

Mechanical Engineering Master's Student Orientation

January 2022



Today's Orientation



- Greetings
- Who We Are
- Important Info



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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:

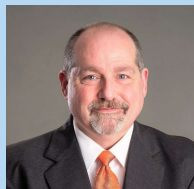
- Provide you an outstanding education in a leading-edge research environment.

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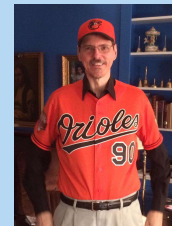
Your Academic Program Staff

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

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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

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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 – stich@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.360.624 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/>

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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)

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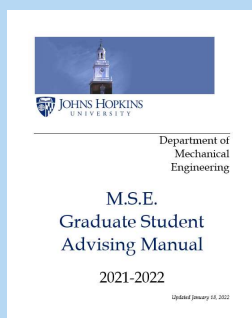
Academic Advising – where to get help

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

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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

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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.

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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

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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/>
- Mechanical Engineering “Careers and Life” - <https://me.jhu.edu/education/careers-and-life/>

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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

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Computing

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

- E-mail
- Computer discounts
- Free anti-virus
- Wi-Fi
- Zoom
- Microsoft Teams
- Software



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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!**



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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/>

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Best of luck to you!



Questions?

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