



JOHNS HOPKINS  
UNIVERSITY

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Department of Electrical and Computer Engineering

# **Graduate Student Manual**

## **MSE Program**

**2024 - 2025**

(Updated: July 19, 2024)

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## 1. Welcome

Welcome to the Johns Hopkins University Electrical and Computer Engineering (ECE) Master of Science in Engineering (M.S.E.) program advising manual. We're excited to introduce you to this comprehensive resource designed to support you throughout your academic journey. Whether you're a new student navigating the intricacies of program requirements or a seasoned graduate embarking on your thesis or dissertation, this manual serves as your compass, providing invaluable guidance, policies, and procedures. Within these pages, you'll discover a wealth of information on course selection, research opportunities, milestones, and academic policies tailored specifically to our ECE graduate community. Our goal is to empower you with the knowledge and tools needed to chart a successful path towards your academic and professional goals. Welcome to the Johns Hopkins ECE family, where we're dedicated to your success and academic growth every step of the way.

This document is not phrased to professional legal standards. You will want to clarify any unclear issues with these Departmental professors and staff:

- Senior Academic Program Coordinator (M.S.E. and BS) – Malik Johnson
- Senior Academic Program Coordinator (Ph.D.) – Ashley Moriarty
- Director of Graduate Studies – Associate Professor, Mark Foster
- Your faculty advisor
- Department Head – Professor, Pablo Iglesias
- Administrator – Nicole Aaron

## 2. M.S.E. Degree Program Requirements

The requirements for the Master of Science in Engineering (M.S.E.) in Electrical and Computer Engineering, along with general information, are described here. Every graduate student in the Department of Electrical and Computer Engineering must follow a program approved by a faculty advisor in the department. The advisor assigned to the student upon admission may be changed, subject to the approval of the new advisor.

It is important to note that all applicants seeking admission to our graduate program leading to an M.S.E. degree must hold a bachelor's degree or its equivalent at the time of entry.

### 2.1 University and Whiting School Degree Requirements

Johns Hopkins University and Whiting School of Engineering (WSE) have degree requirements in addition to the Department's requirements. These include:

- Two semesters of full-time course registration, also called "residency". Note, this rule does not apply to students in the concurrent B.S./M.S.E. program or those who enter the M.S.E. program after two or fewer semesters following completion of a JHU undergraduate degree.
- Course registration every semester.
- Completion of responsible conduct of research and academic ethics courses.

Visit <https://e-catalogue.jhu.edu/arts-sciences/full-time-residential-programs/graduate-policies/academic-policies/#text> for information on school-wide requirements.

#### 2.1.1 Residency Requirement

Once students begin their graduate course of study toward a degree, they must complete a minimum of two consecutive semesters of registration as a full-time, resident graduate student on campus. To qualify as a resident student, the student must be present on campus and working toward fulfilling the requirements for the degree. Complete information is available at <https://homewoodgrad.jhu.edu/graduate-board/new-grad-board-residency-page/>

### 2.1.2 Responsible Conduct of Research Course

All M.S.E. students will be required to take the “Responsible Conduct of Research” course.

- M.S.E. students must complete the online training course (AS.360.624) before the end of their first semester of enrollment. <https://engineering.jhu.edu/research/resources-policies-forms/online-training-course-responsible-conduct-of-research/>
- M.S.E. students receiving payment from NIH Training Grants must take the in-person training course (AS.360.625).

Information is available at <http://engineering.jhu.edu/wse-research/resources-policies-forms/responsible-conduct-of-research>. Successful completion of this course must be verified before a student’s diploma is issued.

### 2.1.3 Graduate Orientation and Academic Ethics

As a graduate student, you will be automatically enrolled in the online tutorial Academic Ethics (EN.500.603), which teaches academic and ethical responsibilities. This approximately 30-minute tutorial must be completed in the first eight weeks of the student’s first semester. The Whiting School of Engineering will notify new students when the course is available, typically right after the Add period for that semester (fall/spring). Do not drop the course when you see it.

### 2.1.4 Course Registration and Credits

All Whiting School of Engineering graduate courses are assigned credit hours. Note that:

- To maintain full-time status, WSE graduate students must be enrolled in at least 9 credits each semester. Students enrolled in fewer than 9 credits per semester will not meet the full-time enrollment requirement, which may affect residency requirements for all and visa concerns for international students.
  - EN.520.895 ECE Departmental Seminar and other seminars – 1 credit
  - WSE courses, both undergraduate and graduate – 3 or 4 credits
  - EN.520.806 Master’s Research – 3-10 credits
  - Audited courses do NOT count as a grade or toward a full-time credit load.
  - A course is satisfactorily completed if a grade from A+ to C- or a “P” is obtained.
- Full-time MSE students are expected to take at least three, 3 credit courses for each of their first two semesters.
- All first year MSE students are required to register for EN.520.895 ECE Seminar in both Fall and Spring semesters.
- All graduate students on JHU payroll for any part of the summer should register for 9 credits of Summer Graduate Research (EN.520.803) each summer. See more information below in Section 2.2.5
- Visit the Whiting School’s Frequently Asked Questions page at <http://homewoodgrad.jhu.edu/academics/wse-graduate-credit-hours/> for more information.

### 2.2.5 EN.520.803 Graduate Research – Summer – annual enrollment required

The course EN.520.803 Graduate Research – Summer is used as a non-graded, no-assignment placeholder “course” that has no function other than to recognize students as full-time, enrolled graduate students. This is necessary to fulfill a US federal requirement that students be enrolled full-time, year-round to be exempt from “FICA” or Social Security Tax from student salaries.

M.S.E. students on JHU payroll for any part of the summer must register for 9 credits in their Research Advisors section. There is no tuition charge for this course. Each advisor will submit Pass grades at the end of the summer term, which will be reflected in student transcripts. FICA Tax will be withheld from pay of any Ph.D. student who does not enroll for this course.

## 2.2.6 Interdivisional Course Registration

Students may wish to register in another division, like the Engineering for Professionals program or in any of Hopkins's eight other schools. Such students should complete the Interdivisional Registration (IDR) Form. Visit <https://studentaffairs.jhu.edu/registrar/students/interdivisional-registration/> for information and a link to the IDR form. Once completed, the form can be submitted via SEAM's online form here: <https://support.sis.jhu.edu/case-home>.

## 2.2.7 Engineering for Professionals courses

Many interesting and relevant online Electrical and Computer Engineering and other engineering courses are available via our Engineering for Professionals program.

- ~~Students can count up to 4 EP courses if they are doing 10 courses MSE, but the remaining 6 courses would have to be from the ECE department EN.520.6XX. If the student chooses the 8 courses + research MSE they can count up to 3 EP courses with the remaining 5 would have to be from the ECE department EN.520.6XX. Up to two Engineering for Professionals courses can be counted toward the master's degree.~~
- Visit the EP Courses page to find available courses. [https://ep.jhu.edu/courses/?query=&filters%5Bsemester%5D=&filters%5Bprimary\\_program%5D=electrical-and-computer-engineering&filters%5Blocation%5D=&filters%5Bmode%5D=](https://ep.jhu.edu/courses/?query=&filters%5Bsemester%5D=&filters%5Bprimary_program%5D=electrical-and-computer-engineering&filters%5Blocation%5D=&filters%5Bmode%5D=)
- Please discuss proposed Engineering for Professionals courses with your faculty advisor to confirm that they would qualify for your degree.
- The course registration process is different from the standard registration in the Student Information System (SIS). You must complete the Interdivisional Course Registration to register for an EP course.

## 2.2. ECE Department Requirements for the M.S.E.

The requirements for the M.S.E. degree in the Electrical and Computer Engineering (ECE) department are as follows:

1. Satisfactory completion of eight one-semester 3-4 credit graduate courses (xxx.400 - xxx.799) approved by the advisor.
    - a) At least five of these courses must come from the full-time ECE department (EN.520.XXX).
    - b) Courses that are primarily Independent Study or Dissertation Research may not count as part of these five courses. These courses include 520.800- Independent Study, 520.802-Dissertation Research, and 520.806-Master's Research. Students may count one of these primary research courses as one of the additional 3 courses that make up the (8) 3-4 credit courses required. Students must submit a research report for this course.
    - c) The ECE Seminar Course (520.895) and Special Studies courses cannot count towards the 5 ECE courses.
    - d) Students are required to take ~~EN~~the EN.520.895 ECE Seminar for **two** semesters.
  2. In addition to the eight courses above, students must also fulfill one of the following three requirements:
    - a) Satisfactory completion of two additional one-semester 3-4 credit graduate courses (xxx.400 - xxx.799) approved by the advisor. At least one of these courses must come from the full-time ECE department (520.XXX). These can include Independent Study and Dissertation or Master's Research, accompanied by the research report.
    - b) Write an M.S.E. essay (the official name of the master's theses at Johns Hopkins) acceptable to a member of the ECE faculty. The M.S.E. essay may be submitted to the library and must follow the guidelines described in <http://www.library.jhu.edu/library-services/electronic-theses-dissertations/>; or
    - c) Completion of a special project acceptable to a member of the ECE faculty and writing a corresponding report. A copy of this report must be submitted to the ECE office and become a permanent part of the student's record.
- If option B or C are chosen, the student must register with the 520.800- Independent Study, 520.802-Dissertation

Research, and 520.806-Master's Research assigned to their faculty member.

- Every graduate course designated Independent Study, Dissertation Research, or Special Studies counted toward the M.S.E. degree must include a written report. A copy of the report will become a part of the student's permanent file.
- Full-time MSE students are expected to take at least three, 3-4 credit courses for each of their first two semesters.
- To fulfill requirements 1 or 2, a course is satisfactorily completed if a grade from A+ to C- or a "P" is obtained. No more than one C+, C, or C- and/or "P/S" grade can be counted toward the degree requirements.

Some students are interested solely in the M.S.E. degree, while others may elect to receive an M.S.E. on the way to the Ph.D. Either way, the requirements are the same and the advisor's approval is required. Students enrolled solely in the M.S.E. program are not guaranteed admission to the Ph.D. program on successful completion of their degree. The departmental requirements for the M.S.E. degree subsume the university-wide requirements.

### 2.2.1 Course Transfer and Double Counting of Courses

Students may transfer up to two courses from outside JHU that have not already been applied to a degree elsewhere, subject to the Director of Graduate Studies' clearance. The degree-granting institution must give evidence that they were not used to obtain another degree. These courses cannot contribute toward the initial five EN.520.XXX requirement from section 2.2 on page (5). If you want your courses reviewed for transfer, please contact your Sr. Academic Program Coordinator about the process.

The ECE department does not allow Bachelor's/Master's double counting of courses. Students in the combined B.S.E./M.S.E. program can take courses concurrently for the two degrees, but each course may only count for either the B.S.E. or M.S.E. program.

Every student must be registered in the semester that degree requirements are met; this includes students who have no courses remaining in which to enroll but must resolve coursework for which an "Incomplete" grade was assigned and those who must complete other academic requirements, such as a language or computing requirement (these students may apply for Nonresident Status).

For more information, please see WSE Graduate Student Policies & Procedures at <https://engineering.jhu.edu/education/graduate-studies/graduate-academic-policies-procedures/>

### 2.2.2 M.S.E. Essays

The ECE department requires one official reader. This is the person who supervised the student's project. This must be a member of the Department's primary or secondary faculty. **If a student chooses to have an essay or project overseen by a faculty member outside of ECE, the primary faculty adviser must authorize the request.**

Master's essays may be submitted to the library for publishing. For information, see <http://www.library.jhu.edu/library-services/electronic-theses-dissertations/>.

## 2.3 Degree Completion

### 2.3.1 Degree Completion Deadlines

Students preparing to complete a degree program in each semester should see the Sr. Academic Program Coordinator to ensure that all necessary forms and requirements have been completed and submitted prior to the academic deadlines for the semester. Graduation and registration deadlines can be found on the Homewood Registrar's website: <https://studentaffairs.jhu.edu/registrar/students/> The deadlines to submit all certification material are usually:

- Fall (late-October)
- Winter (mid- to late-January)
- Spring (early-April for M.S.E., early-May for M.S.E.)
- Summer (late-August)

Students who have not completed their requirements by the first day of classes must register for the current semester. Those who complete their requirements prior to the October deadline will receive a full tuition refund for the fall semester, including any non-resident status fees. Tuition paid from departmental funds or research grants will also be refunded.

Those who have completed their requirements in the summer or fall will receive an interim certificate from the registrar's office indicating that all requirements have been met, and notation will be made on their transcript. Diplomas are awarded once a year, at the May Commencement. Additional information is available at

<http://homewoodgrad.jhu.edu/academics/graduate-board/deadlines>

### 2.3.2 Degree Completion Time Limit

The Whiting School of Engineering requires that students earn the M.S.E. degree within five consecutive academic years (10 semesters). The only exemption from this limit is for semesters in which a student has a university-approved leave of absence. Otherwise, all semesters from the beginning of the student's graduate studies – whether resident or not – count towards the ten-semester limit.

For further details regarding Time to Degree Limits, please refer to the information available at

<https://homewoodgrad.jhu.edu/graduate-board/new-grad-board-residency-page/>

### 2.3.3 Degree Completion Process

1. The candidate gets the “WSE Master's and CAS Completion Confirmation and the MSE Checklist” form from the ECE website at <http://engineering.jhu.edu/ece/departmental-forms>
2. The student fills out the student section of the WSE Master's and CAS Completion Confirmation form and returns to the Sr. Academic Program Coordinator. ~~Student~~The student also fills out the MSE Checklist and has it approved and signed by his/her advisor and gives the form to the Sr. Academic Program Coordinator.

Students who choose to submit a master's essay must submit it electronically to the JHU Library's ETD office <https://www.library.jhu.edu/library-services/electronic-theses-dissertations/>. Hardbound books will not be printed on campus, but information will be provided on where they can be printed and bound. The library will do some brief format checking. They will then approve the submission or email you about necessary changes. For information, see <https://www.library.jhu.edu/library-services/electronic-theses-dissertations/formatting-requirements/>

If students choose completion of a special project report, the candidate gives a copy of the report to the Administrator, who makes a copy of the title page for the WSE Graduate Committee, and files the report in the candidate's departmental file.

3. The candidates apply for graduation through SIS.
4. Documentation submitted to the WSE Graduate Committee by the Sr. Academic Program Coordinator:
  - WSE Master's and CAS Completion Confirmation form
  - MSE Checklist
  - Title page of special project report or master's essay, if applicable
  - The student's transcript if transferring courses from EP or another university

## 2.4 Part-Time Status and Tuition

Master's students of the Department of Electrical and Computer Engineering may become eligible for part-time status.

### “ALL-COURSE” MASTER'S STUDENTS

Master's students must register full-time for all semesters with a minimum of nine credits. If in a student's final semester, a student needs fewer than nine credits to complete the degree requirements, the student can switch to part-time status.



### **“ESSAY/PROJECT” MASTER’S STUDENTS**

After meeting the minimum two-semester “full-time” residency requirement - where a student pays full-time tuition for a minimum of two semesters - Whiting School master’s students who have not yet completed the research to the point where the final and sole activity is essay/project writing must maintain their “residency” status but can register as “part-time” students by registering for eight credits or less per semester.

### **PART-TIME RESTRICTIONS**

Students are ineligible to work as student workers, including as Course Assistants.

### **HOW TO OBTAIN PART-TIME STATUS**

Contact the Sr. Academic Program Coordinator to confirm eligibility to switch.

International students must first obtain approval from the International Office and complete a Reduced Course Load Request form through iHopkins. <https://ihopkins.jhu.edu/istart/controllers/start/StartEngine.cfm>

### **RESOURCES**

Whiting School Graduate Credit Hours: <http://homewoodgrad.jhu.edu/academics/wse-graduate-credit-hours/>

## **2.5 Non-Resident Status**

### **“ALL-COURSE” MASTER’S STUDENTS**

Students taking the “all-course” master’s degree are not eligible for non-residency status.

### **“ESSAY/PROJECT” MASTER’S STUDENTS**

Whiting School graduate students are eligible for non-residency status when all degree requirements except the writing of the master’s essay/project are complete. The essay/project research must be finished before the non-resident status can be requested. Note that WSE graduate students are typically granted only one semester of non-residency with the expectation that the essay/project will be written, read, and approved in that semester. The WSE will consider exception requests for an additional semester of non-residency.

### **NON-RESIDENT TUITION**

Non-resident students pay only 10% of the full-time tuition but have all the privileges of full-time students including access to campus services and faculty advising.

### **NON-RESIDENT RESTRICTIONS**

Non-resident students cannot enroll in courses; they also lose the Whiting School’s financial support for health insurance.

Non-resident students are automatically enrolled in health insurance, but can waive the insurance, if eligible for waiver by proof of enrollment in another health insurance plan with similar coverage.

To maintain non-resident status, students will have to register for non-resident status each semester and provide a letter explaining their progress toward the degree’s completion.

### **RESOURCES**

- Graduate Residency and Registration Policies: <https://homewoodgrad.jhu.edu/graduate-board/new-grad-board-residency-page/>
- Whiting School of Engineering Policy on Health Insurance page: <http://engineering.jhu.edu/graduate-studies/academic-policies-procedures-graduate/> (then select the Health Insurance tab)

## **3. Miscellaneous Academic Information**

### **3.1 Course Assistant Positions**

To assist in the teaching function of the Department, Course Assistant (CA) opportunities are provided to students to grade homework and papers, conduct laboratories, and hold office hours. CAs are remunerated for their efforts. Any position openings are announced at the beginning of each semester subject to faculty need and availability.

## 3.2 Ethics

Graduate students are expected to be aware of academic ethics and of actions that constitute unethical behavior. In brief, students must submit work that represents their own efforts. When ideas and/or results are drawn from other sources, those sources must be cited in the submitted work. Students may not collaborate or discuss solutions to any assignment prior to submission without explicit permission from the instructor. Use of email is to be strictly professional in nature. Unprofessional or inappropriate email will be considered a violation of university ethical policies.

Violations of academic ethics can have a severe impact on a student's program beyond the penalties described below. Those involved in unethical behavior will lose the confidence of the faculty and may be unable to find any faculty member willing to serve as their Research Advisor.

Faculty members will usually deal directly with students suspected of unethical behavior in their courses and will assign an appropriate penalty. The penalty may be failure in the assignment or examination or failure in the course. Faculty and students may seek the assistance of the Department Chair when agreement on the charges and penalties cannot be reached. In all cases, a summary of the charges and penalties will be placed in the student's permanent file.

Information about academic policies of the Whiting School of Engineering can be found at <http://engineering.jhu.edu/graduate-studies/academic-policies-procedures-graduate/>.

## 3.3 Research/Academic Probation

Whenever it is determined that a graduate student has failed to meet minimum academic, research, and/or CA requirements, that student may be placed on academic probation.

Students who obtain D or F grades in a course are often placed on academic probation. Receiving a D or F while on academic probation usually leads to the student's departure from the program.

This change in status includes a written letter and a meeting between the student and either their faculty advisor, chair, or departmental director of graduate studies. The letter should explicitly detail the student's academic shortcomings, highlight the corrective measures required to continue in the program, and specify the term of the student's probationary period. Any financial implications for the student should be included as well.

Please see the full policy for more information on process, appeals, etc. <https://engineering.jhu.edu/education/graduate-studies/graduate-academic-policies-procedures/> (Select the Homewood Schools Policy for Graduate Student Probation, Funding Withdrawal, and Dismissal Tab).

## 3.4 Academic Deadlines

- |   |   |
|---|---|
| • First Day of Fall Classes – <b>August 26, 2024</b>                | First Day of Spring Courses – <b>January 21, 2025</b>   |
| • Last Day to Add Fall Courses - <b>September 6, 2024</b>           | Last Day to Add Spring Courses- <b>February 2, 2025</b> |
| • Last Day to Drop Fall Courses – <b>October 7, 2024</b>            | Last Day to Drop Spring Courses – <b>March 3, 2025</b>  |
| • Registration Begins for Spring Courses – <b>November 10, 2024</b> |   |
| • Last Day of Fall Classes – <b>December 6, 2024</b>                | Last Day of Spring Classes - <b>April 28, 2025</b>      |
| • Fall Final Exams - <b>December 11 – 19, 2024</b>                  | Spring Final Exams - <b>May 5-13, 2025</b>              |

## 4. Policies – General Information

The Whiting School of Engineering and Johns Hopkins University set and administer a variety of policies that affect students. The following websites provide information on these policies; but are not all-inclusive. Your academic staff can help with policy questions and interpretations.

- General Graduate Student Policies - <https://homewoodgrad.jhu.edu/academics/policies/>

- WSE Graduate Academic Policies and Procedures - <https://engineering.jhu.edu/education/graduate-studies/graduate-academic-policies-procedures/>
- WSE and KSAS Graduate Credit Hours - <https://homewoodgrad.jhu.edu/academics/wse-graduate-credit-hours/>
- Non-Resident Status - <https://homewoodgrad.jhu.edu/graduate-board/new-grad-board-residency-page/>
- Leave of Absence - <https://homewoodgrad.jhu.edu/graduate-board/new-grad-board-residency-page/>
- Course Catalog - <http://e-catalog.jhu.edu/>
- Graduation Deadlines – <https://homewoodgrad.jhu.edu/graduate-board/deadlines/>

## 4.1 Notice of Nondiscrimination Policy

The Johns Hopkins University admits students of any race, color, gender, religion, national or ethnic origin, age, disability, or veteran status to all the rights, privileges, programs, benefits, and activities generally accorded or made available to students at the University. It does not discriminate on the basis of race, color, gender, religion, sexual orientation, national or ethnic origin, age, disability, or veteran status in any program or activity, including the administration of its educational policies, admission policies, scholarship and loan programs, and athletic and other University-administered programs. Accordingly, the university does not take into consideration personal factors that are irrelevant to the program involved.

Questions regarding access to programs following Title VI, Title IX and Section 504 should be referred to the Office of Institutional Equity for the University, responsible for the coordination of equal opportunity programs, Wyman Park Building, Suite 515, (410) 516-8075, oie@jhu.edu. <https://e-catalogue.jhu.edu/university-wide-policies-information/rights-privileges-responsibilities/discrimination-harassment-policy-procedures/>

## 5. JHU Resources

### Center for Leadership Education

The Center for Leadership Education provides many classes in engineering management, English as a second language, and professional communication. While these courses will not count towards the M.S.E. Degree, they can be useful. Please note: these classes will end up on your transcript, so the grades are important.

More information can be found here: <https://engineering.jhu.edu/cle/academics/undergraduate-studies/professional-communication-program/>

### Financial Aid

The Office of Student Financial Services has other financial aid sources available, including research assistantships and some fellowships. Any enrolled or accepted graduate student who is a U.S. citizen, U.S. permanent resident, or eligible non-citizen may apply for federal and state financial aid. Sources of aid, eligibility requirements, applications, and other information are available at <http://www.jhu.edu/finaid/grads.html>

### Graduate Student Organizations

Johns Hopkins has many student organizations. A list of some that are specifically geared to graduate students can be found here: <http://homewoodgrad.jhu.edu/life-at-hopkins/graduate-student-organizations/>

In addition, the Graduate Representative Organization (GRO) can be found here: <http://studentaffairs.jhu.edu/gro/>. The GRO maintains a list of student groups, which can be found here: <http://studentaffairs.jhu.edu/gro/clubs-groups/list-of-groups/>

### Information Technology and Computer Facilities

The Information Technology Department at Johns Hopkins, whose web site is located at <http://it.jhu.edu> is the online resource for all IT-related information. Their primary focus is to support the missions of the Johns Hopkins Institutions and provide technology solutions for faculty, staff, patients, and students in support of teaching, research, and patient care.

Their website serves as a repository for all IT-related information at Johns Hopkins. You will find a lot of useful information within this site, including an overview of the IT Organization, its projects and services, support for applications and general questions, and news about emerging technologies and strategic imperatives.

The Krieger Computing Lab is located in Krieger Hall. No account is required, just a student ID, for use of the 130 workstations which have basic office and imaging applications. <https://studentaffairs.jhu.edu/computing/campus-resources/>

### **International Office**

The International Office can be emailed at [ois@jhu.edu](mailto:ois@jhu.edu) and their website is <https://ois.jhu.edu/>. Please reach out to them with any visa related questions, including questions about Curricular Practical Training (CPT) and Optional Practical Training (OPT).

### **Library**

The JHU Libraries are extensive, both on-ground and online. The Sheridan Libraries, on the Homewood campus, include quiet rooms, group study rooms, and a café. Library resources can be found at <https://www.library.jhu.edu/support/> or contact Sue Vazakas, the Librarian and Academic Liaison for the Electrical and Computer Engineering Department. She can be contacted by email at [svazakas@jhu.edu](mailto:svazakas@jhu.edu) or phone at 410-516-4153.

The library also purchases books and journals based on departmental requests. Student requests for books or journals should also be communicated to Sue Vazakas.

### **Security**

While the Hopkins Security Department provides ample and appropriate security to the campus, they remind us that we must play our part. Please exercise common sense when entering and leaving your office, classrooms, and labs.

- Secure your computers, especially laptops!
- Back up your work onto separate disks or systems in case something happens to the computer via virus, equipment problems, or theft. The University provides free anti-virus software that can be downloaded from the website at <https://it.johnshopkins.edu/services/network/resnet/antivirus>
- Secure your laptop cases or any bag that might be mistaken for a computer bag.
- Lock your car and don't leave any items inside your car in plain sight. Secure them in your trunk or bring them with you.
- Secure your personal items such as your purse, wallet, books, equipment, and your coat or jacket.
- If you see someone suspicious in your lab or office, don't confront the individual; contact Security at 410-516-7777 right away. Your personal safety is most important.
- If you are uncomfortable walking through campus or in your car at night or otherwise are concerned for your safety, the Security department provides escort services to selected locations. Call 410-516-8700 to arrange for an escort.

### **Student Disability Services**

The Office of Student Disability Services (SDS) assists full-time undergraduate and graduate students in the Krieger School of Arts and Sciences and the Whiting School of Engineering with disability concerns, in compliance with the provisions of the Americans with Disabilities Act of 1990 (ADA) and Section 504 of the Rehabilitation Act of 1973. SDS assists the University community in understanding the effects of disabilities and in eliminating the physical, technical, attitudinal and programmatic barriers that limit the range of opportunities for students with disabilities, as well as provides individuals with reasonable accommodations. The SDS maintains and protects the confidentiality of individual records as required by law. For additional information and to access the services of the SDS office, please visit

<https://studentaffairs.jhu.edu/disabilities/> contact them at 410-516-4720 or [studentdisabilityservices@jhu.edu](mailto:studentdisabilityservices@jhu.edu), or visit their office in Shaffer Hall, Suite 101.

### **Student Employment**

The Student Employment Services office offers opportunities for employment for many positions on the campus. They will help you determine your work eligibility. Should you wish to obtain additional employment, please speak with your advisor so you will be able to fulfill the obligations of your education. The Student Employment Services website is located at <https://sfs.jhu.edu/types-of-aid/student-employment/>

### **Student Health and Wellness Center**

Students who feel sick or have questions about their health can visit the Student Health and Wellness Center. You may make an appointment and get more information about their services and location here:

<https://studentaffairs.jhu.edu/student-health/>

If you are struggling with anxiety, stress, depression, or other mental health–related concerns, please consider visiting the JHU Counseling Center. If you are concerned about a friend, please encourage that person to seek out counseling. The Counseling Center is located at 3003 North Charles Street in Suite S-200 and can be reached at 410-516-8278 and online at <https://studentaffairs.jhu.edu/counselingcenter>.

Other support services offered to JHU students to support the 8 facets of well-being (emotional and mental, physical, social, sexual, spiritual, financial, environmental, and professional) can be found here: <https://wellbeing.jhu.edu/>

### **Writing Center**

The Johns Hopkins Writing Center offers individual meetings with experienced tutors, including experts in scientific and engineering writing styles. More information can be found here: <https://krieger.jhu.edu/writingcenter>

## **5.1 Additional Services and Resources**

The University offers a variety of services. These are among some others not listed above.

- Office of the Registrar - <https://studentaffairs.jhu.edu/registrar>
- Parking and Transportation Services - <https://jhfre.jhu.edu/ts/parking/>
- Student Financial Services - <https://sfs.jhu.edu/>
- Student Accounts - <http://www.jhu.edu/studacct>
- Office of Institutional Equity - <http://oie.jhu.edu>
- Ralph O'Connor Recreation Center - <http://web.jhu.edu/recreation/>
- Community Living (Housing) - <https://studentaffairs.jhu.edu/community-living/>
- JHU Career Center - <https://studentaffairs.jhu.edu/life-design>
- Center for Social Concern – <https://studentaffairs.jhu.edu/socialconcern/> (service opportunities and advocate for social change)
- Campus Ministries – <https://studentaffairs.jhu.edu/campus-ministries> (for all faiths and those seeking spiritual growth)
- Counseling Center – <https://studentaffairs.jhu.edu/counselingcenter> (whenever we need a little extra help from our friends)
- The Hub – <http://hub.jhu.edu/> (the University's official news publication)
- Johns Hopkins Magazine- <https://hub.jhu.edu/magazine/>
- Graduate Representative Organization (GRO) - <https://studentaffairs.jhu.edu/gro/>
- Digital Media Center - <https://studentaffairs.jhu.edu/dmc/>

## 5.2 JHU and Baltimore Extracurricular Activities

Many groups and organizations throughout the University provide ample opportunities for social times and fun. Check out these websites for information:

- Campus Life - <https://www.jhu.edu/life>
- Arts and Culture - <https://www.jhu.edu/life/arts-culture>
- Recreation Center – <https://studentaffairs.jhu.edu/recreation/> (grad students have free membership)
- Hopkins Athletics - <https://hopkinssports.com/>
- Baltimore Collegetown - <https://baltimorecollegetown.org/>
- Baltimore Area Convention and Visitors Association - <http://baltimore.org>
- Baltimore Office of Promotion and the Arts - <http://promotionandarts.org>

## Appendix – Electrical and Computer Engineering Personnel

### A.1 Tenured and Tenure Track Faculty

Andreas G. Andreou, Professor  
Muyinatu Bell, Johns C. Malone Associate Professor  
Rama Chellappa, Bloomberg Distinguished Professor  
Najim Dehak, Associate Professor  
Yury Dvorkin, Associate Professor  
Mounya Elhilali, Charles Renn Faculty Scholar and Professor  
Ralph R. Etienne-Cummings, Julian S. Smith Professor  
Deliang Fan, Associate Professor  
Mahyar Fazlyab, Assistant Professor  
Amy C. Foster, Associate Professor  
Mark A. Foster, Associate Professor and Associate Head of Graduate Education  
Sijia Geng, Assistant Professor  
John I. Goutsias, Professor  
Pablo A. Iglesias, Department Head and Edward J. Schaefer Professor  
Pedro Irazoqui, Professor  
Jin U. Kang, Jacob Suter Jammer Professor  
Sanjeev P. Khudanpur, Associate Professor  
Jacob B. Khurgin, Professor  
Enrique Mallada, Associate Professor  
Tinoosh Mohsenin, Associate Professor  
Vishal Patel, Associate Professor  
Jerry L. Prince, William B. Kouwenhoven Professor  
T. E. Schlesinger, Benjamin T. Rome Dean and Professor  
Susanna Thon, Associate Professor and Associate Head of Undergraduate Education  
Trac D. Tran, Professor  
Howard L. Weinert, Professor  
James West, Professor

Note that all tenure-track faculty members are eligible to supervise doctoral dissertations in the ECE doctoral program.

### A.2 Research Faculty and Joint/Secondary Appointments

Noah I. Cowan, Associate Professor, Mechanical Engineering  
Atul Deshpande, Assistant Professor, JHU SOM Oncology  
Nicholas Durr, Assistant Professor, Biomedical Engineering  
Eric C. Frey, Professor, JHU SOM Radiology  
Dennice F. Gayme, Associate Professor, Mechanical Engineering  
Gregory D. Hager, Mandell Bellmore Professor, Computer Science  
Xingde Li, Associate Professor, Biomedical Engineering  
Nicolas Loizou, Assistant Professor, Applied Mathematics and Statistics  
Ernst Niebur, Professor, Neuroscience  
Laureano Moro-Velazquez, Assistant Research Professor  
Arvind Pathak, Associate Professor, JHU SOM Radiology  
Philippe Pouliquen, Assistant Research Professor and Lecturer  
George Sgouros, Professor, Radiology and Radiological Sciences  
Webster Stayman, Assistant Professor, Biomedical Engineering  
Nitish V. Thakor, Professor, Biomedical Engineering

Jesús Villalba, Assistant Research Professor  
Joshua Vogelstein, Associate Professor, Biomedical Engineering

### A.3 Teaching Faculty

Lucas Buccafusca, Lecturer  
Sathappan Ramesh, Lecturer

### A.4 Department Staff

Nicole Aaron, Administrator  
Ashley Moriarty, Senior Academic Program Coordinator (PhD)  
Malik Johnson, Senior Academic Program Coordinator (BS & MSE)  
Jennifer Miller, Administrative Coordinator  
Shawdoe McKinney, Budget Analyst  
Tom Judy, Senior Grants & Contracts Specialist  
Cora Mayenschein, Research Services Analyst  
Laura Granite, Administrative Coordinator