Introduction to Robotics Instructional Plan

Created on August 7, 2026

Contact Information

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COURSE DESCRIPTION

Students will use critical thinking skills, trial and error, and complex problem solving to complete certain predefined tasks autonomously with coded robots. These robots will complete "missions" to earn points to win their competition. Students will work together on teams of 3-4 to create their own individual robot.

COURSE ACTIVITIES

Throughout the year, students will:

- Inventory control
- Design a custom robot
- Code a robot
- Roles within a team
- FIRST Lego League (FLL) Competition
- GEAR Robotics Competition (if time allows)

GRADES – Click here for → YWLA Grading Policy

Major (Test, Projects, Writing)	60%
Minor (Notes, Daily Work)	40%

Classroom Resources (examples below)

- Classroom Robotics Laptop
- LEGO Midstorm EV3 Robotics Kit
- LEGO Spike Prime Robotics Kit
- LEGO coding websites
- FLL and GEAR Boards and challenge sets

Competition Dates TBD

COURSE OBJECTIVES AND TOPICS (CED Breakdown and Description)

- Basic Robot Build
- Add on Parts
- Basic Coding
- Advanced Coding
- First Lego League Competition

YOUNG WOMEN'S Leadership Academy

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Please feel free to reach out with any questions or concerns. We are excited to work together to make this a successful year of learning!
