Mechanical Engineering
Master's Student Orientation

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Academic Program Manager

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Today’s Orientation

- Greetings and Speakers
- Who We Are
- Advising Manual
  Quick Review
Greetings and Speakers

- Prof. Gretar Tryggvason, Department Head
gtryggv1@jhu.edu

- Steve Stich, MSE Library
sstich@jhu.edu

- Mark Savage, Life Design Lab
msavag16@jhu.edu

- MEGA Representatives
jhumega@gmail.com

Up next: who, what, and where...
Who We Are and What We Do

Our people:
- 30 professors / senior lecturers
- 13 administrative and research staff
- 28 postdocs
- 197 grad students
  - 66 MSE and 131 PhD
- 211 undergraduate students

Our goal:
- Provide outstanding education in a leading-edge research environment.
Where We Are - in “normal” times

Mechanical Engineering

- Admin Offices – Latrobe 223
- Prof. Rajat Mittal – Latrobe 126
- Mike Bernard – Latrobe 230
- Kevin Adams – Latrobe 223

Classes – most in Latrobe, Maryland, Gilman, Hodson, and Krieger Halls.

WSE Manufacturing (Machine Shop) – Wyman Park Building

Up next: courses and requirements...
Required Introductory Courses

**EN.500.603 Academic Ethics**
- 20-minute online tutorial
- Students will be registered and notified when available.
- Must complete in first semester. Don’t wait!

**AS.360.624 Responsible Conduct of Research**
- Online course, about 2 hours.
- Anyone doing research must take course.
- One exception – NIH funded projects: take AS.360.625 in-person
- Must take before 4th semester.

**EN.500.601 Research Laboratory Safety**
- 8 online modules required, in-person class options.
- Must take modules before starting research

Opioid Awareness and Title IX Anti-Harassment (both online)
MSE Degree Requirements

Section A - 8 advisor-approved courses

• 2 must be applied math, numerical analysis, or computational
• Almost half must be 530.xxx or 535.xxx Mechanical Engineering
• Up to 3 from Engineering for Professionals in Fall 2020 only
• Up to 4 upper-undergrad level
• No independent research, graduate research, or special studies.

Section B – choose one

• 2 more courses
  (530.820 MSE All-Course - Graduate Research can be one)
• Master’s Essay
  (530.821 MSE Essay - Research and Writing or 530.822 MSE Essay – Co-Op)
MSE Degree “Things to Know”

Check your Advising Manual for...

- **Sec. 3.5** – selecting courses
- **Sec. 3.6** – suggested courses
- **Sec. 3.7** – registration and credits
- **Sec. 3.8** – EP courses, accepted grades, double-counting between degrees
- **Sec. 3.11** – Academic Performance
- **Sec. 3.13** – Switching to the Ph.D. program
Seminars / Teaching Assistants

Seminars

• 530.803/804 MechE Seminar
  • Mechanical Engineering Graduate Seminar – Thursday 3:00

• Optional Seminars
  • Mechanics and Materials – Monday 3:00
  • Computational Sensing and Robotics – Wednesday 12:00
  • Environmental and Applied Fluid Mechanics – Friday 3:00
  • Fluid Mechanics – Friday 4:00

Teaching Assistant

• Opportunity for grading, labs, office hours, lectures
• Paid positions at $18/hour
• International students have English Language requirements
If you have Academic Troubles

Don’t Wait!

• If you are struggling with any course homework or exams...
• If you are having trouble attending lectures...
• If you are experiencing any difficulties...

Ask for Help Early – it’s okay and welcomed!

• Talk to your Professor, Faculty Advisor, or Teaching Assistant.
• Allison Leventhal, Student Life Administrator – 410-516-2328 or aleventhal@jhu.edu
• Christine Kavanagh, Assistant Dean of Graduate Affairs – 410-516-5938 or ckav@jhu.edu
• Prof. Sri Sarma, Vice Dean – 410-516-3481 or ssarma2@jhu.edu.
Safety and Common Sense

Campus Safety and Security Tips

• Baltimore is a vibrant, exciting city... but it is a city.
• Plenty of campus police and security staff
• Secure your laptops and valuables
• Back up your work on separate systems or cloud
• Don’t leave items in your car in plain sight
• Use good judgment if walking at night

Hopkins Security

• General Info 410-516-4600
• Safety Escort 410-516-4600
• Emergency 410-516-7777 or 911
Computing

Get Started at http://it.jhu.edu

- E-mail
- Computer discounts
- Free anti-virus
- Wi-Fi
- Software
This’n’that...

In the back of your advising manuals...

- MEGA and GRO
- Join the ASME!
- Life outside class, on campus, and in Baltimore.
- Forms

Top 12 for Graduate Students –
http://me.jhu.edu/t12/top-12-graduate-students/

91 Things to Do in Baltimore... try 10 this year!
# Resources and Contacts

## Humans

- **Your Advisor**
  - Mike Bernard  
    - me-academic@jhu.edu  
    - 410-516-7154
  - Kevin Adams  
    - me-academic@jhu.edu  
    - 410-516-5930
  - Prof. Rajat Mittal  
    - mittal@jhu.edu  
    - 410-516-4069
  - Prof. Gretar Tryggvason  
    - gtryggv1@jhu.edu  
    - 410-516-6451

## Otherwise

- **MSE and Ph.D. Academic Advising Manuals**
- Johns Hopkins  
  - [http://www.jhu.edu](http://www.jhu.edu)
- Mechanical Engineering  
  - [http://www.me.jhu.edu](http://www.me.jhu.edu)
- Graduate Advising  
  - [http://me.jhu.edu/graduate-studies/academic-advising-graduate/](http://me.jhu.edu/graduate-studies/academic-advising-graduate/)
- Top 12  
  - [http://me.jhu.edu/t12/top-12-graduate-students/](http://me.jhu.edu/t12/top-12-graduate-students/)
Best of luck to you this year!

Questions?
Advising Manual Quiz Challenge!

We had just one entry....

Congratulations to our winner, Lukas Serlin!