

Design Mixer for Multi-Disciplinary Teams

Through GT4823 and Special Problems

Objective for today

- Learn about how to get course credit for participating on a capstone design team (two mechanisms)
 - GT4823 for Capstone students
 - Syllabus & Schedule
 - Deliverables, grading, etc.
 - How to form teams
 - How to pick a project
 - Special Problems Courses for Non-capstone students
- NOT necessarily form teams
- NOT necessarily identify a project
- Next steps:
 - Register for a class
 - School specific Capstone Design section of GT4823 if you are a senior in ME, BME, MSE or ECE
 - Special problems course, ME4903 if you are not any of the above
 - Check <http://projects.gatech.edu> for new projects or upload your idea

What is Capstone Design all about?

Teams apply a systematic design process to real multidisciplinary problems.

A team structure is used to design a solution that performs the functions established by a project description.

- Course Syllabus, Schedule, Deliverables, etc. will be posted here: capstone.gatech.edu

Goals for Capstone Design

1. Invent/design something useful
 2. Apply your analytical knowledge to design it
 3. Build it, test it (physically & virtually)
 4. Document everything (lab notebooks, reports, presentations)
 5. Demonstrate it at the Design Expo
 6. Give to sponsor for use or patent it and start company
- CREATIVITY
ANALYTICAL SKILLS
HANDS-ON

Capstone Design Expo



Spring 2015

5000 attendees

1,050 students

197 teams

11 schools

\$13,000 in prizes

200 industry and alum judges

40 companies recruiting

Free food & T-Shirt!

- Free for anyone to attend!
- Check out the list of current and past projects here:
<http://expo.gatech.edu/>

**Spring 2017 Expo on
Tuesday April 25,
4:30 – 8:00 pm
McCamish Pavillion**

Why GT4823?

- Cool “real-world” projects
- Greater chance of winning at the expo
- Employers are looking for cross-disciplinary collaborative skills

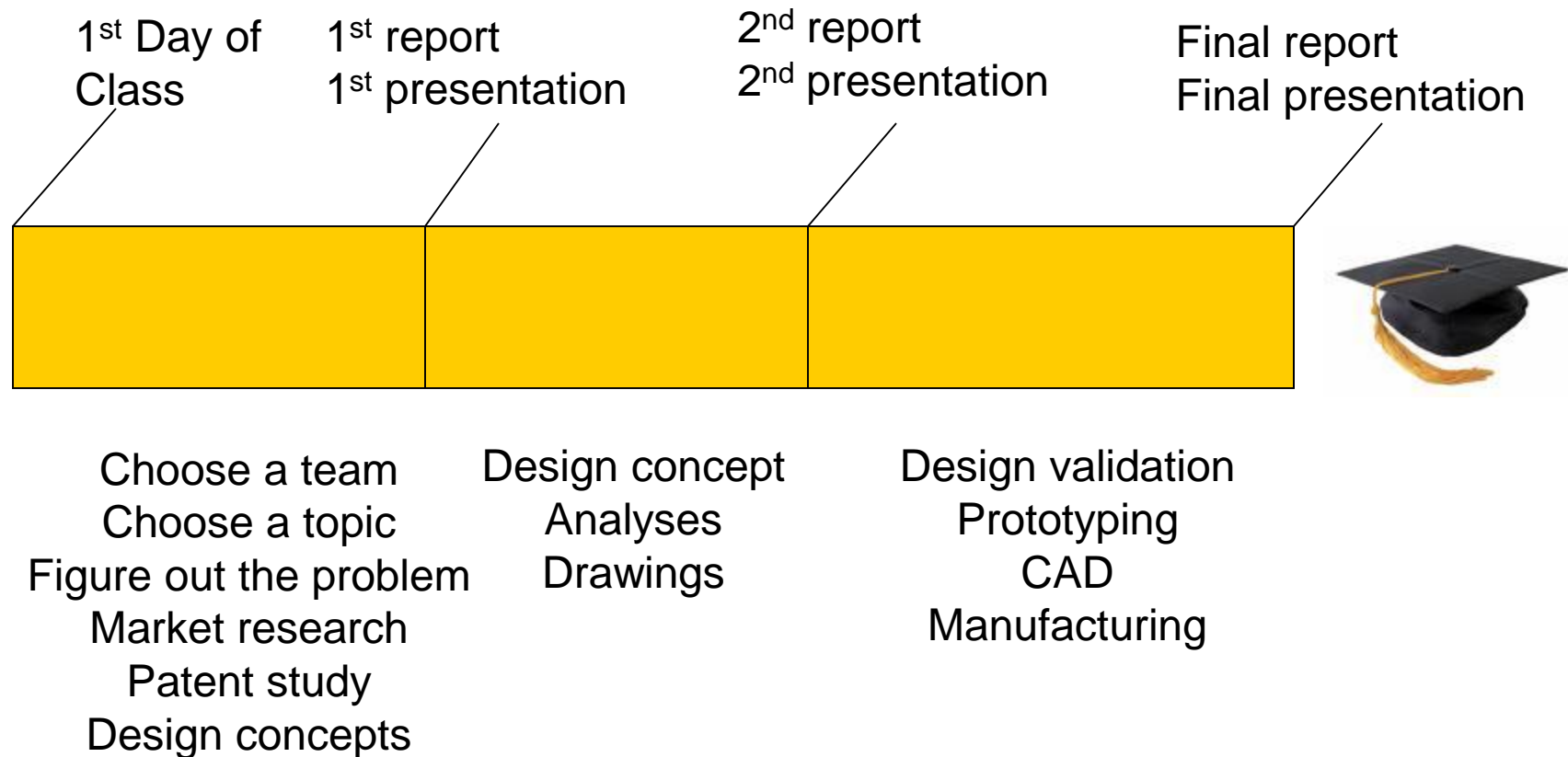
GT4823 Lectures

- **Different Schools have different lecture requirements**
 - GT4823 – ME and MSE has lectures on every T/Th from 3:05pm – 3:55pm
 - GT4823 – BME has lectures on every Tue similar to BMED 4602
 - GT4823 – ECE lectures similar to ECE 4012
 - ME4182 – ECE for ECE students have to attend GT4823 – ME lectures

GT4823 Studio meetings

- Common required studio times are typically on Wednesdays 12-3pm. The other listed time on OSCAR/Buzzport is for you to work within your teams
- Studios will be scheduled on T/Th – 12-2:45pm
- Meet with your primary instructor at least once per week for 30 – 180 minutes during the scheduled studio times
- Coordinate with your primary instructor for weekly mentorship, presenting deliverables, grading etc.

GT4823 Timeline



Special Problems Course Credit

- A route for non-capstone students to participate in capstone design teams
- Identify a design project of interest
 - Projects.gatech.edu (final team decisions made end of first week of semester, see below First Week of Classes)
 - Student Mixers (mid-term, beginning of semester)
 - Social Contacts
- Each Design Project / Team has a faculty advisor
- Request permit for Special Problems Course credit from the faculty advisor for the design project
- Special Problems Course credit in the 'home' school for the project
 - 1 - 3 credit hours available depending on the project and individual student effort

Teams Formed During First Week of Class

- All students need to finalize the project selection process by the end of the first week of classes
- Some important dates:
 - Sponsors pitch selected projects during the first lecture (22nd August) of GT4823 in IC #103
 - Students bid for projects on projects.gatech.edu by Friday of first week
 - Projects awarded to teams on Monday, second week of classes

How to form teams?

- Team sizes are 4 – 6 students per team
- At least one team member from outside of your school to qualify for a GT4823 team
- When?
 - Find team members today
OR
 - At the beginning of semester mixer immediately after the first GT4823 lecture
OR
 - Through projects.gatech.edu

Projects types

- Industrial (big and small)
 - Teams bid for the projects on <http://projects.gatech.edu/>
- Faculty Research Lab
 - Teams bid for the projects on <http://projects.gatech.edu/>
- Your own crazy idea!
 - Submit your project on <http://projects.gatech.edu/>

Projects.gatech.edu (Demo)

- How to login?
- How to submit a project?
- How to form a team?
- How to bid for a project?

Takeaways/Reminders

1. Register for GT4823-<SCHOOL> or Special Problems through the projects 'home school'
2. Check <http://projects.gatech.edu/>
 - Learn about projects and find team members with similar interests
3. Attend the first GT4823 Tuesday's lecture (22nd August, 2017), the projects' pitch session at 3:05pm in IC #103
4. Visit the Expo on 25th April at 4:30pm in McCamish Pavilion

Pitch your project

- Come on stage or stand where you are seated to talk about your project
- During the mixer session, write the title of your project on a flipchart and paste in on the designated wall (and stand there for others to come find you).