
DUBLIN ENGINEERING ACADEMY

Preparing students to study science and engineering.

Fundamentals of Engineering

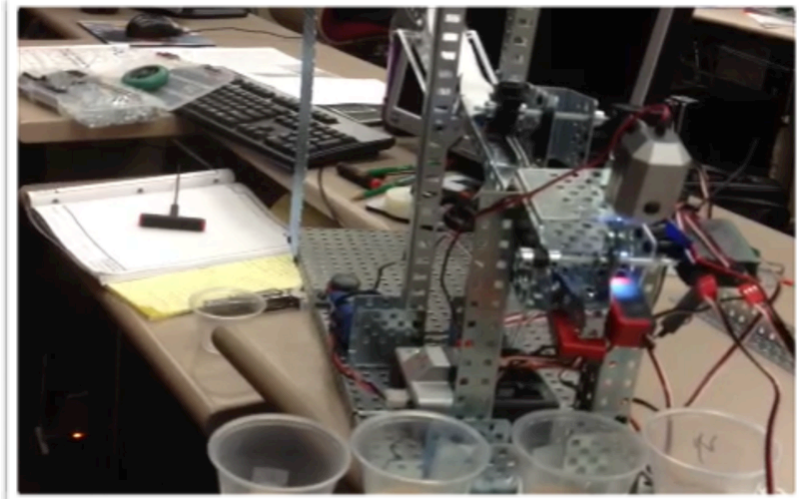
An introduction to general topics in engineering, with a focus on mechanical engineering. We will do a lot of designing and testing of materials and devices. There is a particular emphasis on mathematical modeling and data analysis.

Electricity, Electronics and Control Systems

An introduction to modern digital electronics and control system programming. We will learn wiring, electrical systems, programming, how to work with logical circuits and other topics in electrical and computer engineering.

Engineering Research

In this course students will complete two or three longer projects tying to together the concepts of the course. These will involve a significant amount of outside research.



What is Engineering Academy?

The Dublin Engineering Academy is a one year, three period block class designed to give students an introduction to the study of engineering. It is designed both to prepare students to study engineering in college and for students to see if they might be interested in studying engineering. While the focus is on mechanical, electrical and systems engineering, many other areas of engineering are touched on in order to give students a good feel for the variety of engineering disciplines they might study. The course is project oriented, and focused on developing good engineering skills. Students will learn how to design, build and test mechanical and electrical systems. They will learn how to program control systems. They will use tools such as MatLab, Excel and R to create and analyze data. There will also be an emphasis placed on working cooperative in small groups and on effective communication.

Applications: <https://tinyurl.com/AcademyCommonApp2018>