O²P – Open Option Projects

ECE395-B / ECE495-B

Course Syllabus for Fall 2023
Wednesday 5:30-7:30, Engr B101

Instructor: Olivera Notaros, olivera@colostate.edu
Office: Engineering Building, C201F
Office hours: send email to schedule a meeting
Class TA: Prathamesh Chougule, prathamesh.chougule@colostate.edu
EIR website: www.csueir.com

Class requirements:

- **Important dates and actions:**
  - 9/6 – Class time: OOP requirements and project sign-up
  - Workshop sign-up will be finalized via email and in individual meetings
  - 9/20, midnight: Project Proposal (2 pages) uploaded to Canvas (one per team)
  - Before 9/22: Preliminary Design Review meeting w/EIR Mentor
  - 9/22, midnight: Revised project proposal, approved by an EIR Mentor uploaded to Canvas
  - 9/22, midnight: EIR Meeting Form Uploaded to Canvas
  - Before 11/3: Mid-Project Review meeting w/EIR Mentor
  - 11/3 – Mid-Report uploaded to Canvas; approved by EIR Mentor
  - 11/3, midnight: EIR Meeting Form Uploaded to Canvas
  - 11/8 – Class time: Mid-project meeting
  - Before 12/1: Final Project Review meeting w/EIR Mentor
  - 12/1, midnight: Project report, approved by EIR Mentor uploaded to Canvas
  - 12/1, midnight: EIR Meeting Form Uploaded to Canvas
  - Option of Project Demos will be discussed during semester

- **Attend 2 workshops per semester** (this requirement will be discussed via email: one Arduino/RaspberryPi and one for ECE Creator Space Equipment) - tbd
- **Maintain Project Notebook** (can re-use in the future); paper notebook or electronic document
- **Course TA will meet with teams at least two times in the semester.**
- All team members are expected to attend meetings with EIR Mentor, Course TA and Course Instructor.

Project notebook:

Every student should purchase a notebook and use it while working on the project to take notes, tape important papers inside, write during meetings and similar. Notebook can be used over multiple semesters, especially if a student continues work on the same project.

EiR mentors:

Each team will propose an EiR mentor that they believe would be the best to guide them over the course of their project work.

- ❖ Schedule and expertise on EIR website: https://www.csueir.com/
- ❖ Contact info will be posted on class Canvas

Due documents:

All due documents are team deliverables and should be uploaded to Canvas by due date.

Formatting of all documents: font size 11 or 12, Times New Roman or similar, single spacing, 1" margins on all sides, justified (straight edges on both left and right sides).

Workshops:

List of workshops with exact dates will be provided in an email or during second class-time.
Some options that were offered in the past were:

		Basic Arduino Workshop	
		Advanced Arduino workshop (topics)	
		RaspbPi	
		Soldering techniques	
		3D printers	
		CNC machines / PCB prototyping	
		IR pre-heater, reflow-oven, laser cutter	
		Laser cutter	

Break your deliverables into levels:

MUSTS…
(CONFIDENT) / for sure…

WANTS…
maybe…

WOULD BE NICE…
(HOPEFUL) / ambitious…

Course grading policy:
- ECE395B is 1-credit SME
- ECE495B is 1-credit Tech Elective
  - Grading: S/U

To get an S-grade, student must attend required number of workshops, actively work with the team on the project and documents due, attend required meetings and show knowledge of the technical concepts related to the designed product.