



JOHNS HOPKINS  
UNIVERSITY

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Department of Electrical and Computer Engineering

# Graduate Student Manual

## MSE Program

**2022 - 2023**

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## **1. WELCOME**

Welcome to the Department of Electrical and Computer Engineering! This manual can help you plan a program of graduate study leading to the Master of Science in Engineering (M.S.E.) degree. Its pages are devoted to policies, rules, procedures (in italics), and suggestions about our program with the intention of providing useful information about these programs. However, uncertainty is implicit in any endeavor, and this document is not phrased to professional legal standards and remaining questions should be addressed to your advisor, the Director of Graduate Studies, or the Department Head.

Having noted what this manual is about, it is important to emphasize that the most important aspect of graduate study is seldom mentioned. As a student entering our program, you are beginning a joint enterprise with other students and the faculty that, at its best, is stimulating, enjoyable, and rewarding for all concerned. Advanced study, innovative fundamental research, and publication of results are the goals. The mechanics documented here are in place to help you achieve these goals.

## **2. M.S.E. DEGREE PROGRAM REQUIREMENTS**

The requirements for the Master of Science in Engineering (M.S.E.) degree, 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. Note that all students who wish to be admitted to our graduate program leading to an M.S.E. must have a bachelor's degree or its equivalent upon entry.

### ***2.1. Summary of Degree Requirements***

### ***2.2. University and Whiting School Degree Requirements***

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

- Two semesters of full-time course registration, also called “residency” (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 academic ethics and responsible conduct of research courses.

#### **2.2.1. 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 in 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.

- Seminars – 1 credit
- WSE courses, both undergraduate and graduate – 3 or 4 credits
- 520.806 Master’s Research – 3-10 credits
- NOTE:
  - Audited courses do not count toward a full-time credit load but do generate a tuition charge for MSE students.
  - While Krieger School of Arts and Sciences’ (KSAS) graduate-level courses do not have credits listed in SIS, they are recognized as 3-4 credits toward the full-time credit load. KSAS graduate-level courses are 400 level and above.
- Full-time MSE students are expected to take at least three, 3 credit courses for each of their first two semesters.
- All graduate students on JHU payroll should register for EN.520.803 Summer Graduate Research for 9 credits during each summer.
- All first year MSE students are required to register for EN.520.895 ECE Seminar in both Fall and Spring semesters.
- 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>
- Visit the Whiting School’s Frequently Asked Questions page at <http://homewoodgrad.jhu.edu/academics/wse-graduate-credit-hours/> for more information.

### **2.2.3. 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.
- 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.

#### **2.2.4. Academic Ethics**

As an M.S.E. student, you will be automatically enrolled in the online tutorial 500.603 Academic Ethics, 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.

#### **2.3. ECE Department Requirements for the M.S.E.**

The requirements for the M.S.E. degree in Electrical and Computer Engineering (ECE) 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 520.700-Master's Research, 520.800-Independent Study, and 520.801-Dissertation Research. Students may count one of these primarily 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.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 must 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 becomes a permanent part of the student's record.

- 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.

### **2.3.1. Course Transfer and Double Counting of Courses**

- Subject to the approval of the advisor, students may transfer up to two courses from outside JHU if they have not been applied to a degree elsewhere. Evidence that they were not applied to a degree elsewhere will need to be provided by the degree granting institution. These courses cannot count for the 520.xxx requirement.
- 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).

### **2.3.2. 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.

Masters essays may be submitted only electronically. For information, contact the Electronics Theses and Dissertations (ETDs) office of the Sheridan Library at [etd-support@jhu.edu](mailto:etd-support@jhu.edu).

## **2.4. Degree Completion**

### **2.4.1. Degree Completion Deadlines**

The master's degree completion schedule and deadlines are available at <http://engineering.jhu.edu/graduate-studies/academic-policies-procedures-graduate/>.

Be sure to meet the deadlines when completing your degree and related applications to graduate.

#### **2.4.2. 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.

#### **2.4.3. Degree Completion Forms**

Students who have completed the requirements for the M.S.E. degree should complete both the "Application for Graduation" form, through their SIS record, and the "MSE Checklist" form.

#### **2.4.4. Graduation Process**

1. The candidate gets the "WSE Master's and CAS Completion Confirmation and the MSE Checklist" form from the ECE website at <https://engineering.jhu.edu/ece/academics/advising/>
2. The student fills out the student section of the WSE Master's and CAS Completion Confirmation form and returns to the Senior Academic Program Coordinator. Student also fills out the MSE Checklist and has it approved and signed by his/her advisor and gives the form to the 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 their SIS record.
4. Documentation submitted to the WSE Graduate Committee by the Administrator:
  - "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

#### **2.5. 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 TUITION (2022-2023 academic year)**

Students who enroll as part-time students are charged \$6048 minimum for up to 3 credits: then \$2016 per credit after minimum tuition

#### **PART-TIME RESTRICTIONS**

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

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

Contact one of the Senior Academic Program Coordinators 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](#).

#### **RESOURCES**

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

## **2.6 Non-Residency Status and Tuition**

#### **"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.

## **HOW TO OBTAIN NON-RESIDENT STATUS**

- Contact one of the Senior Academic Program Coordinators to confirm eligibility for non-resident status.
- Complete the Non-Resident Status for Whiting School form. This form will be sent by the Senior Academic Program Coordinator to the Whiting School Academic Affairs office for review and approval.
- If the Non-Resident request is denied, a student may be eligible for part-time status.

## **RESOURCES**

- Graduate Residency and Registration Policies: <http://homewoodgrad.jhu.edu/academics/graduate-board/new-grad-board-residency-page/>
- Graduate Board Forms, which include the Non-Resident Application and the Non-Resident Annual Report: <http://homewoodgrad.jhu.edu/academics/graduate-board/policies-and-forms/>
- 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.

### **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 of 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/>. Please read them.

### **3.3. Research/Academic Probation**

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

This change in status requires a formal letter and a meeting between the student and either their faculty advisor, chair, and/or departmental director of graduate studies. The letter should clearly outline the student's academic shortcomings, indicate the corrective measures necessary to remain in the program and state the length of the student's probationary period. Any funding ramifications for the student should be included as well.

Please see the [full policy](#) for more information on process, appeals, etc.

### **3.4. Academic Deadlines**

Students preparing to complete a degree program in a given semester should see the Administrator 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 Ph.D., 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>

#### **4. FINANCIAL AID**

The Graduate Admissions and Fellowships Committee in the department make decisions on financial aid. Among other actions, this committee awards departmental fellowships to newly admitted students.

The Office of Student Financial Services has other financial aid sources available. 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 <https://finaid.jhu.edu/>

#### **5. PAYROLL**

Students who are on JHU payroll receive checks distributed semi-monthly, on the 15th and the last day of the month. If payday falls on a weekend or holiday, paychecks are distributed the last regular working day preceding the payday. For your convenience, Direct Deposit to your bank account is available; log in to my.jh.edu and select HR, then login to ESS, click Payroll Information and then Direct Deposit. Follow the instructions to set up your Direct Deposit.

Many of our graduate students are paid a salary; a few are paid a stipend. Please make sure you understand whether you receive a *salary* or a *stipend*. The difference may have important tax ramifications, particularly for international students. International students may contact the Office of International Services at [ois@jhu.edu](mailto:ois@jhu.edu) or 667-208-7001, or the Tax Office at [tax@jhu.edu](mailto:tax@jhu.edu) or 443-997-8688 for assistance.

#### **6. 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.

- When you leave your office, if you are the only one there, lock the doors even if you leave only for a minute. Thefts take only a few seconds and valuable equipment and your work can disappear instantly.
- Secure your computers, especially laptops. Take your laptops with you when you leave your office.

- Back up your work onto separate disks or systems in case something happens to computer via virus, equipment problems, or theft. The University provides free anti-virus software that can be downloaded from the website at <http://it.jhu.edu>.
- Lock your car and do not 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 to 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.

## **7. STUDENT HEALTH AND WELL-BEING**

Johns Hopkins University strives to promote awareness of and holistic support for student well-being. It values inclusion and overall health, and promotes strategies for resilience in the context of stressful situations and life events common among undergraduates and graduate students.

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 [studentaffairs.jhu.edu/counselingcenter](http://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/>

## **8. MISCELLANEOUS INFORMATION**

### **8.1. *Student Employment***

Apart from the graduate student support mechanisms discussed earlier, opportunities for part-time employment opportunities arise within the University, and in the Baltimore/Washington area. Normally, opportunities known to the department are posted and/or communicated informally. A wise student will let his advisor and other faculty members know of his interests. The faculty believes these additional jobs can cut heavily into the time, energies, and concentration available for the M.S.E. program if not appropriately moderated. Therefore, students should discuss their plans with their advisors. In addition, the following regulations have been adopted:

- Full-time graduate students are permitted no more than 20 hours per week of additional employment.
- Full-time graduate students enjoying nominally full support by the University are permitted no more than eight (8) hours per week of additional employment.

The University Experiential Learning office offers opportunities for employment for many positions on the campus. They will help you determine your work eligibility. Their website is located at <https://studentaffairs.jhu.edu/studentemployment/>.

## **8.2. Library Facilities**

The Milton S. Eisenhower Library makes available to the ECE Department several carrels (desks with lockers) each year. The assignment of carrels is made in August or September, and graduate students interested in obtaining a carrel should notify the Administrator. Students who would like to reserve a locker or group study room in the library should visit <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.

## **8.3. Computer Facilities**

There are plenty of computing facilities and services available to the Johns Hopkins community. The Information Technology website at <http://it.jhu.edu> offers an overview of the IT Organization, its projects and services, support for applications and general questions, and news about emerging technologies and strategic imperatives, as well as e-mail, web, and file sharing services.

The Krieger Computing Lab located in Krieger Hall is maintained by HITS. No account is required, just a student ID, for use of the 130 workstations which have basic office and imaging applications.

## **8.4. Information Technology**

The Information Technology Department at Johns Hopkins provides email services through the Johns Hopkins Enterprise Mail (JHEM) server. A JHEM account can be activated once you have a J-Card. To activate your JHEM account, go to <https://my.jh.edu/portal/web/jhupub> and follow the instructions for first time logins.

## **8.5. 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 see their website at <https://studentaffairs.jhu.edu/disabilities/> or contact them at 410-516-4720 or [studentdisabilityservices@jhu.edu](mailto:studentdisabilityservices@jhu.edu). You may also visit their office in Mason Hall, Suite 101.

## **9. STUDENT GROUPS AND ACTIVITIES**

### **9.1. *Institute of Electrical and Electronics Engineers, Inc. (IEEE)***

The Johns Hopkins University student chapter of the Institute of Electrical and Electronic Engineers strives to promote the career opportunities available and to raise awareness of new developments in the field among electrical and computer engineering students by fostering interaction among students, faculty, employers and professional engineers.

Graduate students are invited to join the student chapter of the IEEE. Applications are available in the ECE Department office.

### **9.2. *University and Department Graduate Student Representative***

Each year the graduate students elect a full-time Ph.D. student to serve as a departmental representative to the University's Graduate Representative Organization. The GRO, whose website is <https://studentaffairs.jhu.edu/gro/>, is an advocacy group for all graduate students. The GRO serves the student body as a liaison to the University's schools, administration, and dean's offices as well as hosts social activities and provides extensive information about life on campus and in and around Baltimore. Each department sends a graduate student representative to serve in the GRO, and an announcement is made each year as to who will represent the department. You are welcome to forward to the representative your questions and concerns, which will be presented at GRO meetings.

### **9.3. *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>
- Baltimore Area Convention and Visitors Association - <http://baltimore.org>
- Baltimore Office of Promotion and the Arts - <http://promotionandarts.org>

## **10. NOTICE OF NONDISCRIMINATION POLICY STATEMENT**

The Johns Hopkins University admits students of any race, color, gender, religion, national or ethnic origin, age, disability, or veteran status to all of 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.



## **Appendix**

### **A.1 ELECTRICAL AND COMPUTER ENGINEERING PERSONNEL**

#### ***A.1.1. Tenure and Tenure Track Faculty***

Andreas G. Andreou, Professor and Interim-Chair  
Muyinatu Bell, Assistant Professor  
Rama Chellappa, Bloomberg Distinguished Professor  
Najim Dehak, Associate Professor  
Mounya Elhilali, Charles Renn Faculty Scholar and Professor  
Ralph R. Etienne-Cummings, Professor  
Amy C. Foster, Associate Professor  
Mark A. Foster, Associate Professor and Director of Graduate Studies  
John I. Goutsias, Professor  
Hynek Hermansky, Julian S. Smith Professor  
Pablo A. Iglesias, Edward J. Schaefer Professor  
Jin U. Kang, Jacob Suter Jammer Professor  
Sanjeev P. Khudanpur, Associate Professor  
Jacob B. Khurgin, Professor  
Enrique Mallada, Assistant Professor  
Vishal Patel, Assistant Professor  
Jerry L. Prince, William B. Kouwenhoven Professor  
T. E. Schlesinger, Professor and Benjamin T. Rome Dean  
Susanna Thon, Associate Professor and Director of Undergraduate Studies  
Trac D. Tran, Professor  
Archana Venkataraman, John C. Malone Assistant Professor  
Howard L. Weinert, Professor  
James West, Professor

#### ***A.1.2. Research Faculty and Joint/Secondary Appointments***

Paul A. Bottomley, Russell H. Morgan Professor, JHU SOM Radiology  
Carlos Castillo, Associate Research Professor  
A. Brinton Cooper III, Associate Research Professor  
Noah I. Cowan, Associate Professor, Mechanical Engineering  
Nicholas Durr, Assistant Professor, Biomedical Engineering  
Mahyar Fazlyab, Assistant Research Professor  
Eric C. Frey, Professor, JHU SOM Radiology  
Israel Gannot, Associate Research Professor  
Dennice F. Gayme, Associate Professor, Mechanical Engineering  
Gregory D. Hager, Mandell Bellmore Professor, Computer Science  
Xingde Li, Associate Professor, Biomedical Engineering  
Michael I. Miller, Bessie Darling Professor and Director, Biomedical Engineering

Laureano Moro-Velazquez, Assistant Research Professor  
Arvind Pathak, Associate Professor, JHU SOM Radiology  
Philippe Pouliquen, Assistant Research Professor and Lecturer  
Charbel Rizk, Associate Research Professor and Lecturer  
Sri Sarma, Associate Professor, Biomedical Engineering  
Webster Stayman, Assistant Professor, Biomedical Engineering  
Nitish V. Thakor, Professor, Biomedical Engineering  
Jesús Villalba, Assistant Research Professor  
Raimond L. Winslow, Raj & Neera Sing, Professors, Biomedical Engineering

### ***A.1.3. Department Staff***

Nicole Aaron, Administrator  
Belinda Blinkoff, Senior Academic Program Coordinator  
Laura Granite, Administrative Coordinator  
Jabari Joyner, Budget Analyst  
Tom Judy, Senior Grants & Contracts Specialist  
Cora Mayenschein, Research Services Analyst  
Sathappan Ramesh, Senior Laboratory Coordinator  
Dana Walter-Shock, Senior Academic Program Coordinator