VIP SECTION SPRING 2020

Lecture and Lab Saturday 9:00-12:00

<u>Date</u>	Topic
1/18	Intro EMC + FFT + Partners
	Time & Frequency Domain
1/25	E&M Field Basics + Prep
	Twisted Pair vs. Open Loop
2/1	Poster Project + Groups + Prep
	Coaxial Shielding
2/8	Ground Noise in Digital Logic +
	Laboratory Investigation
2/15	FCC Conducted Emissions
	Laboratory Investigation
2/22	FCC Radiated Emissions
	Laboratory Investigation
2/29	Poster Device, Procedure, Regs
	Presentations and Demos
3/7	Characteristic Impedance
	+ Mono & Dipole
	Study Dipole and Monopole
3/14	PCB Assignment 1
	PCB Assignment 1
3/21	SPRING VACATION
0/00	No Class on Saturday
3/28	Prep for Poster
<i>A 1</i> —	Project
4/7	POSTER PRESENTATION
*	No class on Saturday
*	4/17 Uncertainty
*	4/25 Don's Talk
••	5/2 Field Trip

Dates to be determined

Electromagnetic Compatibility/Signal Integrity

Register: ENGR 279, 379, 479 Interested Students Contact:

Prof. J. V. Krogmeier (JVK@purdue.edu) or Prof. Barrett Robinson (robinbar@purdue.edu)

Conducted Emission Tests

REGISTER

Sophomores --- ENGR 27920-010

Juniors --- ENGR 37920-010

Seniors --- ENGR 47920-010

EMC/Signal Integrity

Radiated Emission Tests

IF AN ELECTRICAL/ELECTRONIC DEVICE IS SOLD IT NEEDS TO PASS ELECTROMAGNETIC COMPATIBILITY TESTS LEARN HOW TO PERFORM THESE TESTS

EACH STUDENT WILL:

Refresh ECE skills.

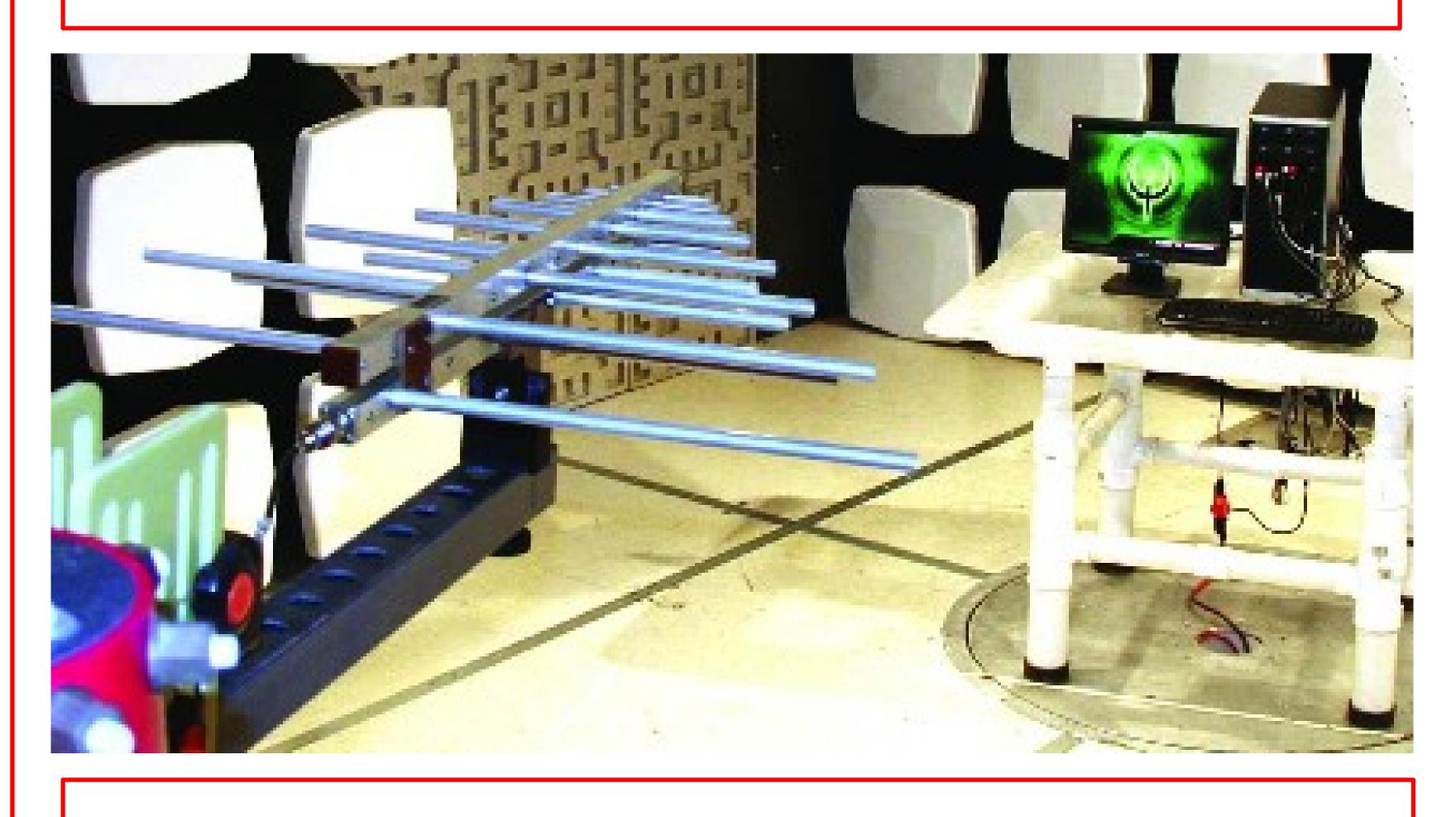
Design and use EMC sensors on student designed experiments,

Learn relevant regulations for instrumentation and emissions testing for Class A and Class B.

Learn to recognize situations that will increase/decrease emissions.

Work with a group to prepare and test a commercial product to meet a specified compliance goal.

FIELD TRIP



Date and Location to be specified.