Mechanical Engineering Graduate Student Orientation



August 26, 2023



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
- 23 postdocs
- 246 grad students
 - 98 MSE and 148 PhD
- 238 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
- PhD 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/





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



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/

Research Laboratory Safety

- 8 online modules <u>required</u>; in-person EN.500.601 Research Laboratory Safety class <u>optional</u>.
- Must take modules before starting any kind of research.



MSE Degree Requirements

Section A – A set of advisor-approved courses – 24 credits or more

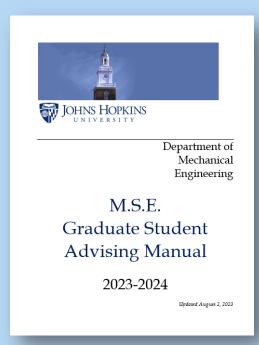
- 6 courses, each 3 credits or more
- Other courses totaling 6 credits from Center for Leadership Education or other departments – 1.5-3 credits each
- Also...
 - 2 must be applied math, numerical analysis, or computational
 - Almost half must be 530.xxx or 535.xxx Mechanical Engineering
 - Up to 2 from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

Section B – choose one option – 6 additional credits

- 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. 3.2** degree requirements
- **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. 3.10 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

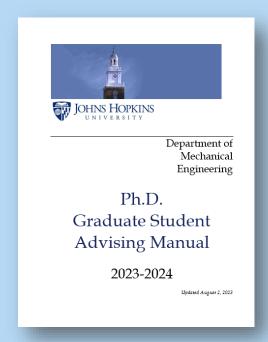
University

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





PhD Degree "Things to Know"



Check your Advising Manual for...

- **Sec. 2.6** Course Frequency
- **Sec. 3.1** Requirements and Performance
- Sec. 3-5 DQE, GBO, Dissertation Defense
- Sec. 9.1 Annual Reviews, Seminars, Ethics
- Sec. 12 Financial Aid and Teaching Assistants
- **Sec. 14** Purchasing and Reimbursements
- **Sec. 15** Payroll
- **Sec. 16.1** Lab Safety





More Things to Know - PhD Policies

Check Section 8 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 Staff Mike Bernard and John Soos

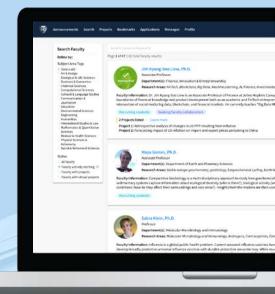


ForagerOne

University-wide marketplace for research opportunities and collaboration

- Find and connect with faculty mentors
- Recruit undergrads and other students across disciplines to support your projects
- Discover PhD/postdoc collaborators
- Get matched with part-time consulting opportunities with companies seeking subject matter experts

Get started by logging in with your JHED credentials at https://foragerone.com/auth/login and creating your profile.









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,

...have family concerns,

...feel overwhelmed:

Ask for Help Early – it's okay!

Talk to your **Professor**, **Faculty Advisor**, **Teaching Assistant**, or **Academic Staff**

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://imagine.jhu.edu/channels/life-design-lab/

PHutures - PhD

Dr. Roshni Rao – Director rrao12@jhu.edu



https://imagine.jhu.edu/channels/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...
- 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



Recreation Center

- Membership is free for all full-time 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/





Computing

Get Started at https://it.johnshopkins.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



Info for Graduate Students –

https://me.jhu.edu/education/graduate-studies/current-grad-

students/

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

Welcome to Baltimore! We compiled a list of all types of activities the area has to offer to help you

make the most of your stay away from home. We hope that you will have a great University experience and have fun exploring Baltimore. To get a free visitor's guide packed with great information go to www.baltimore.org and request a complimentary welcome packet.

91 Things to Do in Baltimore

GET CULTURED

- 1. Party down First Thursday at the Baltimore Museum of Art -www.artbma.org
- 2. Experience 55 centuries of art at the Walters Art Museum w.thewalters.org
- 3. Visit 1 Science Center www.n



Resources and Contacts

Humans

Your Faculty Advisor

Mike Bernard <u>me-academic@jhu.edu</u>

John Soos <u>me-academic@jhu.edu</u>

Prof. Tamer Zaki
 <u>t.zaki@jhu.edu</u>

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/

Info for Grad Students

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





Best of luck to you this year!





MEGA Mission

Interface between the graduate students, administration, and faculty of the Mechanical Engineering department and to act in the best interest of the graduate students.







The MEGA Executive Board



Gargi Sadalgekar Co-President



Shrey Jaiswal Co-President



Dimitri Lezcano *Vice President*



Sergio Machaca Treasurer



Naveed Riaziat
Co-Social Chair



Craig Almeida *Co-Social Chair*



Daniel Magnuson
Secretary



Intramural Sports

IM Leagues

Fall 2023

- Indoor Soccer
- Flag Football
- 3 v 3 Basketball
- Fantasy Teams

Sign Up Soon!





Personal and Professional Development

Mental Health Awareness

- Succulent Event
- First Year Q&A
- Professional Development
 - Seminars
 - Fellowship/PhD
 Application Consulting





Resources

- Allison Leventhal, Director of Engineering Student Support and Outreach
- Christine Kavanagh, Associate Vice Dean for Graduate Education and Lifelong Learning
- Annalisa Peterson, Ombuds for Doctoral and Postdoctoral Students, Fellows and Programs
- Counseling Center
- Teachers and Researchers Union (TRU)



Open Positions on the MEGA Board

- 1. First-Year Rep
- 2. Masters Student Rep
- 3. Co-Community Outreach Chair
- 4. Co-Community Outreach Chair
- 5. International Student Rep
- 6. Sports Chair
- 7. Diversity and Inclusion Chair
- 8. Social Media





Contact Us!

We are looking for representatives to fill our open positions!

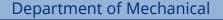
- 1. Bagel Fridays 10 am Latrobe Kitchen 3rd Floor
- 2. Sign up for IM League Sports
- 3. Top golf (Saturday, September 16th)
- 4. Bottom of MEGA Emails Anonymous Feedback Form and

Events Calendar

EMAIL: jhumega@gmail.com

Instagram: @mega_jhu







Events

Large Scale

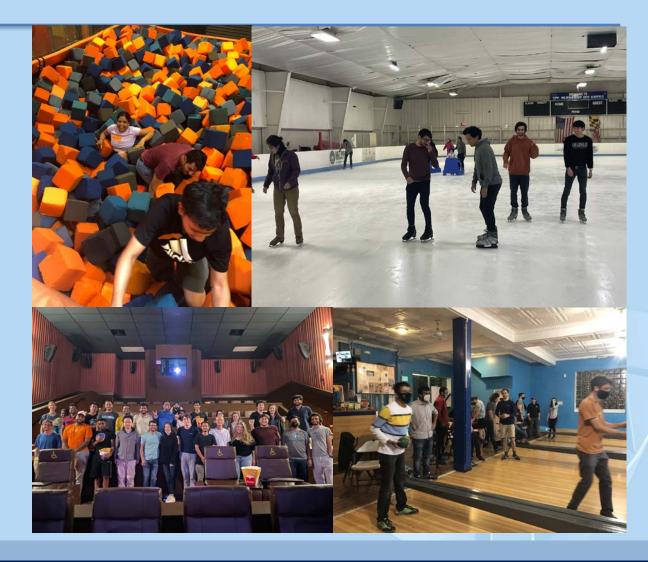
- Ice Skating
- Bowling
- Kayaking

Recurring

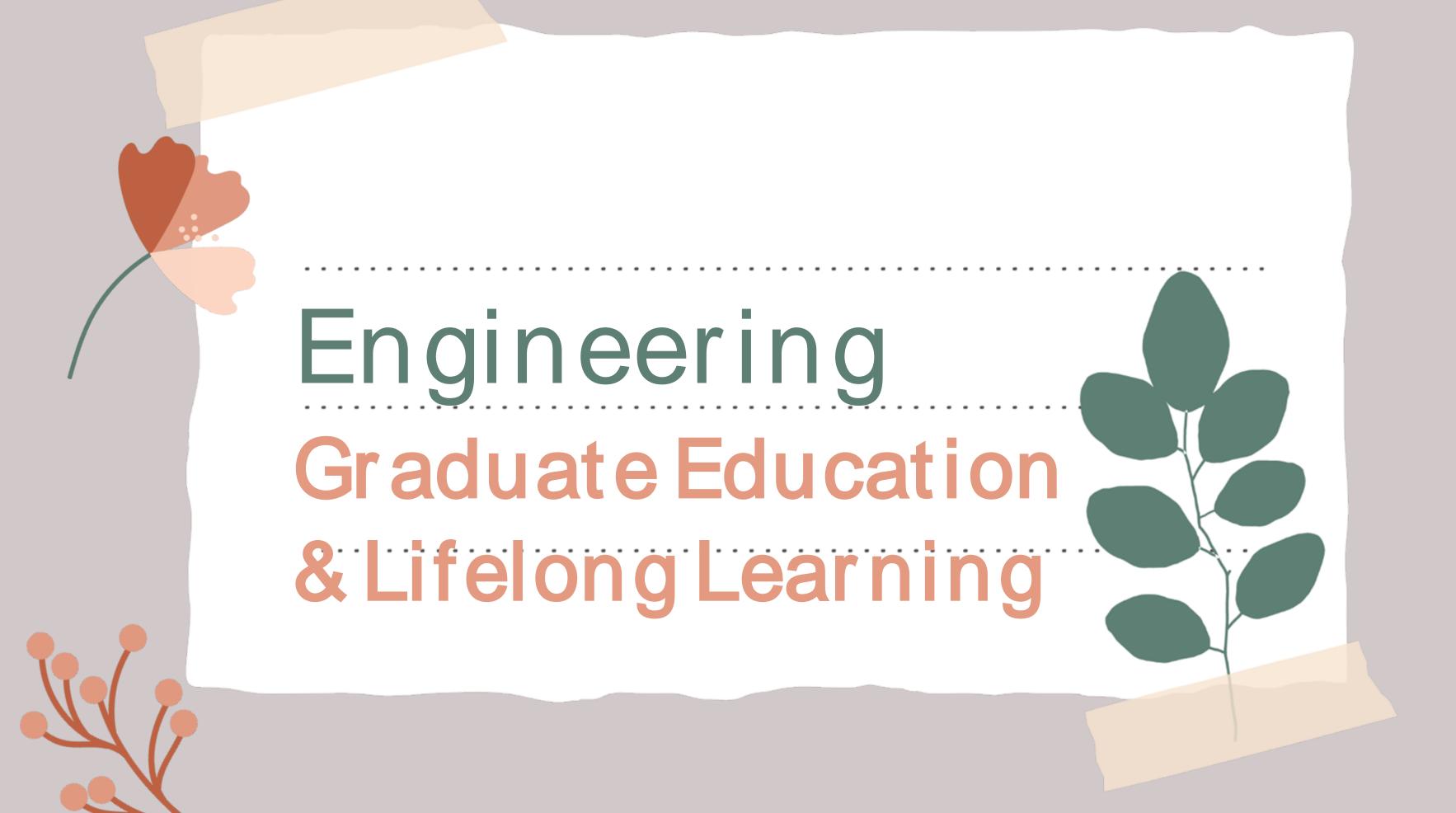
- Bagel Fridays
- Movie Nights
- BBQs

Cultural Celebrations

- Lunar New Year
- Diwali
 Department of Mechanical





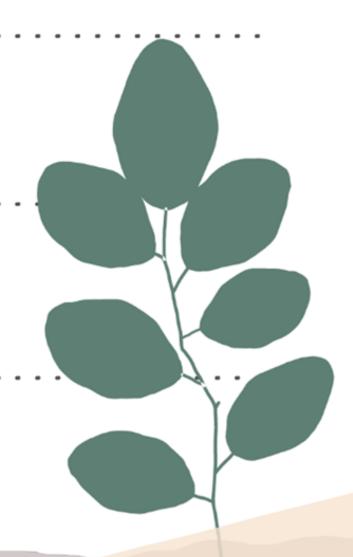


Megan Barrett Assistant Dean of Engineering Student Affairs

- Community Building
 - Graduate Representative Organization: https://studentaffairs.jhu.edu/gro
 - Women of Whiting: https://wow.students.jh.edu
 - Black Graduate Student Organization
 - Departmental Student Groups
- Life Design Professional Development
 - https://imagine.jhu.edu/channels/wse-aap/
 - Handshake
- Student Support and Advocacy (Chase)



Engineering Student Support & Advocacy



WhoWeAre

Allison Leventhal she/her



<u>aleventhal@jhu.edu</u> <u>www.bit.ly/aleventhal</u>

Chase Oatis they/them



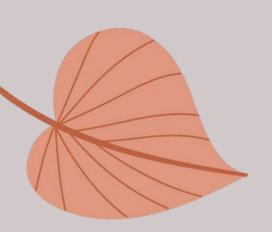
<u>coatis1@jhu.edu</u> www.bit.ly/coatis1



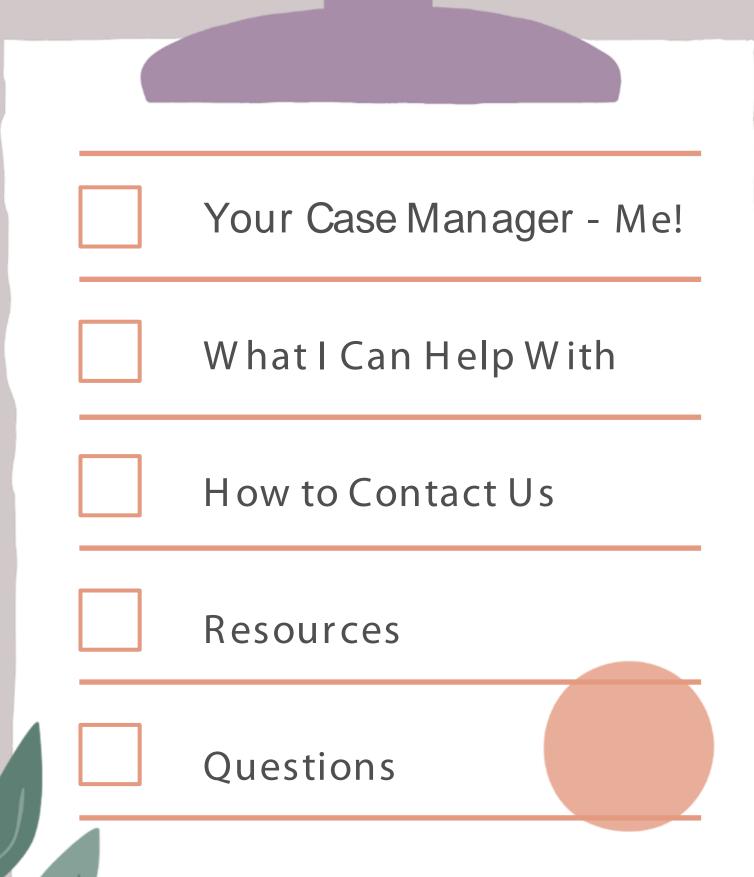
Hannah Nelson she/her



<u>hannahnelson@jhu.edu</u> <u>www.bit.ly/hannah_nelson</u>



Let's Chat about...

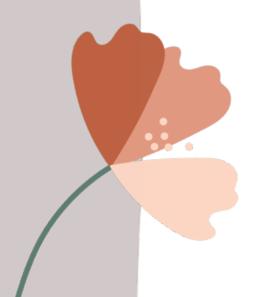


l am your Case Manager.

What does this mean?

- I work specifically with your department.
- I know the policies specific to your program.
- I know your academic staff and faculty.
- One Case Manager for you during your time at Hopkins.

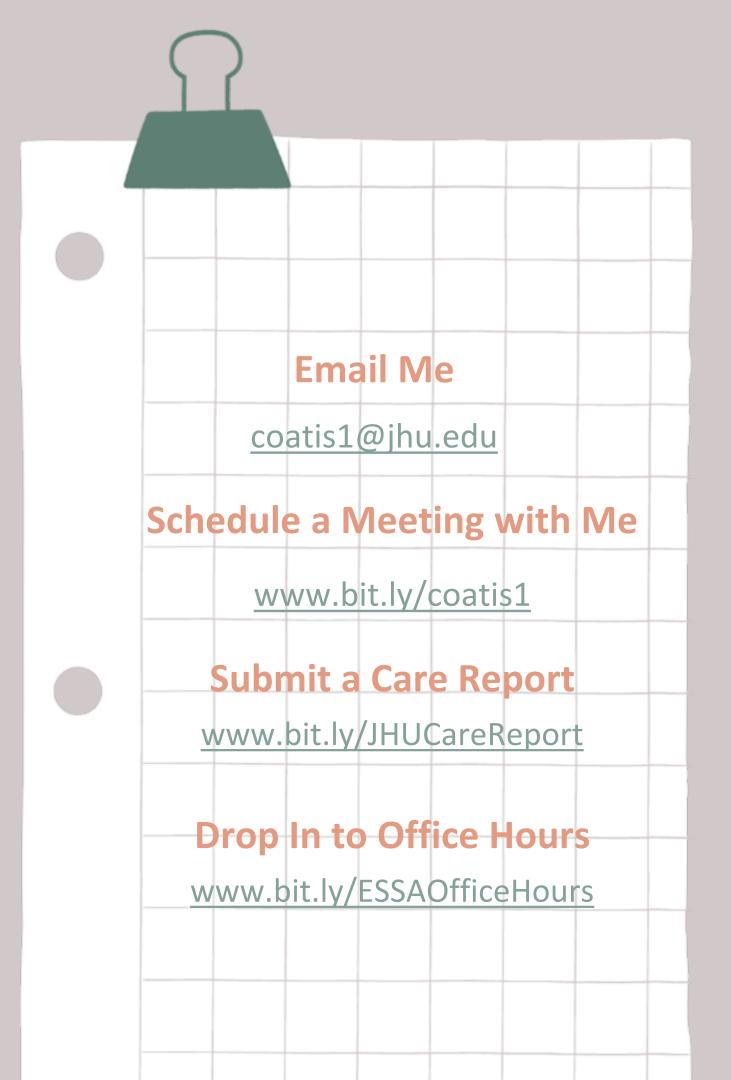
We help with...



- Mental Health
- Physical Health
- Family Emergencies
- Medical Emergencies
- Financial Concerns
- Leaves of Absence (personal, emergency, medical)
- Connection to Resources (on and off campus)
- Supporting through Academic Challenges

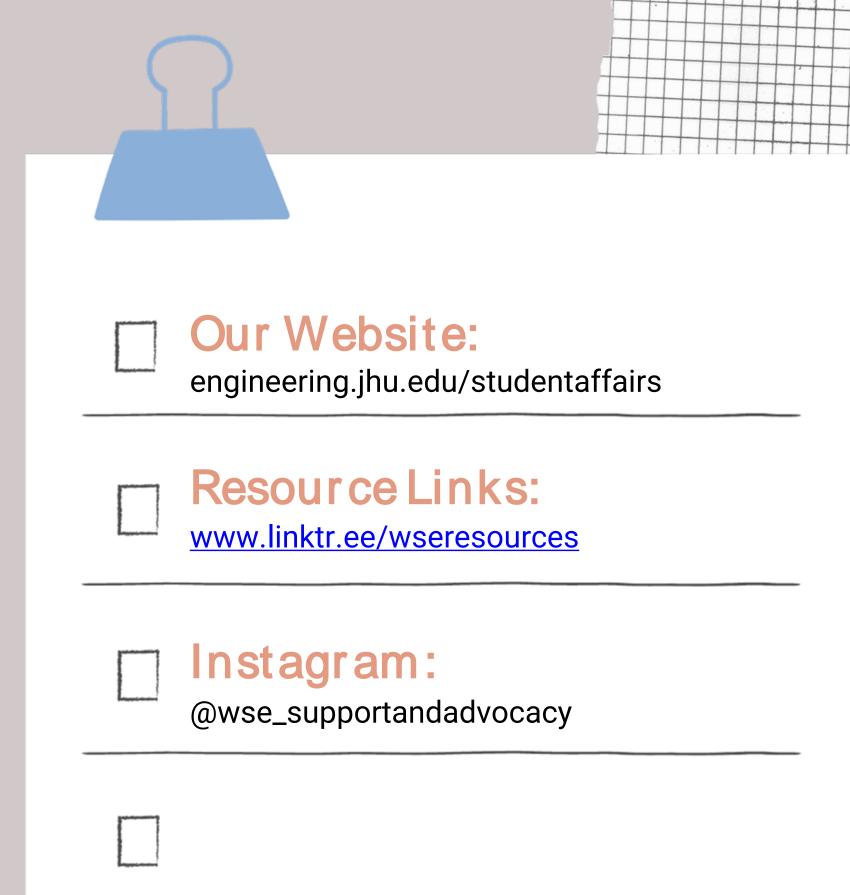


Need Help? Let me know...





Our Links





Resources



Student Health and Wellness Center

Counseling Center

Off-Campus Housing

Health Promotion and Wellbeing

Transportation
Services

Student Disability
Services

Food Pantry

Office of Institutional

Equity

Public Safety

Office of International
Services (OIS)

Behavioral Health Crisis
Support Team (BHCST)

TimelyCare

