MIT Beaver Works Summer Institute
Fall 2023 Outreach Program – 6 Courses

Girls Who Program Autonomous Cars
Girls Who Program Cognitive Assistants
Girls Who Want to Learn Many Interesting Things
Girls Who Design, Build and Fly Model Aircraft
Girls Who Want to Learn the Basics of ASICS
Girls Who Program Racing Drones

WHO: High School 10th and 11th Grade Female Students *
WHEN: Saturdays 11am–2pm (EST) – October 14, 21, 28, November 4, 11, 18, December 2, 9 2023
WHERE: Virtually, through Zoom!
REGISTER: https://mit-bwsi.formstack.com/forms/bwsi_fall2023

* While all BWSI programs are open to eligible students of any gender identity this fall program is designed to encourage and support female students in STEM.
Who: Female High School Students (10th and 11th grade) interested in learning about coding and robotics! Beginners encouraged!

When: Saturdays 11am-2pm (EST) – October 14, 21, 28, November 4, 11, 18, December 2, 9 2023

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall2023

While all BWSI programs are open to eligible students of any gender identity, this fall program is designed to encourage and support female students in STEM.
An introduction to artificial intelligence through building an autonomous cognitive assistant!

Who: Female High School Students (10th and 11th grade) interested in learning about code and artificial intelligence! Beginners Encouraged!

When: Saturdays 11am-2pm (EST) – October 14, 21, 28, November 4, 11, 18, December 2, 9 2023

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsiformstack.com/forms/bwsi_fall2023

No Prior Experience Required!

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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: Female High School Students (10th and 11th grade) interested in learning about computers, coding and medical data analytics. Beginners Encouraged!

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Girls Who Design, Build and Fly Model Aircraft — A BWSI Crash Course.

Design Build Fly Crash Rebuild

Introduction to RC Model Aircraft Design

Who: Female High School Students (10th and 11th grade) interested in Aerospace and Aeronautics.

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Where: Virtually, through Zoom!

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Girls Who Want to Learn the Basics of ASICs

Semiconductors and Application Specific Integrated Circuits (ASICs) are everywhere. In this course students will learn about semiconductors and get hands-on experience on how to design and arrange them to perform a specific function.

Who: Female High School Students (10th and 11th grade) interested in learning about semiconductor design and fabrication! Beginners encouraged!

When: Saturdays 11am–2pm (EST) – October 14, 21, 28, November 4, 11, 18, December 2, 9 2023

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall2023

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Girls Who Program Racing Drones

Autonomous Drone Obstacle Course

No Prior Experience Required!

Who: Female High School Students (10th and 11th grade) interested in Aerospace and Aeronautics.

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Where: Virtually, through Zoom!

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