Mechanical Engineering Graduate Student Orientation

August 27, 2022

Today’s Orientation

• Greetings and Speakers
• Who We Are
• Important Info
Who We Are and What We Do

Our people:
• 30 professors / senior lecturers
• 13 administrative and research staff
• 25 postdocs
• 242 grad students
  • 122 MSE and 120 PhD
• 234 undergraduate students

Our goal:
• Provide you an outstanding education in a leading-edge research environment.

Your Academic Program Staff

John Soos
Sr. Academic Program Coordinator

• Exam Scheduling
• Event Planning
• Teaching Assistant Hiring and Payroll
• Facilities Management
• E-mail List Management
• Records and Website Maintenance
• Graduation Certifications

Mike Bernard
Academic Program Manager

• Academic Advising
• Student Recruiting
• Graduate Application Management
• Student Payroll
• Course Scheduling
• Communications Oversight
• Statistical Reporting
COVID-19 Information

Online resources

• For Grad Students - https://covidinfo.jhu.edu/information-for-graduate-students/
• International Students - https://ois.jhu.edu/Immigration_and_Visas/Travel_Information/COVID-19_Immigration-Related_FAQs/

MEGA

Mechanical Engineering Graduate Student Association

• Your voice in Mechanical Engineering
• Advocates for issues and concerns
• Social events
• Athletic teams
• Dissertation Defense celebrations
• Visit https://me.jhu.edu/mega/ for info and calendar
Library

Milton S. Eisenhower Library

- On the Homewood Campus
- One of 9 Hopkins libraries
- We have our own librarian!

Resources
- Web – https://library.jhu.edu
- Librarian – Mr. Steve Stich – sstich@jhu.edu

Required Introductory Courses

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

AS.360.625 Responsible Conduct of Research
- In-person over a week.
- Anyone doing research must take course by their 4th semester.
- Offered all semesters and summer

(Maybe) EN.500.601 Research Laboratory Safety
- 8 online modules required; in-person class optional.
- Must take modules before starting research

Opioid Awareness, Effort Reporting, American English Pronunciation (for TA work), and Title IX Anti-Harassment – visit https://me.jhu.edu/education/graduate-studies/advising/for-new-graduate-students/
**MSE Degree Requirements**

Section A – A set of advisor-approved courses

- 6 courses, 3 credits or more each plus...
- Other courses totaling 6 credits – from Center for Leadership Education or other departments – 1.5-3 credits each
- 2 must be applied math, numerical analysis, or computational
- Almost half must be 530.xxx or 535.xxx Mechanical Engineering
- Up to 2 from Engineering for Professionals
- Up to 4 upper-undergrad level
- No independent research, graduate research, or special studies.

Section B – choose one

- 2 more courses - 530.823 MSE Graduate Research can be one
- Master’s Essay – 6 credits either 530.822 MSE Essay – Co-Op or 530.823 MSE Graduate Research

**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. 3.12 – Switching to the Ph.D. program
**PhD Degree Requirements**

**Mechanical Engineering**
- Pass the Departmental Qualifier Exam (DQE)
- Teaching Assistant – 2 courses
- Register for and pass EN.530.801 Graduate Research - every semester
- Register for and pass EN.530.803 MechE Graduate Seminar – first three years
- Maintain academic and research performance

**University**
- 2 semesters of “full-time” residency
- Pass the Graduate Board Oral (GBO) exam
- Submit and defend dissertation

**Things to Know**

Check your Advising Manual for...
- **Sec. 2.6** – Course Frequency
- **Sec. 3** – Requirements and Performance
- **Sec. 3** – DQE, GBO, Dissertation Defense
- **Sec. 5.1** – Annual Reviews, Seminars, Ethics
- **Sec. 8** – Financial Aid and Teaching Assistants
- **Sec. 10** – Purchasing and Reimbursements
- **Sec. 11** – Payroll
- **Sec. 12.1** – Lab Safety
More Things to Know – PhD Policies

Check Section 4 of the PhD Advising Manual for Policy Links...
• Time Off and Vacation
• Mentoring Commitments for Students and Advisors
• Graduate Residency and Registration
• Academic Policies
• Rights and Responsibilities
• Probation and Dismissal

Academic Advising – where to get help

• Your faculty advisor
• Graduate Academic Advising page - https://me.jhu.edu/education/graduate-studies/advising/
• Your advising manual
• Advising Week meetings – March/April and October/November
• Academic Program Manager Mike Bernard
**If you have Troubles**

Don’t Wait! If you...

...are struggling with course work or exams,
...have trouble attending lectures,
...have emotional or mental health struggles,
...have financial or living space problems,
...are not getting along with your roommates,
...feel overwhelmed:

Ask for Help Early – it’s okay!

Talk to your Professor, Faculty Advisor, or Teaching Assistant.

Allison Leventhal  
Student Life Administrator  
410-516-2328 or aleventhal@jhu.edu

Christine Kavanagh  
Associate Dean of Graduate Affairs  
410-516-5938 or ckav@jhu.edu

Dr. Annalisa Peterson  
Ombuds  
410-218-6669 or https://www.jhu.edu/ombuds-office/

**Career Services**

Career exploration  
Connections for jobs  
Info sessions for career preparation

**Life Design Lab – Masters**  
Mr. Mark Savage  
Life Design Educator  
msavag16@jhu.edu  
https://studentaffairs.jhu.edu/life-design/

**PHutures – PhD**  
Dr. Roshni Rao – Director  
rrao12@jhu.edu  
https://provost.jhu.edu/integrative-learning-and-life-design/life-design/phutures/

Mechanical Engineering “Careers and Life” - https://me.jhu.edu/education/careers-and-life/
Seminars / Teaching Assistants

Seminars
- EN.530.803 MechE Seminar – Thursday 3:00
- Other Seminars
  - EN.530.809 Mechanics and Materials – Friday 3:00
  - EN.620.745 Computational Sensing and Robotics – Wednesday 12:00
  - EN.500.602 Environmental and Applied Fluid Mechanics – Friday 3:00
  - EN.530.807 Fluid Mechanics – Friday 4:00

Teaching Assistant
- Opportunity for grading, labs, office hours, lectures
- Paid positions at equivalent of $19/hour
- International students have English Language requirements

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
- Zoom
- Microsoft Teams
- Software

Recreation Center

- Membership is free for all graduate students!
- Enjoy the pool, climbing wall, fitness center, weight room, basketball courts!
- Fitness training, swim lessons, and other programs available
- Intramural and club sports leagues and Sports Clubs

https://studentaffairs.jhu.edu/recreation/
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 –
https://me.jhu.edu/education/graduate-studies/current-grad-students/

91 Things to Do in Baltimore... try 10 this year!

Resources and Contacts

Humans
- Your Faculty Advisor
- Mike Bernard me-academic@jhu.edu
- John Soos me-academic@jhu.edu
- Prof. Rajat Mittal mittal@jhu.edu
- Prof. Gretar Tryggvason gtryggv1@jhu.edu

Otherwise
- MSE and Ph.D. Academic Advising Manuals
- Johns Hopkins http://www.jhu.edu
- Mechanical Engineering http://www.me.jhu.edu
- Graduate Advising https://me.jhu.edu/education/graduate-studies/advising/
- Top 12 for Grad Students https://me.jhu.edu/education/graduate-studies/current-grad-students/
Best of luck to you this year!

Questions?