

#### **MIT Beaver Works Summer Institute**

Fall 2024 Outreach Program – 7 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





### No Prior Experience Required!

WHO: High School 10th and 11th Grade Female Students \*

**WHEN:** Saturdays 11am–2pm (EST) – October 12, 19, 26,

November 2, 9, 16, 23, December 7 2024

**WHERE:** Virtually, through Zoom!

REGISTER: https://mit-bwsi.formstack.com/forms/bwsi\_fall\_2024

Application Deadline: October 1, 2024

















#### GIRLS WHO PROGRAM AUTONOMOUS CARS



No Prior Experience Recuired! **Who:** Female High School Students (10th and 11th grade) interested learning about coding and robotics! Beginners encouraged!

When: Saturdays 11am – 2pm (EST) – October 12, 19, 26,

November 2, 9, 16, 23, December 7 2024

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi\_fall\_2024

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.

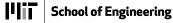
**Application Deadline:** October 1, 2024





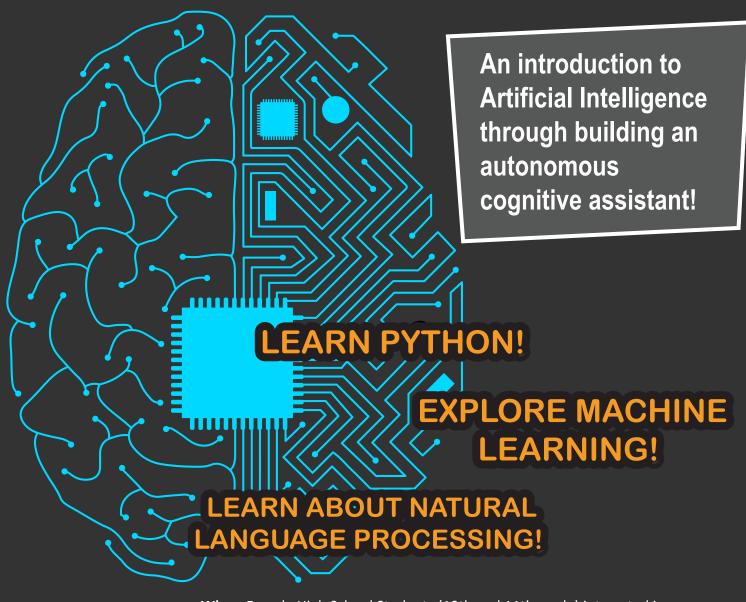








## Girls who program cognitive assistants! — a BWSI crash course



No Prior Experience Required! **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 12, 19, 26, November 2, 9, 16, 23, December 7, 9 2024

Where: Virtually, through Zoom!

**Registration Form:** https://mit-bwsi.formstack.com/forms/bwsi\_fall\_2024

**Application Deadline:** October 1, 2024











#### Many Interesting Things:

For Aspiring Engineers
From Transistors to Data Science

A BWSI Medlytics intro course

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.

No Prior

WHO:

Female High School Students (10th and 11th grade) interested learning about computers, coding and

medical data analytics. Beginners Encouraged!

**EXPERIENCE** 

WHEN: Saturdays 11am – 2pm (EST) – October 12, 19, 26,

November 2, 9, 16, 23, December 7 2024

REQUIRED!

WHERE: Virtually, through Zoom!

**Application Deadline:** October 1, 2024

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





## **No Prior** Experience Required!

**Application Deadline:** October 1, 2024



Who:

Female High School Students (10th and 11th grade) interested in

Aerospace and Aeronautics.

When:

Saturdays 11am - 2pm (EST) - October 12, 19, 26,

November 2, 9, 16, 23, December 7, 2024

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi\_fall\_2024



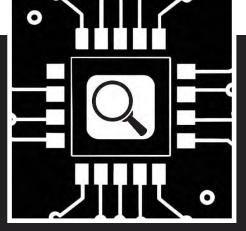




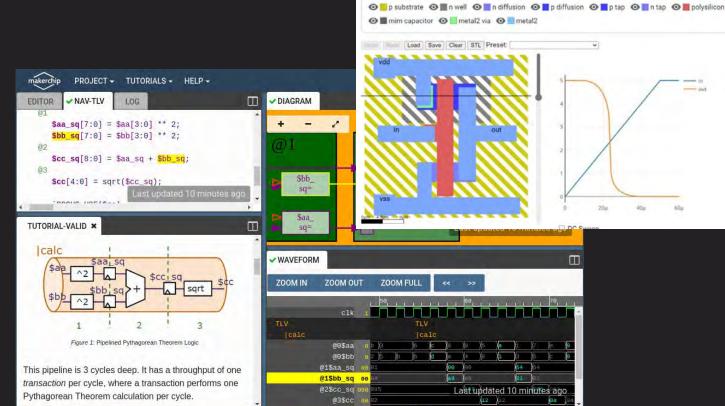


# Girls Who Want to Learn the Basics of ASICs

SILIMIZ



This course will explore topics 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.



#### No Prior

#### **EXPERIENCE**

#### REQUIRED!

**Application Deadline:** October 1, 2024

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 12, 19, 26,

November 2, 9, 16, 23, December 7, 2024

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi\_fall\_2024



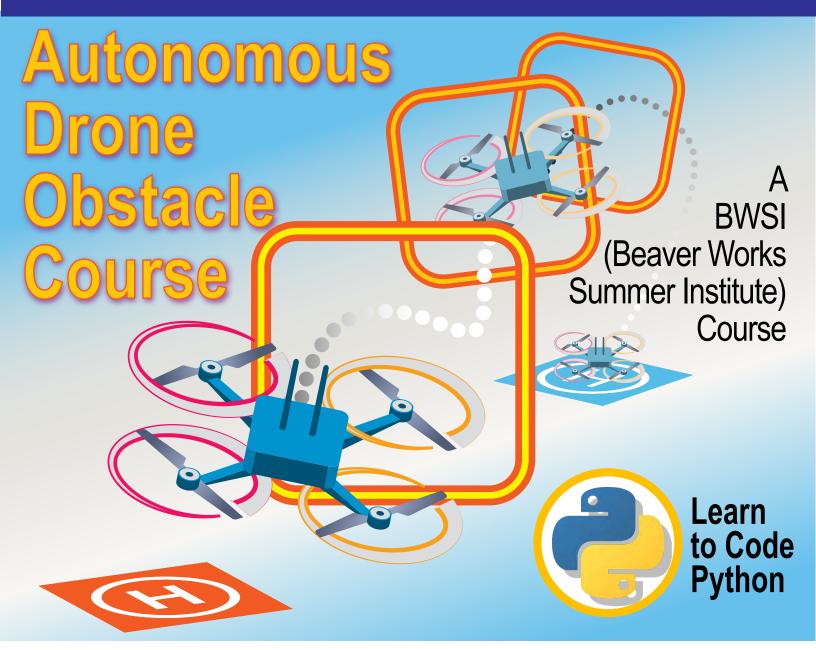








# Girls Who Program Racing Drones Beaver Warrior



#### No Prior Experience Required!

**Application Deadline:** October 1, 2024



Who: Female High School Students (10th and 11th grade)

interested in Aerospace and Aeronautics.

When: Saturdays 11am – 2pm (EST) – October 12, 19, 26,

November 2, 9, 16, 23, December 7 2024

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi\_fall\_2024









## GIRLS WHO LEARN PYTHON





#### No prerequisites, no pressure!

No Prior Experience Required! Who: Female High School Students (10th and 11th grade)

interested learning about coding. Beginners encouraged!

When: Saturdays 10am-11am (EST)

October 12, 19, 26, November 2, 9, 16, 23, December 7 2024

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi fall 2024

**Application Deadline:** October 1, 2024







