ENVIRONMENTAL HEALTH AND ENGINEERING, MASTER OF SCIENCE IN ENGINEERING

The Environmental Health and Engineering, Master of Science in Engineering* (MSE) is designed to prepare students with an ABET-accredited undergraduate engineering degree, or equivalent, to enter the workforce as leaders in the field. Students have five tracks to choose from, each with unique curricular requirements. Minimum prerequisites (required) for the MSE program include at least one semester of college-level calculus, one semester of general chemistry, and one semester of physics. Students who have not taken college-level chemistry or physics can take these courses during the first semester of the degree program, though they do not count toward the minimum number of credits required for graduation.

*Previously the name of this degree was 'Geography and Environmental Engineering Master of Science'. The name changed to the one listed above in 2025 and will replace the old name for any students matriculating in spring 27 and beyond.

Program Requirements

Each individual's program of study is planned by the student in consultation with department faculty and must be approved by the faculty advisor. A minimum 30 credits spread out over two semesters is required to complete the MSE degree without the research project option.

The MSE program is typically a two-semester program based on course work alone. However, MSE students have the option to complete an independent research project, submitted as a formal essay or memo (see below). A minimum of two semesters is required to complete the MSE degree without the research project option. Three to four semesters are typically required to complete the degree with a research project.

The MSE degree program includes the following general requirements:

- All WSE graduate students are required to complete AS.360.624 Responsible Conduct of Research (Online), as well as Academic Ethics EN.500.603 Graduate Academic Ethics, in the first semester that they are enrolled as a student.
- The 30 graduate-level credits can include no more than:
  - 1 credit of seminar,
  - 1 credit of intersession course work OR 1.5 credits from the Center for Leadership Education (with advisor approval),
  - 6 credits of independent research (EN.570.803 or 570.800)
- At least 50% of the required 30 credits must come from courses within the department. The Department of Environmental Health and Engineering's course codes are 570, 180-5, and 187-8. N.B. WSE and BSPH use different credit systems for their courses. A public health course that is listed as 3 credits in the Catalogue is worth less than 3 credits after the Registrar converts that course to the WSE course credit scale. The conversion factor is usually (2/3). I.e., BSPH courses taken by WSE students are converted to two-thirds of the value listed in the Catalogue.
- Students are eligible to take up to two online courses through the Engineering for Professionals program the summer before they start their full-time, residential master's program. These courses apply to their master's degree if satisfactorily completed. Please contact the program academic staff for more information.
- Up to 4 courses from AAP or EP may be taken and counted to receive a master's degree as long as there is sufficient rigor and prior approval as deemed by the advisor. Students must have written consent from advisor prior to signing up for the course.

Master's Quarterly Meeting

MSE students formally meet as a group four times during the academic year. These meetings aim to build community, provide professional development, and share information about administrative, course, or other programmatic issues. **These meetings are mandatory for all students in the program.**

Independent Research Project

The MSE provides an opportunity to do independent research, in addition to the 30 credits of coursework. The work must represent an original hypothesis-driven investigation on a topic of interest to the student and agreed upon by a research advisor. Students are responsible for identifying a faculty member who matches their research interest and is willing to advise a research project. It is recommended that students talk with their academic advisor about a research project as early as possible, and students interested in research must identify a research advisor no later than the beginning of the second semester. We also recommend that students who are interested in research commit to at least two semesters to the project; it can be difficult to both learn the requisite skills and complete an entire project within a single semester. *Students can count up to 6 credits of research (EN.570.803 or 570.800) toward their master's degree requirements. Beyond this, an additional 6 credits of EN.570.803 or 570.800 should be taken if the independent research option is selected.* Students may also drop to part-time status during their last semester of the program and take advantage of lower part-time tuition rates while conducting research.

Once a research advisor agrees to advise the student, the proposal writing begins. The research proposal may be based on an NSF proposal format. It should include an in-depth review of the literature (~2 pages), specific aims or objectives (about 1 page), the research strategy (3 pages), and references. The proposal should be approved by the advisor before research begins.

Following successful completion of the research project, the student should draft either a thesis, a manuscript, or a brief memo based on that work. If a thesis is the chosen format, it should adhere to University guidelines, which can be found on the Johns Hopkins Sheridan Libraries website. Example sections include: Abstract, Background, Methods, Publishable Paper, Conclusions, Appendix (Raw Analysis Results). Students who choose the thesis option should submit an electronic copy of the thesis to the department's academic coordinator and can submit the thesis to the Sheridan Libraries for archiving. If a manuscript format is chosen, document quality must be suitable for publication in a peer-reviewed scientific journal. The last option is to write a short memo at the end of the research project briefly summarizing the research results. The memo should be roughly five pages in length and include figures, bullet points, or narrative text to succinctly and briefly summarize the research results.

Students will present their research during a session organized by the Department in May. Presentations should be ten minutes in length, followed by five minutes of questions and answers from faculty and

students. The academic team will work with students to schedule the presentations.

Tracks for the MSE Degree

ENVIRONMENTAL ENGINEERING AND SCIENCE

This track focuses on the analysis and design of processes that affect the quality of both the natural and built environment. Specific topics include: physical, chemical and biological phenomena relevant to drinking water treatment; waste and wastewater treatment; environmental remediation; air pollution and air quality; transport and transformation of pollutants in the environment.

Code	Title	Credits
Students must take 5 of the following core requirements in environmental engineering and related fields:		
EN.570.610	Engineering Microbiology	3
EN.570.615	Current Trends in Environmental Microbiology	3
EN.570.623	Environmental Impacts of Climate Change	3
EN.570.625	Environmental Physics and Engineering	3
EN.570.626	Groundwater, Porous Media, and Hydrogeology	3
EN.570.633	Water and energy in the terrestrial biosphere	3
EN.570.641	Environmental Inorganic Chemistry	3
EN.570.642	Environmental and Analytical Organic Chemistry	3
EN.570.643	Aquatic and Biofluid Chemistry	3
EN.570.644	Physical and Chemical Processes	3
EN.570.646	Biological Processes of Wastewater Treatment	3
EN.570.649	Water quality of rivers, lakes, and estuaries	3
EN.570.653	Hydrology	3
EN.570.656	Environmental Electrochemistry	3
EN.570.657	Air Pollution	3
EN.570.690	Solid Waste Engineering and Management	3
EN.570.691	Hazardous Waste Engineering and Management	3
PH.180.647	The Health Effects of Indoor and Outdoor Air Pollution	3
PH.182.615	Airborne Particles	4
AS.270.679	Atmospheric Science	3
EN.570.680	Energy Use, Climate Change, and Our Engineered Infrastructure	3
EN.575.623	Industrial Processes and Pollution Prevention	3
EN.575.721	Air Quality Control Technologies	3
1 of the following courses in engineering mathematics or statistics:		
EN.570.616	Data Analytics in Environmental Health and Engineering	3
EN.570.695	Environmental Health and Engineering Systems Design	3
EN.570.697	Risk and Decision Analysis	3
The remaining courses will be a research project or electives that are appropriate to the student's goals and approved by a faculty advisor. The remaining electives can be engineering courses ("EN"), arts and sciences courses ("AS"), or public health courses ("PH").		

HYDROLOGY AND Water resources

This track focuses on the role of hydrologic processes in various earth and environmental contexts, including extreme events, such as floods and droughts; climate change impacts; transport within aquatic systems; geomorphology and landscape development; and the analysis, design, and operation of water resources systems.

Code	Title	Credits
Required courses:		
EN.570.653	Hydrology	3
Take 1 of the following courses in applied math, numerical analysis, or engineering math:		
EN.570.695	Environmental Health and Engineering Systems Design	3
EN.570.697	Risk and Decision Analysis	3
EN.530.766	Numerical Methods	3
Take the following data analytics course:		
EN.570.616	Data Analytics in Environmental Health and Engineering	3
Take 1 of the following courses in water resources and related fields:		
EN.570.615	Current Trends in Environmental Microbiology	3
EN.570.626	Groundwater, Porous Media, and Hydrogeology	3
EN.570.641	Environmental Inorganic Chemistry	3
EN.570.643	Aquatic and Biofluid Chemistry	3
EN.570.644	Physical and Chemical Processes	3
EN.570.690	Solid Waste Engineering and Management	3
EN.575.626	Hydrogeology	3
EN.575.629	Modeling Contaminant Migration through Multimedia Systems	3
EN.575.708	Open Channel Hydraulics	3
EN.575.716	Principles of Estuarine Environment: The Chesapeake Bay Science and Management	3
EN.575.728	Sediment Transport and River Mechanics	3
EN.575.730	Geomorphic and Ecologic Foundations of Stream Restoration	3
The remaining courses will be a research project or electives that are appropriate to the student's goals and approved by a faculty advisor. The remaining electives can be engineering courses ("EN"), arts and sciences courses ("AS"), or public health courses ("PH").		
EN.570.633	Water and energy in the terrestrial biosphere	3
EN.570.649	Water quality of rivers, lakes, and estuaries	3

Data Science and Analytics for Enviromental health and engineering

This track emphasizes innovative computational, statistical, and "big data" tools with applications to environmental problems in air pollution, energy systems, hydrology, and climate change.

Code	Title	Credits
Students are required to take 2 of the following courses in data science foundations:		
EN.570.616	Data Analytics in Environmental Health and Engineering	3
EN.553.620	Probability	4
EN.553.626	Introduction to Stochastic Processes	4
EN.553.630	Mathematical Statistics	4
AS.180.334	Econometrics	3
Take at least 3 of the following courses in environmental foundations:		
AS.270.618	Remote Sensing of the Environment	3
AS.270.641	Present and Future Climate	3
AS.270.679	Atmospheric Science	3

PH.180.607	Climate Change and Public Health	3
PH.182.613	Exposure Assessment Techniques for Health Risk Management	3
PH.182.615	Airborne Particles	4
EN.570.607	Energy Policy and Planning Models	3
EN.570.616	Data Analytics in Environmental Health and Engineering	3
EN.570.626	Groundwater, Porous Media, and Hydrogeology	3
EN.570.643	Aquatic and Biofluid Chemistry	3
EN.570.653	Hydrology	3
EN.570.657	Air Pollution	3
EN.570.697	Risk and Decision Analysis	3
EN.575.658	Natural Disaster Risk Modeling	3
Take at least 2 courses in Advanced Data Science. To fulfill this requirement, students may take mathematics, statistics, or data science courses offered in any of the following departments: EN Applied Mathematics & Statistics; EN Computer Science; PH Biostatistics; PN Biostatistics		
The remaining courses will be a research project or electives that are appropriate to the student's goals and approved by a faculty adviser. The remaining electives can be engineering courses ("EN"), arts and sciences courses ("AS"), or public health courses ("PH").		

ENVIRONMENTAL MANAGEMENT AND ECONOMICS

This track focuses on the use of models of physical and economic systems to analyze and improve the design and operations of public policies, environmental control systems, and infrastructure for energy, transportation, water, and other critical services.

Code	Title	Credits
Students in this track must enroll in the following seminar:		
EN.570.873	Environmental Science & Management Seminar (one semester required; two semesters encouraged)	1
Take 1 of the following courses in fundamental decision frameworks:		
EN.570.697	Risk and Decision Analysis	3
PH.318.603	Applied Microeconomics for Policymaking	3
BU.220.620	Business Microeconomics	2
EN.575.611	Economic Foundations for Public Decision Making	3
Take 1 of the following courses in fundamental tools:		
EN.570.695	Environmental Health and Engineering Systems Design	3
EN.570.616	Data Analytics in Environmental Health and Engineering	3
Take 1 of the following courses in fundamentals of environmental systems:		
EN.570.643	Aquatic and Biofluid Chemistry	3
EN.570.644	Physical and Chemical Processes	3
EN.570.653	Hydrology	3
EN.570.657	Air Pollution	3
AS.270.679	Atmospheric Science	3
Take 1 of the following courses in applications:		
EN.570.607	Energy Policy and Planning Models	3
EN.560.653	An Introduction to Network Modeling	4
Take 1 of the following:		
Economics		
PH.318.603	Applied Microeconomics for Policymaking	3
Environmental Health Risk		
PH.317.600	Introduction to the Risk Sciences and Public Policy	4
PH.317.605	Methods in Quantitative Risk Assessment	4
PH.317.610	Risk Policy, Management and Communication	3
Energy Systems		
EN.520.627	Photovoltaics and Energy Devices	3
EN.540.630	Thermodynamics & Statistical Mechanics	3
AS.425.604	Energy & Climate Finance	3
AS.425.601	Principles and Applications of Energy Technology	3
AS.425.625	Solar Energy:Science, Technology & Policy	3
SA.500.112	Global Electricity Markets	4
SA.500.130	The Water, Energy and Food Nexus	4
Methods		
EN.553.613	Applied Statistics & Data Analysis I	4
EN.553.642	Investment Science	4
EN.553.661	Optimization in Finance	4
EN.560.618	Introduction to Uncertainty Quantification	3
The remaining courses will be a research project or electives that are appropriate to the student's goals and approved by a faculty advisor. The remaining electives can be engineering courses ("EN"), arts and sciences courses ("AS"), or public health courses ("PH").		
EN.575.711	Climate Change and Global Environmental Sustainability	3
EN.575.722	Principles of Air Quality Management	3
EN.575.723	Environmental Sustainability and Next Generation Buildings	3
EN.575.732	Energy Technologies for Solving Environmental Challenges	3
EN.575.733	Energy and the Environment	3
EN.575.736	Designing for Sustainability: Applying a Decision Framework	3
EN.575.738	Transportation, Innovation, and Climate Change	3

Self-Designed Track

Student who choose this option can design a curriculum that fits their goals, subject to the general M.S.E. degree requirements described at the beginning of this page. All courses must be approved by the student's faculty advisor and can be engineering courses ("EN"), arts and sciences courses ("AS"), or public health courses ("PH"). In addition, students interested in this track should notify the department's academic coordinator during the first semester and should send a preliminary, proposed list of courses that has been approved by that student's faculty advisor.

Students are expected to adhere to all university policies. These policies include those related to grade requirements, registration, academic progress, deadlines, satisfactory completion of exams, and academic integrity, non-academic conduct, and research ethics. Students who fail to follow or meet the established policies may be subject to dismissal. Below is a sample of critical policies for reference:

CODE OF CONDUCT

The fundamental purpose of the Johns Hopkins University's (the "University" or "JHU") regulation of student conduct is to promote and to protect the health, safety, welfare, property, and rights of all members of the University community as well as to promote the orderly operation of

the University and to safeguard its property and facilities. As members of the University community, students accept certain responsibilities which support the educational mission and create an environment in which all students are afforded the same opportunity to succeed academically.

Allegations of sexual misconduct are covered by JHU's Sexual Misconduct Policy and Procedures (https://oie.jhu.edu/sexual-misconduct/) for faculty, staff, and students. The University encourages individuals to report incidents of sexual misconduct and provides a variety of avenues, both formal and informal, by which individuals can report complaints of sexual harassment. Allegations of sexual harassment by students are covered under the JHU program and under the Student Conduct Code. (https://studentaffairs.jhu.edu/policies-guidelines/student-code/)

All members of the Johns Hopkins community are responsible for immediately informing Engineering Student Affairs (https://engineering.jhu.edu/studentaffairs/) of any suspected violations of the non-academic Code of Conduct; and to immediately inform the WSE Office of Graduate Education and Lifelong Learning of any suspected academic/research integrity violations. (christinekavanagh@jhu.edu)Specific policy links can be located here. (https://homewoodgrad.jhu.edu/academics/policies/) The faculty and students at the Whiting School of Engineering have the joint responsibility for maintaining academic integrity and guaranteeing the high standard of conduct of this institution.

Students enrolled in the Whiting School of Engineering assume an obligation to conduct themselves appropriately to The Johns Hopkins University's mission as an institution of higher education. A student is obligated to refrain from acts which he or she knows, or under the circumstances has reason to know, impair the academic integrity of the University. Allegations of violations of academic and research integrity by WSE students are covered under the policies and procedures contained in the General Academic Misconduct Policy and the General Misconduct Policy (https://provost.jhu.edu/wp-content/uploads/2018/08/Homewood-WSE_KSAS_-WSE-EP_KSAS-AAP-Graduate-Academic-Misconduct-Policy-2018SU.pdf).

Personal Relationships

The Johns Hopkins University is committed to the personal, academic, and professional well-being and development of its students, trainees, faculty, staff, postdoctoral fellows, clinical residents, and all other members of the University community. The University seeks to maintain an atmosphere of mutual respect, collegiality, fairness, and trust. The Personal Relationships (https://policies.jhu.edu/doc/fetch.cfm/HVZArki5/)Policy (https://policies.jhu.edu/doc/fetch.cfm/HVZArki5/) implements the University's commitment to maintaining the integrity of its educational and working environment. This policy focuses on the conflict of interest that may exist when individuals simultaneously engage in both personal and professional relationships in which one individual has the potential to exert substantial academic or professional influence over the other.

GRADE REQUIREMENTS

EHE WSE master's students can use up to two C's (C-, C, or C+) toward their degree program requirements. A course graded D+ or lower can not be used toward graduation requirements. A student not meeting academic minimum requirements may be placed on academic probation.

LEAVE OF ABSENCE

Policy Statement

The Johns Hopkins University ("University" or "JHU") is committed to maintaining a welcoming, inclusive, and caring environment for all students. The University grants or requires a leave of absence under appropriate circumstances to support students' necessary time away for medical, service, hardship, or academic reasons. The Office of the Provost provides leadership and support to University officials acting under this Student Leave of Absence Policy's (the "Policy") procedures and related divisional procedures, including consulting with and providing guidance to deans and their designees, registrars, and others to support consistent and fair application of this Policy across the University.

The University complies with the Americans with Disabilities Act ("ADA") and Section 504 of the Rehabilitation Act of 1973 which afford protection from discrimination for otherwise qualified students with disabilities. The University will engage in an interactive, individualized process with each Covered Student to determine if there are any adjustments that can be made in accordance with the ADA and Section 504.

Full Policy

The full policy (https://policies.jhu.edu/doc/fetch.cfm/TBlXLPii/) can be found in the JHU Policy and Document Library.

How to File for Permission to Take a Leave of Absence

Graduate Students in WSE must schedule a consultation with the Office of Engineering Student Support and Advocacy (https://engineering.jhu.edu/studentaffairs/navigatingnonacademicissues/) prior to submitting their LOA application. International students must contact OIS before filing for LOA. Additional information regarding the process for Graduate Students requesting a LOA can be found on the WSE (https://engineering.jhu.edu/studentaffairs/navigatingnonacademicissues/leavesofabsence/) webpages.

Note that PhD students wishing to file for a leave from their *work* (non-academic/degree-related) appointments should consult the PhD Union Collective Bargaining Agreement (https://provost.jhu.edu/wp-content/uploads/2024/06/TRU-UE-Local-197-Johns-Hopkins-University-Contract-2024-2027-SIGNED.pdf)for more information on types of leaves available.

If it becomes necessary to take a break from studies, students should contact their advisor and academic program manager to determine if a formal leave of absence (LOA) is necessary. Any request for change of status must be discussed with the program or track director(s) and academic program manager and approved by the department and school. For more information, please see:

PARENTAL ACCOMODATIONS

Please see the university page on parental accommodations (https://e-catalogue.jhu.edu/university-wide-policies-information/rights-privileges-responsibilities/new-child-accommodations-full-time-graduate-students-postdoctoral-trainees/) for full-time graduate students and post-doctoral fellows.

ACADEMIC GRIEVANCE POLICY: STUDENTS AND POSTDOCTORAL FELLOWS

Policy Statement

Johns Hopkins University seeks to provide a supportive educational, training, and professional environment. The University provides several avenues of redress for students and postdoctoral fellows who believe they have been adversely affected in their professional or educational activities as a result of an arbitrary or capricious act, or failure to act, or a violation of a University, division, school, or center procedure or regulation by their supervisor, department chair, center director, or other administrator or administrative body. The University encourages individuals involved in such disputes to resolve the matter informally. This Policy is only to be used to resolve serious matters which meet the definition of a "grievable" matter and cannot be resolved through informal discussions or processes, and is only to be applied after reasonable efforts have been made to settle the dispute informally.

Review the full policy (https://policies.jhu.edu/doc/fetch.cfm/pYwNZVAg/) in the JHU Policy and Document Library.

What is a Grievable Matter

· A "grievable" matter is a complaint that a Grievant has been directly and adversely affected in his/ her education, training, or professional activities as a result of an arbitrary and capricious act, or failure to act, or a violation of University or School policy or procedure by the University, School, or anyone acting officially on behalf of the University or School, other than the matters exempted below.

· A matter is considered grievable under this policy only if the nature of the complaint is not covered by any other established University or Division policy or procedure.

A student who has a concern about an academic decision or act of a faculty, staff member, or student of the Department of Environmental Health and Engineering, should follow the steps outlined below:

First, Attempt to Resolve Informally Through Local Channels

1. The student should first approach the person or parties (e.g., academic advisor, related office, etc.) directly involved as soon as possible to discuss questions or concerns. If they are not comfortable with this, they may elect to contact the program for assistance first. Additionally the WSE Office of Engineering Student Support and Advocacy (https://engineering.jhu.edu/studentaffairs/navigatingnonacademicissues/) can offer non-clinical, non-academic support to talk through options and steps. For PhD Students, they may elect to reach out to the university's PhD and postdoctoral ombuds office (https://ombuds.jhu.edu/).

2. If the issue or concern is not resolved at the first level the student is encouraged to contact the program for assistance. A written request for problem resolution is requested at this stage. This request should include specific details about the problem, documentation if appropriate, and a suggestion for resolution.

3. If no resolution can be found in prior steps, the matter will be referred to a Grievance Arbitration sub-Committee within the EPC, who will address the problem as they deem necessary, and make a recommendation to the Department Chair.

If an Informal Resolution is Not Possible, Consider Filing a Formal Academic Grievance

If the matter is not resolved within the Department or requires review and/or decision at the School or University level, a student may refer to the university's academic grievance policy above for next steps.

TRANSFER CREDITS

Standard WSE policy and limitations on MS transfer credits apply (https://engineering.jhu.edu/graduate-studies/academic-policies-procedures-graduate/). In addition, use of each transfer course toward satisfaction of a specific degree requirement must be approved in writing by the student's advisor.

Resources

HEALTH AND WELL-BEING

Johns Hopkins University is committed to helping you thrive personally and professionally and providing an environment that supports your health and well-being. We encourage you to seek support from the following JHU resources, particularly if you are experiencing anxiety, stress, depression, or other concerns related to your health and well-being.

The Office of Graduate Education and Lifelong Learning (GELL) serves the master's, doctoral, and postdoctoral communities of WSE and provides the support, resources, and information students need to succeed at the Whiting School.

To make an appointment to discuss a personal or academic challenge, please reach out to the Office of Engineering Student Support and Advocacy (https://engineering.jhu.edu/studentaffairs/navigatingnonacademicissues/), an office within GELL. Additional resources are available through the university Mental Health Services (https://wellbeing.jhu.edu/MentalHealthServices/). PhD students may choose to reach out to the university's PhD and Postdoctoral Fellows ombuds office (https://ombuds.jhu.edu/) as well for support.

If you are feeling overwhelmed and stress is impacting your mental health, you may contact Mental and Health Services for safe and confidential services. Students have a wide variety of services available, including workshops, group therapy, medication management, psychiatric assessment, and 24/7 crisis intervention services. All counseling services are offered free of charge to students. Please contact the university mental health services at 410-516-8278. To reach an after- hours on-call counselor, call 410-516-8278 and press "1".

WSE students can seek medical attention and health care services through the Student Health and Wellness Center (https://wellbeing.jhu.edu/PrimaryCare/). Services include acute and chronic illness care, alcohol and other drug problem assessments, allergy injections, international travel consults and immunizations, physical exams, and routine immunizations. Please contact the center at 410-516-8270.

CAREER DEVELOPMENT RESOURCES

The JHU Life Design Lab (LDL) (https://imagine.jhu.edu/channels/life-design-lab/) provides professional development and career services to master's students. LDL offers workshops, events, content, and drop-in office hours to help students through education, access to opportunities, and experiences to intentionally design your life on-campus and beyond.

DISABILITY SERVICES

Graduate students and learners with disabilities are served either by Homewood Student Disability Services (https://studentaffairs.jhu.edu/disabilities/) or the WSE Student Disability Coordinator. Visit the Disability Services (https://engineering.jhu.edu/studentaffairs/academic-resources-and-policies/disability-

services/) page to find more information and how to request accommodations.

TRAVEL RESOURCES

Students should check the university's Travel Resources page (https://travel.ssc.jhu.edu/).

Students are not obligated to travel internationally, and each student has the right to decline to travel abroad. If the student is supported by a research project that requires such travel and the student chooses not to travel, the student may be removed from that project following discussions with the principal investigator and the EHE program or track directors.

Graduate students who decide to travel abroad must demonstrate that they understand and voluntarily accept the risks inherent in international travel. To do so, students must first receive the appropriate departmental approvals for the trip through their advisor and program or track director(s). Students should also evaluate options for registering travel and obtaining pre-travel immunizations through the school or health care system. All JHU affiliates (notably in this section- students) traveling outside the US to conduct JHU university work/academic activity/on university payroll must receive prior vetting, guidance, and approval from JHU export control, the university's tax and global HR offices, as well as the dean's office, so they understand any restrictions/concerns/adjustments to appointments and/or payroll/allowed activities in advance. Students should contact their academic staff and advisor for more information and the request process.

Immunizations

Students traveling outside the US are strongly encouraged to contact their health care provider or the Johns Hopkins International Travel clinic in advance of the travel to learn about recommended immunizations and other matters to guard their health. Located on the East Baltimore campus, you can reach the International Travel Clinic (https://globalhealth.jhu.edu/) by telephone at 410-955- 8931. Students should double check their insurance coverage prior to securing vaccinations/examinations/prophylactics to understand coverage and potential costs.

Stay Informed

Students are encouraged to vigilantly monitor consular and press reports regarding the country (or countries) where they plan to travel. Students may also check the consular reports of countries friendly to the U.S. (e.g., Australia (https://www.smartraveller.gov.au/destinations/), Canada (https://travel.gc.ca/travelling/advisories/), United Kingdom (https://www.gov.uk/foreign-travel-advice/)) as well as reports from other international agencies (e.g., United Nations). Students should participate in the security briefings offered by other organizations with whom they may be working.

Maintain Communication

When traveling in an area where regular communication is difficult, students are encouraged to maintain contact with their advisor and/or the academic program manager.

State Department Registration

For students who are likely to stay for a prolonged period in a high-risk area of the world, registration at the U.S. embassy or consulate is essential.

International Students

OIS may be contacted at 410-955-3371. International students must contact the Office of International Services (OIS) well in advance of any travel to avoid compliance issues with their visa status.

Healix International

Johns Hopkins has implemented a comprehensive travel assistance program supported by Healix International. For more information visit the International Travel for the University & Health System (https://risk.ssc.jhu.edu/international-travel/) page.