APPLICATION PROCESS

Application Process for the Summer@HU Program and for the Ambassadors Scholarship Program

• All students should apply online through this link: http://global.HarrisburgU.edu/india-application
• Admitted students are required to make an initial non-refundable deposit of $100
• Visa: International students are responsible for obtaining appropriate visa to enter the US.

FOR MORE INFORMATION OR ASSISTANCE

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A copy of HU’s Annual Security Report, which reflects the current status and historical data of campus security and safety, is available at: http://HarrisburgU.edu/lib/pdf/annual-security-report-clery-report.pdf. You may request a paper copy of this report by contacting HU at Connect@HarrisburgU.edu.

Harrisburg University of Science and Technology is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104. (267-284-5000) The Middle States Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation.

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Students in this 4-week program will enroll and study in a Masters Level graduate course. Students are expected to be present on HU campus from 9am to 4pm every day of the program, except weekends. Classes meet for three hours daily, and are scheduled during the morning, early afternoon, and late afternoon. In addition, the graduate level course requires up to three hours of daily out-of-class homework assignments—reading, writing, group work, and working on projects and assignments. This time also includes scheduled meetings with your instructor or course Teaching Assistant. Site visits, excursions, labs, or hands-on projects will be included, all of which broaden the student learning experience.

Harrisburg University offers a summer study abroad program for international students during summer of 2019. This program combines a high quality academic offering with an immersion experience that includes visits to start-ups, tech industry and health care businesses as well as participation in cultural events.

**OVERVIEW**

Students will attend a seminar series hosted by HU faculty where they will explore trending topics in technology, and learn about Harrisburg University’s different graduate programs and the research interests of faculty.

Along with a robust co-curricular program and a supervised residential experience, Summer@HU is designed to help prepare students for the self-discipline and independence required for graduate school life and learning.

Outside of class, students experience the independence and responsibility of life on a US campus. They meet fellow students from around the world and attend events, workshops, and social activities designed to engage them with peers in fun and enlightening activities and to prepare them for college life and learning.
For the duration of their stay, students will live in housing, arranged by the University that is located very close to campus. Program staff and trained Residential Advisors (RAs), who live onsite will help create a balanced academic and social life.

**CONDENSED SEMESTERS** | Summer@HU is a shortened version of a college semester, but students will experience a real classroom. They will interact with professors, classmates and a roommates. This experience will build confidence in graduate study in the US.

**OUTSIDE OF THE CLASSROOM** | Summer@HU is a great social opportunity in addition to the academics. There are weekend events organized for the students so they can explore the city in an exciting, but supervised atmosphere. Students have the opportunity to meet others from all over the country and the world. Bonds between classmates and roommates are typically strong and long lasting. Current regular events at the International House include cultural presentations by local and international leaders, international holiday celebrations, international dances, monthly dinners and monthly movies. Weekly and monthly activities, social programs and trips are planned by the staff to help you to get to know the other residents and discover the region. Holiday parties, dinner parties and excursions to area attractions are just a few of the options. Residents are encouraged to share their heritage through special events planned in conjunction with staff.

**360 TAKEAWAYS** | Students will gain so much from their experience in Summer@HU programs. They’ll be challenged, but they’ll also gain confidence from their new independence and will feel a sense of accomplishment having completed four weeks of real graduate-level coursework. We will truly strive to make HU your “home” for the summer. Our sincere hope is that you find your summer college experience challenging and fun, exploring all that HU and Harrisburg have to offer.
Harrisburg University’s education programs focuses on individualized career advancement in high-growth and high-demand areas of study within science, technology, engineering, management, and mathematics disciplines. This is accomplished by making certain that each student is completely engaged to gain knowledge at an advanced level, is able to specialize or generalize knowledge and skills according to needs and interests, and applies what is learned and researched to both practical and professional experience.

The University’s approach is based on an experiential model that allows the student to gain and apply knowledge and skills at an advanced level and to focus on an area of need or interest particular to the student. Faculty combine corporate and academic perspectives in the design, development, and delivery of graduate programs and courses. Each course has multiple applied projects, and each degree has a practicum requirement of all students.

THE 2019 SUMMER@HU PROGRAM WILL OFFER TWO TRACKS

**TRACK I | Biosensors Biomedical Devices and Prototyping**

Biosensors are defined in different ways, but all of the definitions recognize that any biosensor involves a sensor and an analyte or chemical that is determined in an analytical procedure. In blood glucose monitoring, for instance, the analyte reacts with the glucose in the blood.

During the past five years, biosensors have penetrated diverse markets. Research and development institutions, universities, and various industrial sectors have developed, through their research efforts, newer biosensors that can provide highly accurate, sensitive, pain-free diagnostics. These biosensor developments have resulted in increasing adoption of biosensors into the environmental, process industry, security, and biodefense application markets.

The U.S. biosensors market size holds 81% of regional revenue share in 2015, attributed to increasing prevalence of diseases such as diabetes and cardiac disorders and early adoption of technologically advanced products by the clinicians, scientists.

**Course Details**
The course goal is to familiarize students with basic principles of biosensors design and applications. Biomedical devices such as Biosensors are one of the most innovative, complex, and fast-growing area of biotechnology today—the interface between biotechnology, nanotechnology and micro-electronics industries. The course covers a variety of biosensors based on whole cells, nucleic acids, proteins, antibodies and enzymes as well as new and emerging technologies related to designing, fabricating, and applying multi-array biochips and micro-fluidic systems (lab-on-the-chip). The course will then cover practical applications of this technology in healthcare, environment, medical diagnostics, defense and other areas.

**TRACK II | Applied Artificial Intelligence**

AI is a constellation of technologies that allow smart machines to extend human capabilities by sensing, comprehending, acting and learning—thereby allowing people to achieve much more. These technologies include natural language processing, intelligent agents, computer vision, machine learning, expert systems, autonomous cars, chatbots and voice recognition.

- According to IDC, the AI market, will grow to US $9.2 billion in 2019.
- Up to 85% of business and IT executives anticipate making extensive investments in one or more AI-related technologies over the next three years.
- According to Accenture, companies will apply AI technologies to transform business in ways not seen since the Industrial Revolution, fundamentally reinventing how they run, compete and thrive. Implemented responsibly, people will use AI to amplify human existence and improve how we live and work.

**Course Details**
Artificial Intelligence (AI) is an enormous topic. Although it still generally viewed as a single field, subfields like Machine Learning, Robotics, Data Mining, Business Intelligence, Analytics, Knowledge Representation, and Planning have developed distinct identities over time. With the explosion of data, these areas are focused on solving problems in almost every discipline. The underlying philosophy of all these systems, which creates the magic of AI is to create systems that learn from experience, just as human do. This course will introduce the student to Artificial Intelligence. It is a hands-on, project-based course that is designed to equip the students with the required knowledge to understand, analyze, and design smart systems. Programming projects include building Classifiers, Regressors, Recommenders, Path Finders, and Game Systems.