Learn Quantum Computing

qBraid High School summer course

Course description:

This course is a fun introduction to quantum computing. It aims to rigorously cover the minimal math background necessary to understand several fascinating topics in quantum computing.

Who is the course aimed at:

Juniors and seniors in high school interested in math and science, with at least a high school Algebra background (No Calculus needed).

In collaboration with several universities

Quantum Computing (QC) startup qBraid is partnering with Quantum Computing undergraduate clubs at UC Berkeley, UC Irvine, MIT, Yale, and more, to teach high school students the basics of QC. The class will run for 12 weeks during the summer, meeting once a week over zoom, outside of school hours. No computing or physics background is required. **The only prerequisites are high school Algebra, access to the internet, and curiosity about quantum computing. THE COURSE IS FREE.**

You will earn a certificate upon completion of the course.

Details

When (Tentatively):

Mid June - End of August 2021
Live lecture once a week + office hour

Where: All remote

What you will learn:

- Basics of quantum mechanics, linear algebra and classical computing
- Qubits, quantum gates, and programming quantum algorithms
- Superposition, interference, and entanglement.
- Some simple and fascinating phenomena in quantum computing.

To register: Create an account at https://qbraid.com, navigate to Upcoming Events, and fill in the form for the *qBraid Quantum Computing High School summer course*.