. I help to mentor a FIRST Robotics Team based in Bedford, NH. You may have seen our robots Shellshock and Nebula at previous science fair demonstrations and wondered what we were all about. Perhaps you may have been a bit intimidated too. They look complex, but in this course we will learn how to build a FRC robot.

In this course we will cover:

- What is FIRST Robotics
- Computer Aided Design (CAD)
- 3D Printing
- Material Fabrication
- Software Programing
- Electrical Wiring
- Testing and Refining
- Driving and Operating a Robot
- Creative Marketing
- How YOU can participate

No previous experience is needed!

We will not end the class with a finished robot, but if you enjoy the experience and would like to follow-up with a full build season, the class will end just as the 2025 FIRST Robotics Competition kicks off!

Mayhem's 2024 season has ended, but we meet every Tuesday and Thursday evening in Bedford during the off-season. We will be building a demo robot this spring and summer. You are welcome to stop by and see what the program is all about.

Please use our Contact Us link on our webpage to get in touch with one of the coaches.

<https://mayhemrobotics.org/>

Text/Materials

Provided in class

Class Fee (and how is it used) 0

Prerequisites

None

