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 Back to bASICs
Girls Who Program Racing Drones

No Prior Experience Required!

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.
Girls Who Program Autonomous Cars

A BWSI Mini-Racecar Crash Course

No Hardware Required!

Learn To Code Python!

No Cost!

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!

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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!

WHEN: Saturdays 10am-1pm (EST) – October 14, 21, 28, November 4, 11, 18, December 2, 9 2023

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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 Aerospace and Aeronautics.

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

Where: Virtually, through Zoom!

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No Prior Experience Required!

Introduction to RC Model Aircraft Design — A BWSI Crash Course.
Girls Who Want to Learn Back to bASICs

Beaver Works Summer Institute will offer a brand-new course on open source semiconductor design and fabrication. Students will receive hands-on experience on how to design and arrange semiconductors on a nanometer scale 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

Who: Female High School Students (10th and 11th grade) interested in Aerospace and Aeronautics.
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Where: Virtually, through Zoom!

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

Learn to Code Python

No Prior Experience Required!

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