MIT Beaver Works Summer Institute
Spring 2024 Outreach Program – 6 Courses

Yes! You Can Program Autonomous Cars
Yes! You Can Design, Build and Fly Model Aircraft
Yes! You Can Program Cognitive Assistants!
Yes! You Can Program Racing Drones!
Many Interesting Things for Aspiring Engineers!
Yes! You Can Learn Practical Radio**

WHO: High School Students (9th and 10th grade)
WHEN: Saturdays 11am-2pm (EST) - March 9, 16, 23, 30, April 6, 13, 20, 27, 2024*
WHERE: Virtually, through Zoom! (except for the in-person Practical Radio)
REGISTER: https://mit-bwsi.formstack.com/forms/bwsi_spring_2024

** Practical Radio is in-person at MIT campus Saturdays 11am – 3pm (EST).
Who: High School Students (9th and 10th grade) interested in learning about coding and robotics! Beginners encouraged!

When: Asynchronous course with instructor office hours & required meetings on Saturdays from 11am-2pm (EST) - March 9, 16, 23, 30, April 6, 13, 20, 27, 2024

Where: Online Edly platform through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_spring_2024
Yes! You Can Design, Build and Fly Model Aircraft!

Design
Build
Fly
Crash
Rebuild

Introduction to RC Model Aircraft Design

Who:  High School Students (9th and 10th grade) interested in Aerospace and Aeronautics.

When:  Saturdays 11am-2pm (EST) - March 9, 16, 23, 30, April 6, 13, 20, 27, 2024

Where:  Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_spring_2024

No Prior Experience Required!
Yes! You Can Program Cognitive Assistants! — a BWSI crash course

An introduction to artificial intelligence through building an autonomous cognitive assistant!

Who: High School Students (9th and 10th grade) interested in learning about code and artificial intelligence! Beginners Encouraged!

When: Saturdays 11am-2pm (EST)-March 9, 16, 23, 30, April 6, 13, 20, 27, 2024

Where: Virtually, through Zoom!

No Prior Experience Required!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_spring_2024

LEARN PYTHON!
EXPLORE MACHINE LEARNING!
LEARN ABOUT NATURAL LANGUAGE PROCESSING!
Yes! You Can Program Racing Drones

Beaver Warrior

Autonomous Drone Obstacle Course

A BWSI (Beaver Works Summer Institute) Course

Learn to Code Python

No Prior Experience Required!

Who: High School Students (9th and 10th grade) interested in Aerospace and Aeronautics.

When: Saturdays from 11am-2pm (EST) - March 9, 16, 23, 30, April 6, 13, 20, 27, 2024

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_spring_2024
Many Interesting Things:
For Aspiring Engineers
From Transistors to Data Science
A BWSI Medlytics intro course by Christian Cardozo

An early introduction to the technologies that shape our world, with applications to medical data analytics!

Python • Computer Architecture • Machine Learning
Computer Vision • Linux • The Internet

No prerequisites.
No pressure.

WHO:
High School Students (9th and 10th grade) interested in learning about computers, coding and medical data analytics. Beginners Encouraged!

WHEN:
Saturdays 11am-2pm (EST)-March 9, 16, 23, 30, April 6, 13, 20, 27, 2024

WHERE:
Virtually, through Zoom!

REGISTER:
https://mit-bwsi.formstack.com/forms/bwsi_spring_2024
No Prior Experience Required!

Who: High School Students (9th and 10th grade) interested in Ham Radio Technology.

When: Saturdays 11am-3pm (EST) - March 9, 16, 23, 30, April 6, 13, 20, 27, 2024

Where: In-person at MIT campus!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_spring_2024