

**Berrien Springs Parent Partnership  
Independent Study/Project Based Learning Course Description**

Course Title: Lego Robotics 101

Ages/Grade Levels: 8/3rd Grade through 18/12th Grade Category: Electronic

Class size: Min:5 Max:20

Location(s), Dates and Times: Address: Lakeshore Roller World 5567 Red Arrow Hwy Stevensville, MI 49127

\*Fall Semester

\*Tuesday

\*10:00am - 12:30pm

Provide directions to location if necessary:

Contact/Instructors: Sophia S. Mason

Email and Website: selfasteamml@gmail.com

Best phone #: 269-519-3855 Publish # on website? Y

Classes are graded on a Pass/Fail basis. What is the criteria for passing the class?

-Pass consist of class participation and three tests (beginning, middle and end of semester).

Briefly describe the course, including topics to be covered and subject areas that the course will cover -this is what will be posted on our website (must also attach syllabus):

- Students will learn the very basics of Lego EV3.
- Once students have learned all the basic.
- The students will then have a chance to put all those things to work.
- Students will have the opportunity to complete the missions on a Lego Competition Mat

List any materials that students are required to bring to class:

Please attach:

- 1) One 10 question (multiple choice, T/F, or open ended) pre/post test to be given the first and last weeks of class that will assess knowledge of subject(s) covered in class during the semester.  
OR  
List other method of evaluation resulting in a percentage improvement score (presentation, art fair, etc) Score must be recorded on the attendance form provided.
- 2) Class syllabus
- 3) If available, attach a list of online resources pertinent to class or subject area.

Cost per student for entire semester, including materials and supplies: \$ 350

Thank you for providing your expertise to the homeschool students in our community!

## Class Syllabus

- Week 1: Think Like a Robot / Team Activities/Build EV3 Robot
- Week 2: Learn Robot Functions
- Week 3: Learn Robot Functions
- Week 4: Introduction to Lego Mat / Work on Missions
- Week 5: Work on Missions
- Week 6: Work on Missions
- Week 7: Work on Missions
- Week 8: Competition Day / Dismantle Robots and Class Awards (Dress like a Lego Character or Robot)