



SUMMER @HU 2020 INTERNATIONAL HIGH SCHOOL PROGRAMS

Projects in Emerging
Technology for
High School Students

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SUMMER @HU 2020

INTERNATIONAL HIGH SCHOOL PROGRAMS



Welcome to Summer@HU International High School Programs 2020

Step into the fast-paced world of emerging technologies and combine the latest advances in science and technology with hands on practical training. As a **Summer@HU 2020:** International High School student, you will work in a team on a real-world project that combines new science, new technologies and new techniques to solve new problems.

Summer@HU 2020 will offer
the following courses.

June 15 - 26, 2020

Advanced Medical Biotechnologies | 1 Credit

3D Printing for Medical Applications | 1 Credit

LOGISTICS

Each camp is two weeks in duration. Each course must have 10 students enrolled in order to run. Each camp is capped at 24 students.

- Program cost for the two-week session is: \$2800
- This cost includes tuition, accommodation and food. Students should fly in and out of Philadelphia airport. They will be picked up and dropped off to this airport only.
- A Certificate of Participation will be awarded upon completion.
- For every cohort of 10 students, one faculty chaperon must be assigned. This faculty will qualify complimentary stay (housing and food) for the duration of the program (a minimum 10 student team).
- In addition to on-campus work, previous groups have attended local sporting events, visited an amusement park, the State Capital and visited local historic destinations.
- Since Harrisburg is in close driving distance to Washington D.C. a trip may be arranged for both cultural and educational enrichment. (additional cost per student)



ACADEMICS

The Summer Technology Program offers two very cutting-edge experiences for high schoolers who are looking for immersion in the latest science and technologies. Harrisburg University's education programs focus on individualized career advancement in high-growth and high-demand Biotechnology areas of study within science and technology disciplines. This is accomplished by making certain that each student is completely engaged to gain knowledge, can specialize or generalize knowledge and skills according to needs and interests and applies what is learned and researched to both practical and professional experience.

Summer Technology Program camps are shortened versions of college courses, but students will experience a real classroom. They will interact with professors as well as classmates and gain confidence in studying in the US.

Experiential and Hands-on Learning at HU is more than book learning. Expect to spend time in labs, running experiments - Its learning by doing.

Expect to spend the whole day in learning activities!



RESIDENCE LIFE

Students will live in accommodation, arranged by the university that is located with 5 minutes walking distance to the campus. Trained Residential Advisors (RA's), will be available to help solve any concerns, balance the academic and social activities.

Food | Very important for hungry teenagers! The tuition includes three meals a day, with vegetarian options available.

Campus Life | Maybe more important than even the food, we have you covered here. Science and Technology stars in this summer camp program. Along with a robust co-curricular program and a supervised residential experience, our Summer Technology Programs are designed to help prepare students for the self-discipline and independence required for college life and learning.

Weekend events are organized for the students so they can explore the city in an exciting, but supervised atmosphere.

360 TAKEAWAYS

Students will gain so much from their HU experience. They will be challenged, but they also gain confidence from their new independence and will feel a sense of accomplishment having completed two weeks of real college-level coursework. We will truly strive to make HU their "home" for the summer. We hope they find their summer college experience challenging and fun, exploring all that HU and Harrisburg have to offer.

June 15 - 26, 2020

Advanced Medical Biotechnologies | 1 Credit

Did you ever wonder how doctors diagnose Strep throat in minutes with a swab sample? How the antibiotics you swallow work to treat infections? How can a drop of blood help diabetic patients to monitor their disease? Healthcare is revolutionized due to new biomedical technologies. There are rapidly changing diagnostics for infectious diseases. Novel methods for diagnostics and medical imaging now allow detection of cancer in very early stages, even before the symptoms appear. Biomedical devices such as blood glucose monitoring systems or insulin patches have helped millions. Prosthetics and other biomedical devices are being redefined with new looks and mind-boggling functionalities. Pharma companies are buzzing with development of new drugs, novel drug packaging, targeted drug delivery, and so on. Regenerative medicine and tissue engineering are making significant progress as well.

If you are interested in making a career in healthcare, whether in medicine, pharma or any healthcare-allied fields such as biomedical devices or instrumentation, then this summer course is something you do not want to miss.

3D Printing for Medical Applications | 1 Credit

The biomedical industry is a multi-billion-dollar market and is growing significantly, hence offers many future career opportunities. In recent years, use of 3D printing and Bioprinting technology has been a hot topic for improved healthcare. 3D printing has already established its use in creating medical models for surgical planning and functional prosthetic devices for a personalized fit. Additionally, its application for bioprinting (printing fully functioning organs/implants) has been successful for several cases. In this introductory course, students will explore emerging careers in biomedical industry, with a focus on 3D printing, and its current/future applications. They will get hands-on experience in several aspects of 3D printing basics with focus on biomedical applications. If you are creative and like innovation, this will be your chance to explore this fast-growing topic in biomedical field that is going to shape the modern approach to healthcare.

ELIGIBILITY

1. GPA: Students need to demonstrate a GPA of at least 2.75/4
2. Teacher recommendation: Students will not be considered without a teacher recommendation.
4. Skype Interview: All students need to participate in a Skype interview.

All admission decisions will be made by the faculty and staff of HU.



NEXT STEPS

Faculty and school administrators are welcome to email me with their questions: LPattarkine@HarrisburgU.edu

Visa | Students are responsible for obtaining their own visa. Harrisburg University will provide a letter for the Consulate.

Apply Now!

<https://forms.gle/XtVQZjyxoQtuQGC2A>

