

SUMMER SPRINGBOARD
Look Inward. Go Upward.

Physics + Quantum Computing Infosheet

New student admissions for Summer 2027 are open.

2-Week Course

This is a two-week program where you'll focus on one course for the entire duration.

Program Highlights

- Learn accessible, yet challenging, introductory material in the fields of physics & quantum computing.
- Cover topics such as quantum mechanics, quantum information science and computation, and quantum hardware.
- Discover why having a foundational understanding of quantum computing will be important to politicians, public health researchers, and quantum engineers.
- Develop skills in quantum computing - the technology of the future!

2027 Dates

Berkeley ($6,298)

- Session 2: June 20 - July 2
- Session 4: July 5 - July 17*
- Session 6: July 18 - July 30

Georgetown ($5,798)

- Session 1: June 20 - July 02

UC Santa Barbara ($5,798)

- Session 1: July 18 - July 30

*Sessions starting July 5th will start on Monday, not Sunday (due to the holiday). During the first week, classes meet Tuesday through Friday, followed by Monday through Friday in week two.

Academic Program Overview

Quantum computing is going to revolutionize the field of technology over the next decade. What is quantum computing? It is a rapidly-emerging technology that harnesses the laws of quantum mechanics to solve problems that are too complex for classical computers. The tools being used in this field were just imagination three decades ago. Superconducting quantum processors are being designed to build superconducting quantum processors that will supply quantum computing speed and capacity that will change the world. This program will help prepare the next generation of students with the quantum knowledge and skills. The program will introduce key quantum computing concepts, like superposition and entanglement. Students will also explore quantum phenomena and applications. They will learn from curriculum designed by leading experts in academia and the quantum computing industry.

Excursions

In Berkeley, students have visited Rigetti Computing, SLAC National Accelerator Lab, and heard from top Sr. Software Engineer from Google Quantum AI. They also toured the Haeffner Trapped Ion Lab in Berkeley to meet with post graduate researchers in the field.

In Georgetown, students visited IonQ and the Joint Quantum Institute (JQI), toured a training reactor lab, and explored several cutting-edge research spaces including the Kollár Superconducting Circuits Lab, Rolston Neutral Atoms Lab, and Afezi Light-Matter Lab.

Instructors

Berkeley - Anastasia Perry (Session 2)

Anastasia teaches Physics at Illinois Mathematics and Science Academy (IMSA). The courses she teaches include Scientific Inquiries in Physics, Physics: Sound and Light, Calculus Based Mechanics and Calculus Based E&M, and Modern Physics. She previously taught undergraduate physics courses at Rutgers University and Lewis University. She earned her M.S. in Physics from Kyiv University in Ukraine and M.A. in Secondary Education from Lewis University.

Berkeley - Ryan Larose, Ph.D. (Sessions 4 & 6)

Ryan is an Assistant Professor in the Center for Quantum Computing, Science, and Engineering at Michigan State University, previously a Postdoctoral Scientist in the Computational Quantum Science Laboratory at EPFL in Switzerland. During his PhD, he conducted research and software development in quantum computing at Google Quantum AI, Alphabet X, NASA, and IBM.

Georgetown - Mark Hannum

Mark Hannum holds an MS in Applied and Engineering Physics from George Mason University and a BA in Mathematics and Physics. An accomplished educator and physicist with over 20 years of experience, he currently directs the Quantum Information and Optics Research Program at Thomas Jefferson High School for Science and Technology (TJHSST) and has been instrumental in expanding access to quantum education nationwide as a former Albert Einstein Distinguished Fellow and K-12 Program Manager at the American Association of Physics Teachers.

Tuition Information:

Apply by November 30 to lock in the lowest prices of the year. Tuition increases on December 1.

Residential Students:

- **Includes:** all meals, lodging, excursions, academic course, weekend excursions
- **Excludes**: optional airport pickup and drop off service (available for an additional fee)
- **Price**: See prices under 2027 dates.

Commuter Students:

- **Includes:** lunch, academic course, excursions, programming from 9am to 5:15pm, Monday-Friday
- **Excludes:** lodging, breakfast, dinner, weekend excursions
  - Weekend excursions can be added on for $125 per day
- **Price**: $3,298 at Berkeley, $2,998 at Georgetown, and $3,298 at UC Santa Barbara

Supplements:

- **Application fee**: Starting at $99 (mandatory, non-refundable)
- **Tuition Protection Plan**: Allows for cancellation for any reason up until the day of the program. Click here for more info.

Course Structure

There are nine 3-hour class sessions over the two-week course. During week one, students have class from 9am-12pm Monday - Friday. During week two, students have class from 9am-12pm Monday through Thursday. Afternoons in both weeks are dedicated to students' preferred College Readiness Workshops (CRW), True You, and Academics in Action, with Academics in Action including academic excursions, guest speakers, and course-related activities, such as an instructor-led project or student-led, independent study.

Typical Schedule

8AM	Breakfast
9AM	Academic Course / Commuter Student Arrival
12PM	Lunch
1:30PM	Academics in Action or Recreational Activity
3:30PM	CRWs, True You, or Academics in Action
5-5:15PM	Commuter Student Departure
6PM	Dinner
7PM	Clubs
10:30PM	Night Checks

Schedule above is a sampler; real schedules may vary based on program and academic track.

More info on Airport Transfer

More info on Unaccompanied Minor Service

Apply Now!

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