MIT Beaver Works Summer Institute
Fall 2021 Outreach Program – 7 Courses

Girls Who Program Autonomous Cars
Girls Who Hack and Code
Girls Who Design, Build and Fly Model Aircraft
Girls Who Want to Learn Many Interesting Things
Girls Who Program Cognitive Assistants
Girls Who Program Autonomous Cars – BWSI-Pacific
Kwaj Mini-RACECAR Middle School
(Kwajalein Atoll, Marshall Islands)

No Prior Experience Required!

**WHO:** High School 11th Grade Female Students

**WHEN:** Saturdays 11am-2pm (EST): October 16, 23, 30, November 6, 13, 20, December 4, 11, 2021

**WHERE:** Virtually, through Zoom!

**REGISTER:** https://mit-bwsi.formstack.com/forms/bwsi_fall2021
No Prior Experience Required!

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High School 11th Grade Female Students

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Kwaj Mini-RACECAR Middle School
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Girls Who Program Autonomous Cars

A BWSI Mini-Racecar Crash Course

Who: Female High School Juniors interested in learning about code and robots! Beginners encouraged!

When: Saturdays 11am to 2pm (EST) – 10/16, 10/23, 10/30, 11/6, 11/13, 11/20, 12/4, 12/11, 2021

Where: Virtually, through Zoom!

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No Prior Experience Required!
Girls who Hack Code! A BWSI Embedded Security Crash Course

MITRE Project

No Cost!

Learn To Code Python!

No Prior Experience Required!

Who: Female High School Juniors interested in learning about code and hacking! Beginners encouraged!

When: Saturdays 11am-2pm (EST) - 10/16, 10/23, 10/30, 11/6, 11/13, 11/20, 12/4, 12/11, 2021

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall2021
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 Juniors interested in Aerospace and Aeronautics.
When: Saturdays 11am to 2pm (EST) – 10/16, 10/23, 10/30, 11/6, 11/13, 11/20, 12/4, 12/11, 2021
Where: Virtually, through Zoom!
Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall2021

No Prior Experience Required!
Girls who want to learn
Many Interesting Things:
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!

Computer Architecture • Python
Machine Learning • Computer Vision

No prerequisites.
No pressure.

Who: Female High School Juniors interested learning about computers, coding and medical data analytics. Beginners Encouraged!

When: Saturdays 11am to 2pm (EST) – 10/16, 10/23, 10/30, 11/6, 11/13, 11/20, 12/4, 12/11, 2021

Where: Virtually, through Zoom!

Registration Form: https://mit-bws.formstack.com/forms/bwsi_fall2021
Girls who program cognitive assistants! — a BWSI crash course

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

Who: Female High School Juniors interested in learning about code and artificial intelligence! Beginners Encouraged!

When: Saturdays 11am to 2pm (EST) – 10/16, 10/23, 10/30, 11/6, 11/13, 11/20, 12/4, 12/11, 2021

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_fall2021

No Prior Experience Required!
Girls Who Program Autonomous Cars

Connect with Girls across the Pacific!

Learn to Code Python!

No Hardware Required!

No Prior Experience Required!

Who: Female High School Juniors interested in learning about code and robots! Beginners encouraged!

When: Saturdays 1pm to 4pm (HST) – 10/16, 10/23, 10/30, 11/6, 11/13, 11/20, 12/4, 12/11, 2021

Where: Virtually, through Zoom!

Registration Form: https://mit-bwsi.formstack.com/forms/bwsi_student_kwaj_fall_application_2021
Kwaj students in grades 7 – 9. Beginners encouraged!

TBD, one afternoon/evening per week beginning late October

Namo Weto Youth Center

Registration form available at Namo Weto Youth Center

RACING ROBOTS!

LEARN TO CODE PYTHON!

No Prior Experience Required!

No Hardware Required!

Who: Kwaj students in grades 7 – 9. Beginners encouraged!
When: TBD, one afternoon/evening per week beginning late October
Where: Namo Weto Youth Center
Registration Form: Registration form available at Namo Weto Youth Center