Welcome! We are very Happy to host you

Please mute your microphones and turn off your cameras

Presentation will start in few minutes

You may ask Questions in chat

... or at the end of the session by raising your hand
Welcome!

Professor Assimina Pelegri
MAE Undergraduate Director

Professor Xi Gu
Course Coordinator
Approaching Senior Design
What to Expect

Junior Class Info Session

650:467/468 - Design and Manufacturing I & II

650:487/488 – Aerospace Engineering Project I & II
Senior Design Projects at Rutgers
Senior Design...

- Relevant and Impactful
  - Prepare to innovate transformative solutions that make the world a better place

- A Path to Professional Success
  - Senior Designs are part of your “portfolio”
  - Videos, presentations and elevator pitch
Prerequisites

- 650:312 Fluids
- 650:342 Design of mechanical Components (prereq: 291, 388)
- 650:350 MAE Measurements
- 60:351 Thermodynamics
Registration

Two step registration

Starting next week

• ME students (650) register in 650:467
• AE students (021) register in 650:487

Starting May 1st

• Forming of groups
• Formed groups will be given SP# to register to specific sections
• The process will continue until August
Groups

- 650:467 ME
  Can have only mechanical engineering students
- 650:487 AE
  Can have aerospace students and one or 2 mechanical (priority of the groups forming goes to aerospace)
Projects

Projects may be offered

- Professors
- Companies
  
  professor will indicate to you if your project is industry supported

- Groups
  
  you have to solicit a professor to work with you
Where can I find a project?

https://mae.rutgers.edu/capstone-design-project

Will be Posted by May 15th
### Student Expertise

<table>
<thead>
<tr>
<th>Student Expertise</th>
<th>None</th>
<th>Beginner</th>
<th>Intermediate</th>
<th>Serious Hobbyist</th>
<th>Professional</th>
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<tbody>
<tr>
<td>Design</td>
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<td>Analysis</td>
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<td>Hand Tools</td>
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<td>Machining (traditional)</td>
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<td>CNC Machining</td>
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<td>3D Printing</td>
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<td>Yielding</td>
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<td>Wiring</td>
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<td>Simple analog ...</td>
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<td>Microcontroller...</td>
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<td>Bonding</td>
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<td>Processing (i.e....)</td>
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## Software Expertise

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<td>Solid Works</td>
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<td>Other CAD pack...</td>
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<td>Siemens NX</td>
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<td>Machine vision ...</td>
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Timeline

Phase I
Registration

Apr 2021
Info Session

Project Release

April - May 2021

Group Forming

Jul 2021

Advisor/Group Selection

Aug 2021
End Registration Phase II

1st Semester

Dec 2021
Project Design Presentation

2nd Semester

Jan 2022
Project Design Pitch

May 2022
Capstone Design Expo

Phase I Registration

Phase II Registration

Advisory/Group Selection

End Registration Phase II

Project Design Presentation

Project Design Pitch

Capstone Design Expo

Timeline Diagram
• Useful Links!

https://mae.rutgers.edu/flipbook/ughandbook/mobile/

https://mae.rutgers.edu/capstone-design-project

https://mae.rutgers.edu/flipbook/dm20/mobile/
QUESTIONS?