



# JERSEYSTEM

## Robotics Course Overview

SCAN HERE  
Learn more about  
our programs!



### Syllabus Details

- Lesson 1: Assembling TacoBot: Introduction to SPIKE and software
- Lesson 2: Program TacoBot to move following simple commands
- Lesson 3: Moving Challenge: Sequential movements LocoBot and arm movement
- Lesson 4: What's a Robot? Learn about using the distance sensor
- Lesson 5: Let's Keep Learning about Color Sensors!
- Lesson 6: Learn MoonRanger, a Lunar Rover: Forever loops
- Lesson 7: Let's Learn about a Cargo Unmanned Ground Vehicle: If statements
- Lesson 8: Challenge, Detour Detection: About Nested Decisions
- Lesson 9: Real Life Challenges: Team explorer and DARPA Subterranean (SubT) Challenge
- Lesson 10: Class Challenge and Celebration

### Program Structure (2hrs)

15 Min	Entry ticket
15 Min	Women in STEM
30 Min	New Material
15 Min	Social Emotional Learning
30 Min	Project Work
15 Min	Exit Ticket

### JerseySTEM Standards

R-MS1-1: Develop models to describe the structural and functionality of simple robotics systems and extended robotic networks.


R-MS1-2: Analyze and interpret data on the performance of robotic systems before and after interactions to determine if a programmed response or action has occurred.


R-MS1-3: Gather and interpret information from various sources to understand and design principles and functionalities of existing robotic technologies.

R-MS1-6: Undertake a design project to create a functional robotic system that addresses a specific need or problem.

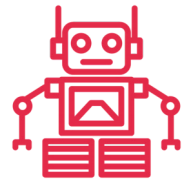
### LET'S TALK!

 [jerseystem.org/contact-us](http://jerseystem.org/contact-us)

 [company/jerseystem](https://www.linkedin.com/company/jerseystem)

 186 Columbia Turnpike #5-160  
Florham Park, NJ 07932

 JerseySTEM  [jerseystem](https://www.instagram.com/jerseystem)



**12-20 Students**  
1:4 Instructor to Student Ratio



**Field Trip**



**Industry Speaker**