MIT Beaver Works Summer Institute
Spring 2022 Outreach Program – 6 Courses

Yes! You Can Program Autonomous Cars
Yes! You Can Hack and Code!
Yes! You Can Design, Build and Fly Model Aircraft
Many Interesting Things for Aspiring Engineers!
Yes! You Can Program Cognitive Assistants!
Yes! You Can Analyze the Building Blocks of Life!

WHO: High School Students (9th and 10th grade)
WHEN: Saturdays 11am-2pm (EST) - March 5, 12, 19, 26, April 2, 9, 16, 23, 2022 *
WHERE: Virtually, through Zoom!
REGISTER: https://mit-bwsi.formstack.com/forms/bwsi_spring_2022

* Schedule for the “Yes! You Can Analyze the Building Blocks of Life!” course is different (12 sessions on Tuesdays).
Yes! You Can Program Autonomous Cars

No Hardware Required!

Learn to Code Python!

No Prior Experience Required!

Who: High School Students (9th and 10th grade) interested in learning about coding and robotics! Beginners encouraged!

When: Saturdays 11am-2pm (EST) - March 5, 12, 19, 26, April 2, 9, 16, 23, 2022

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No Cost!
Yes! You can Hack and Code!

A BWSSI Embedded Security Crash Course

MITRE Project

No Cost!

Learn To Code Python!

Who: High School Students (9th and 10th grade) interested in learning about code and hacking! Beginners encouraged!

When: Saturdays 11am-2pm (EST) - March 5, 12, 19, 26, April 2, 9, 16, 23, 2022

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No Prior Experience Required!
Yes! You Can Design, Build and Fly Model Aircraft!

Design
Build
Fly
Crash
Rebuild

A BWSI (Beaver Works Summer Institute) Course

Introduction to RC Model Aircraft Design

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

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No Prior Experience Required!
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 5, 12, 19, 26, April 3, 9, 16, 23, 2022

WHERE: Virtually, through Zoom!

REGISTER: https://mit-bwsi.formstack.com/forms/bwsi_spring_2022
Yes! You Can Program Cognitive Assistants! — a BWSI crash course

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

LEARN PYTHON!

EXPLORE MACHINE LEARNING!

LEARN ABOUT NATURAL LANGUAGE PROCESSING!

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

When: Saturdays 11am-2pm (EST)-March 5, 12, 19, 26, April 3, 9, 16, 23, 2022

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_spring_2022

No Prior Experience Required!
Yes! You can analyze the building blocks of life! Computational Biology And The Microbiome

Who: High School Students (9th and 10th grade) interested in computational biology and the microbiome! Beginners encouraged!

When: 12 sessions from March 4th to May 26th, 2022. Asynchronous weekly modules (recorded lectures, notes, assignments), Office-hours on Tuesdays at 4pm EST.

Where: Virtually, through Zoom for office-hours.

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_spring_2022

No Prior Experience Required!