

Robotics Workshop for Teachers

June 20 - June 24

July 11 - July 15

August 22 - August 26



INTRODUCTION

This one week certification course will introduce educators to the basic concepts of robotics using the LEGO® MINDSTORMS® robot to program and compete in a variety of challenges.

No previous programming experience is required.

COURSE OUTCOMES

The future is Robotics! Begin your students' journey into this fascinating world.

- Learn how to extend the concepts of robotics to teach STEM education.
- Learn about the engineering design process and the iterative nature of engineering.
- Learn how to make physics fun for students by teaching basic concepts like forces and motion using a 3D robot.

FEES

\$350 Includes:

- Virtual Robotics Toolkit license, a robot simulator developed by Cogmation Robotics which can be used to control 3D models created in LEGO® Digital Designer.
- 30 hours of instruction, including plenty of hands on software training using both the real robot and the Cogmation simulator
- Sample lesson plans to get you started

COURSE OUTLINE

- Designing a robot using LEGO® Digital Designer
- Building a physical robot using a LEGO® MINDSTORMS® kit
- Programming a robot using EV3-G programming language
- Testing and Simulating your 3D robot design in the Virtual Robotics Toolkit

LOCATION

Cogmation Robotics

554 Pembina Highway—2nd floor

For registration or enquiry contact

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