Mechanical Engineering
Master’s Student Orientation

January 2022

Today’s Orientation

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

Our people:
• 30 professors / senior lecturers
• 11 administrative and research staff
• 25 postdocs
• 236 grad students
  • 92 MSE and 144 PhD
• 216 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.360.624 Responsible Conduct of Research
- Online course, about 2 hours.
- All master’s students must take course.
- One exception – NIH funded projects: take AS.360.625 in-person

(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 - 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 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
  (530.820 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)

Academic Advising – where to get help

• Your faculty advisor
• Graduate Academic Advising page - https://me.jhu.edu/education/graduate-studies/advising/
• Your advising manual
• Checkout sheet
• Advising Week meetings – March/April and October/November
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

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.
Seminars / Teaching Assistants

Seminars – 1 credit – **optional** for master’s students
- 530.803 MechE Seminar
  - Mechanical Engineering Graduate Seminar – Thursday 3:00 – if enrollment, you must attend 12 seminars to get a Pass grade!
- Other 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 equivalent of $19/hour
- International students have English Language requirements

Career Services

Life Design Laboratory
- Career services and exploration
- Connections for jobs
- Information sessions on career preparation

Resources
- Mr. Mark Savage, Life Design Educator – msavag16@jhu.edu
- Life Design Lab - [https://studentaffairs.jhu.edu/life-design/](https://studentaffairs.jhu.edu/life-design/)
- Mechanical Engineering “Careers and Life” - [https://me.jhu.edu/education/careers-and-life/](https://me.jhu.edu/education/careers-and-life/)
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
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 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 https://me.jhu.edu/education/graduate-studies/current-grad-students/
Best of luck to you!

Questions?