Welcome back

Thank you for a successful and (mostly) healthy Fall semester!

Cynthia Cartegna drop-in office hours:  
Mon 3:30-4:30 pm  
https://rutgers.webex.com/meet/ccartegn

Professor Shan drop-in office hours  
Mon & Wed 4:30-5:30 pm  
https://rutgers.webex.com/meet/jshan

Today, we will discuss:

1. Update on student achievements
2. Update on classes and online teaching
3. Return to research process
4. Deadlines & requirements for graduation
5. Mechanical Engineering Graduate Students Association (MEGA)
World-Class Faculty & Students

Selected recent student awards

• Peter Balogh
  – 2019 Andreas Acrivos Doctoral Dissertation Award in Fluid Dynamics from the American Physical Society.
  – "For the development of a high-fidelity, versatile numerical methodology to simulate flow of deformable blood cells in dense suspension through highly complex geometries, and for providing insights to the physics of blood flow in physiologically realistic microvascular capillary networks."

• Semih Cetindag
  – 2019 Best Presentation Award, Materials Research Society Fall Meeting
  – *Small* cover article

Selected recent faculty awards

• Xiaoli Bai
  – 2019 NASA Young Investigator Award
  – 2016 Air Force Young Investigator Award

• Liping Liu
  – 2015 American Society of Mechanical Engineers Best Paper Melville Medal
  – 2015 Society of Engineering Sciences Young Investigator Medal

• Aaron Mazzeo
  – 2016 NSF CAREER award
  – 2014 A. Walter Tyson Young Investigator Award (SoE)
Online teaching

Courses will be online for Spring and Summer 2021
  ▪ Synchronous if at all possible
  ▪ No P/NC option

Expect to be back in classroom in Fall 2021
  ▪ Many courses will have converged or asynchronous online option
Return to research

Graduate students who need to be on campus for research can be approved to return

- Request initiated by your research advisor
- Process for approval includes training, regular testing, social distancing in lab

Remember, we are responsible for each other’s health!
General Degree Requirements

Master of Science (MS)
- 24 **course credits** + 6 research credits
- Up to 2 courses from outside department, maximum of 1 C
- Thesis and Defense

Master of Engineering (MEng)
- 30 **course credits**
- Up to 2 courses from outside department, maximum of 1 C
- Report & Presentation

Doctor of Philosophy (Ph.D.)
- 42 **course credits** + 24 research credits + 6 credits of research and/or courses
- (Up to 4 courses from outside department, maximum of 2 Cs)
- At least 1 course from 4 of 5 areas: Design & Manufacturing, Dynamics & Control, Fluids, Solids, Thermal Sciences
- Qualifying exam (usually taken at beginning of 2\textsuperscript{nd} year)
- PhD proposal (done within 1 year of passing QE)
- Dissertation and Defense
MEng students: will need to present their project the week of March 22, 2021. Additional information will be forthcoming.

All paperwork due to the Graduate School April 1, 2021 for a May 2021 degree.
MS and PhD students: submit your thesis to your committee by March 8, 2021 giving them 2 weeks to review and 1 week for public announcement.. Also, PhD students need to submit to me the name and address of their outside committee member for the graduate school as soon as a selection has been made.

All paperwork due to the Graduate School April 1, 2021 for a May 2021 degree
Important Forms

International Students Forms
Reduced Credit
CPT
OPT
Other SGS forms:
https://gsnb.rutgers.edu/resources/graduate-student-forms
MEGA
Mechanical Engineering Graduate Association
Mechanical Engineering Graduate Students Association (MEGA)

Jan 20th, 2021
Mission Statement

• To improve the lives of the graduate students of the mechanical engineering department by organizing events, career development advice and acting as a point of contact between the students and the faculty.

• **Board members:**
  • Emran Lallow - President
  • Hongxiang Cao - Vice President
  • Mohit Agarwal – Treasurer/ Secretary
  • Luis Miranda- Social Chair
  • Rick Castellano- Former President
• **Office improvements:**
  – Printers in D150 & D115
  – TA Office hours meetings moved outside of D115 suite*

• **Department events:**
  – Coffee and Tea: Participating in organizing the event
    • Dr. Benaroya, Dr. Bilgen, Ramez Kiriakos, Erdi Kurtyigit
  – MAE Movie Night

• **Sports:**
  – Ping Pong tournament (MAE vs. BME), cancelled 😞
  – Chess tournaments
  – Bowling night
  – Intramural volleyball

• **Qualification Exam sessions!!**
OFFICE IMPROVEMENTS

- Printers in D115 & D150
  - Purchased, installed, and ready to use!
  - Contact Marko Mehalic (D115) or Arastuo Pournadali (D150)

- Office Hours
  - No more office hours in D115 suite! All moved to Week’s Hall
  - Calendar is set up online in coordination with the department*
COFFEE & TEA

• Social event: Thursdays 4 pm to 5 pm

• Efforts to move online?
SPORTS

- Ping Pong tournament (MAE vs. BME)
- Unfortunately got cancelled, but hopefully we can still do it at some point this year
SPORTS

• Previous Winners:

Chess tournaments, chess.com

April 24th
Amit Chawathe 1st
Dr. German Drazer 2nd
Ramez Kiriakos 3rd

May 9th
Dylan, Kovacevich 1st
Jeet Panchal 2nd
Ramez Kiriakos 3rd

June 27th
Dr. German Drazer 1st
Marko Mihalec 2nd
Ramez Kiriakos 3rd
Sports

- Bowling Night
- Intramural Volleyball
QUALIFICATION EXAM SESSIONS

- Resources are organized in a Google Drive folder
- 22 students signed up!

List of tutors:
- Paul Ferri
- Aliasghar Arab
- Hesam Sharghi
- Semih Cetindag
- Arastou Khamseh
- Ramez Kiriakos
- Harish Devaraj
- Erdi Kurtyigit
• Facebook MEGA chat
• MEGA emails
• MEGA Website
GET INVOLVED

• First Year Representative
• Web Master
• Office hours/Calendar Organizer

• Contact: Emran
  (eol4@scarletmail.rutgers.edu)
Summary

Have a great (and healthy) Spring semester!

Remember:

1. Office hours

Cynthia Cartegna drop-in office hours: Mon 3:30-4:30 pm
   https://rutgers.webex.com/meet/ccartegn

Professor Shan drop-in office hours
   Mon & Wed 4:30-5:30 pm
   https://rutgers.webex.com/meet/jshan

2. Deadlines & requirements for graduation

3. Check MAE & Graduate School websites for key information

4. Participate in Mechanical Engineering Graduate Students Association (MEGA)
Questions?

• Now?

• Later:
  – Prof. Shan’s office hours: M/W 4:30 – 5:30 PM at https://rutgers.webex.com/meet/jshan
  – Other times by appointment