EEME Intermediate Syllabus

Fall 2017

# Instructor Information

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| Instructor | Email | Class Location & Hours |
| **Chris Gearhart** | cgearhart@homeoftheshamrocks.org | Lincoln Township Library Monthly Tuesdays 6-8pm |

# General Information

## Description

Students will learn hands on electronics and the primary purpose is to

engage students in real component based electronics that when assembled together will

perform real tasks that they get to see and realize how things work that they use daily.

EEME (pronounced “Ee-Mee” stands for Electrical Engineering Mechanical Engineering

and the class is part of preparing students for STEM opportunities.

The course is based on the EEME website https://www.eeme.co/dashbrd that supplies

(12) complete hands-on video guided electronic kits for the beginner course that the

students keep.

## Course Highlights:

• Continuation from EEME Beginner’s course (pre-requisite).

• Class meets monthly on Tuesday from 6-8PM (see schedule for details)

• Receive 7 electronics kits and build a Robot Rover with several add-on projects/with programming and class projects for the semester.

• Assemble kits at home, following online video guided step by step instructions.

• Bring the previously assigned kits to **monthly class**. With instructions taught by Mr.

Gearhart in class, disassemble kits and use parts to create one larger, more complicated

device to expand the students’ knowledge!

• Repeat for a total of 4 class sessions per semester.

• We will meet at the beginning of the semester for a brief class orientation to distribute

the first months kits and class instructions when the kit orders have been received.

• Parents are encouraged to attend class and engage in class participation!

• See https://www.eeme.co/dashbrd for more details about the company, kits and

testimonials.

• Meets at Lincoln Township Library located: 2099 W. John Beers Rd., Stevensville, MI

## Expectations and Goals: Pass/Fail

Complete provided kits prior to class and participate in the class projects.

# Course Materials

## Required Materials (most should be provided by teacher covered in course fee, indicate if provided by student, i.e. sewing kit)

* All kit components are provided on arrival of class.

## Optional Materials (provided by student/family)

* Compartment storage organizer with dividers used to keep electronic components organized.

# Course Schedule

| Week | Topic |  |  |
| --- | --- | --- | --- |
| Tuesday 9/126PM for kits | Brief Welcome Orientation  | Time: 6pm  | Pickup Kits #1-3 |
| Tuesday 10/3 6-8PM | Class #1  | Telephone Project | Pickup Kits #4-6 |
| Tuesday 11/7 6-8PM | Class #2  | Counter Project | Pickup Kits #7-9 |
| Tuesday 12/56-8PM  | Class #3  | Sound Level Meter Project | Pickup Kits #10-12 |
| Tuesday 1/9 6-8PM | Class #4 Robot Hampster Class Ends Project  |  |
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# End of Semester: Finished Work

* Evidence of Learning: Project completion, 100% class attendance/participation.