CoderZ™

# Cyber Robotics 102

## Dive deeper into the world of robotics and coding!

Students take coding and robotics to the next level while learning physical concepts, collaboration, and critical thinking skills… all while programming their own virtual robots.

High School/Advanced

20-25 hours of curriculum & practice

Build with Blockly

- Easy, web-based access for all
- Ready for anything – Hybrid or Virtual
- Gamified missions with instant feedback
- 21st Century Skills embedded into the curriculum
- Takes coding skills to the next level

### Students Experience Outcomes:

+ Physics:
  - Kinematics: speed, acceleration
  - Dynamics: Forces, moments, levers
+ Control systems:
  - Motors and sensors
  - Speed control
  - Obstacle detection/ avoidance
  - Open/close loop control
  - State machine
+ Software:
  - Operators: mathematical & logical
  - Conditions and Loops
+ Mathematics:
  - Geometry & stereo-metric: distance, angles, coordinates
  - Spatial cognition
+ Text-based language & solving syntax errors.

Lessons are aligned with CSTA and NGSS standards.

### Teachers Resources:

- Course Progress Heatmap
- Teacher's Guides
- Lesson Plans
- Knowledge Base Center
- Suggested Solutions
- Help Desk

**SIGN UP FOR A FREE TRIAL NOW!**

www.GoCoderZ.com contactus@gocoderz.com

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