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.

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Your Academic Program Staff

John Soos

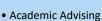
Sr. Academic Program Coordinator



- 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/
- Whiting School https://engineering.jhu.edu/covid-19/wse-homewood-graduate-student-covid-19-faq/
- International Students https://ois.jhu.edu/Immigration_and_Visas/Travel_Information/COVID-19_Immigration-Related_FAQs/

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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

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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

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MSE Degree "Things to Know"



M.S.E. Graduate Student Advising Manual

2022-2023

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

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Things to Know



Mechani Engineeri Ph.D.

Graduate Student Advising Manual

2022-2023

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



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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/

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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/lifedesign/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

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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

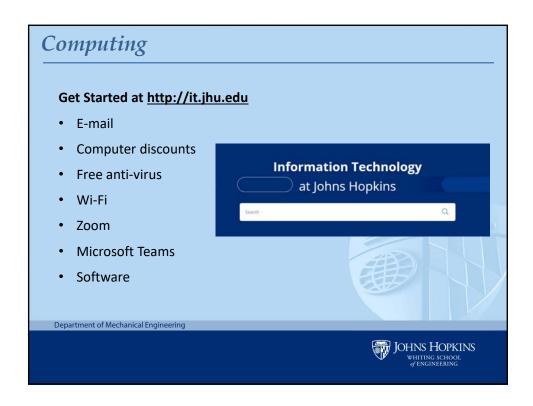
General Info 410-516-4600

Safety Escort 410-516-4600

• Emergency 410-516-7777 or 911









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 Baltim

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

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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/



