What is EECS 300?
EECS 300 (3 cr) is a new design-oriented course that is running for the third time in Fall 2020. It counts as an upper level EE technical elective for EE students who entered the CoE prior to Fall 2019, and is a required part of the EE degree program for anyone who enters the CoE starting in Fall 2019. In this course, students will work with embedded systems, signal processing, various analog and digital sensors, power systems, wireless, and more in their design project.

What is EECS 300's F20 project about?
This course is intended to apply and deepen the knowledge gained in core EECS courses (215, 216, 230, 280) and allows the exploration of more advanced topics as part of a design project with real world relevance. F20’s project, will be improving and creating new sensing and support technologies used to monitor water systems throughout the world. The “node” system we are basing our work on was created by the Open Storm lab, here at UM (http://open-storm.org/). The data these devices gather is used to prevent flooding, create healthier watersheds, and help respond more swiftly in the event a flood does happen. All design goals and specifications for the course project will be driven by the actual Open Storm project’s needs.

Override Approved Prerequisites/Corequisites for F20
Prerequisite Waived: EECS 200
Prerequisites: Minimum 2 of 4 215/216/230/280;
Corequisites: Remaining 2 of 215/216/230/280; else,
Special permission of instructor: Contact Prof. Gilchrist, gilchrst@umich.edu

Is this course for me?
• Do I want to understand how the class content I’ve learned so far can be used to make real world impact?
• Do I want an introduction to working with embedded systems?
• Am I interested in working with electronic systems that bridge the gap between software and hardware?
• Do I want to work on a design project where you are told what the goals are, rather than how to do it?
• Do I need three (3) credits of upper level EE technical elective courses for my degree
• Am I interested in the relevance of EE in creating a sustainable climate?
If you answered “yes” to any of these, this is the class for you! Register now for Fall 2020!

Course Meeting Times (Professor Brian Gilchrist (gilchrst@umich.edu))
Lecture & Project: Thurs 3 - 5 PM in 1025 GGBL
Lab & Project: Tues 12 - 3 PM in 1230 EECS