ECE Senior Design Program
Agenda for August 24, 2022

Senior design requirements

1. Senior Design numbers:
   24 projects; some ECE-only, canine w/BME, + 6 are recruiting MEs + VIP and Indep.Study students
   - Nice mix of student majors:
     ECE, ECE Indep. study, BME/ME, ME, VIP;
     Not confirmed yet: interaction with COB students – MKT364 (tbd)
   - Supervised by ECE and ME faculty, Industry mentors and EIRs!

2. Career Fair Dates
   CSU Career Expo and Internship Fair – 9/21, 10:30 – 3:30
   https://career.colostate.edu/csu-all-campus-career-fair/
   College of Engineering Career Fair 10/13, Canvas Stadium
   https://www.engr.colostate.edu/engineering-success-center/career-fair/

3. E-mail
   - *@Rams.colostate.edu will be used
   - The importance of a timely response

4. Project work ---> number of hours (applicable to students working on ECE projects)
   hours / accomplishments / grades (ECE401 > 9, ECE402 > 10 hrs/wk lecture time should not be included)

5. Weekly Lectures (applicable to students registered for ECE401/402, only)
   - Requirement: may miss 1 (no penalty); 2 (5point penalty); more than two- no credit!
   - Email Hein if missing a lecture. Make up, approved by Hein, within three days
   - Prepare
   - Be on-time. 12:00 / 12:05 / 12:10 / 12:50 – 4:00 / additional class meetings
   - Respect
   - Don’t just listen, try to get the message; Similar topics
   - Ask questions
   - Job opportunities

6. Design Notebook
   - What should be in the Design Notebook? We will talk more about notebooks during the 2nd week meeting
   - Number all pages
   - Time sheet on the back: Date, Time (nearest ½ hour), Activity, Total #hours, not lecture
   - Front cover: take a sticker! Place it in the upper right corner of the front cover
   - First page:
     project title, group members and their contacts, supervisor, collaboration with (companies), donors
   - Write your name on the rim
   - Shipping sleeve
   - Notebook collection dates: weeks of 9/26, 10/24, and the end of semester
   - What to write and what not…
   - Notebooks will be collected by the Department: The Book of Ideas & Knowledge

7. Most important (general) dates
- 8/31 – picture day
- 9/14, 12 pm – Websites fully posted
- 9/16 – Preliminary Design Review w/EIR Mentor (form due date)
- 9/16, 5 pm – Project Plan due
- 9/**, 10/** - Collaboration w/ MKT364 (tbd)
- 10/* - Mid-semester (short) evaluations due
- 10/19 – Project Management Review meeting (50 min)
- 10/28, 5 pm – DTVC (Design, Test, Validation and Classification) document due
- 12/5 – Mid-project Review w/EIR Mentor (form due date)
- 12/7 and maybe 12/8, whole day in LSC – oral presentations (ppt slides)
- 12/9 – First semester report and evaluations due

8. **Mid-semester self and peer evaluations:**
Form to be filled-in and emailed to advisor; O. Notaros copied/or Canvas… (to be confirmed)

9. **End of semester deliverables:**
Oral presentation, written report (approved by the advisor before due date), Evaluation form (team, peer and self)

10. **Required evaluations and team meetings:**
- Meeting with O. Notaros mid-September (20-30 minutes)
- Preliminary Design Review (PDR) w/EIR mentor / Intro Meeting w/EIR Mentor mid-September
- Preliminary Project Plan Review
- Project Management Review (PMR) meeting with an engineer in mid-October (50 minutes)
- Meeting with Keysight engineer to discuss DTVC document mid-November (20 minutes – to be confirmed)
- Mid-Project Review w/EIR Mentor before oral presentations
- Oral presentations

11. **Budget**
- No department commitment at this time – talk to advising Faculty; more info next week
- Keep the receipts!
  - Reimbursement procedure – see Alauna Sutton in the ECE office Alauna.Sutton@colostate.edu
  - No bidding; eBay only “Buy It Now” option’; ask prof or grad students in the research lab
  - Beg for donations or educational discounts
  - Strict rules for purchasing computers, monitors, …
- Consider finding a sponsor!

12. **Mini grants / Awards**

13. **Grading**
- 60-70% project supervisor
- Around 30% head of senior design
- 10% peer evaluation

14. **Be careful of the deadlines**
15. **Team Leader**
16. **Project Plan**

17. **Questions?**
- B111 - ECE Student Projects Lab (24/7 access will be granted starting next week)
- B9
  - Lab procedures may be updated over the next couple of weeks!
- EIR schedule and revised volunteer list should be posted by the end of next week
- On-campus EIR will commence after Labor Day. As of now, plan is to schedule EiRs one day per week (which day?)
- Contacting EIRs: EIR directory file and contact info on Canvas

All submitted documents must have the same formatting: font size 10 or 11, Times New Roman or similar, single spacing, 1” margins on all sides, justified (straight edges on both left and right sides).

B111 Lab Team:
- Members: Isaac, Jonah and ?
- Rules / use of equipment?
- Workshops – dates, days, times

PCB design workshop, from “scratch”

Interest in other workshops?

Introduction of the ECE Outreach Team
- Members: Brandon, Bethany and Burak
- They may reach-out to you…
- Help w/ workshops: website design, Arduino, RaspbPi – email Hein (?)
- Join Outreach?

HKN - ?

Hein - ?

Need to meet with: …
B111 – ECE Student Projects Lab has (from front to back)
- EIR area (with limited office supplies)
- Seating set
- Kitchen area (microwave, coffee maker, two fridges, water heater and other electrical conveniences); last year students have started the take-one-leave-one donations food supply
- 3+3 lab benches with desktop computers and full test equipment setup (similar to the old C105/C107)
- Free area, stocked with circuit components, switches, sensors, stripped wire and internal power supplies - all donated and available for students to take/use for their projects (please use common sense when taking and always ask if not sure)
- Creation area with five 3D printers, 2 CNC machines, reflow oven, soldering stations with IR preheaters, heat guns, tabletop drill and tool chest stocked with tools (please return where found!), 3D scanner, trinoculars, coil winder; and 150W laser cutter…
- Four cubicles (meeting rooms)
- Multiple drawers and shelf space for teams to store their projects. There is no option to lock your supplies. You may claim any storage space labeled as “AVAILABLE” – just flip the sign and write your project name.

Space in the lab is very limited, since we expect almost 100 senior design and close to 30 OOP and VIP students working on more than 40 projects to claim their space in this lab. Therefore we kindly ask that students work in supervisor's lab, if at all possible, especially projects originated/proposed by CSU professors.

1. Respect your and other projects – **keep the door closed at all times!**

2. **24/7 access** will be granted to
   - ECE senior design students
   - BME, CBE and ME students working on ECE senior design projects
   - Independent Study students working on ECE senior design projects, regardless of their major
   - OOP students (Sec.1 and Sec.2)

3. B111 should be used for senior design-related work. Work related to other courses is acceptable, as long as there is enough space for those doing project work

4. Responsible consummation of food and beverage is allowed, as long as food and beverage containers
   - Are not kept on any benches with computers and test equipment
   - Are not kept in the Creation Lab area (with prototyping equipment and tools) or Soldering Area
   - Are disposed in the appropriate containers, and not left on benches. Please throw “smelly food” containers outside.

Consider this rule as a **huge** favor and privilege that may be **terminated** at any time if students do not follow rules.

Email questions, comments and suggestions to Olivera or ECE SrDesLab team!  
[EMAIL]