

Summer 2024

**3 elective credits may be earned towards your major
(discuss with your department Chair)**

CSCI 420 Applied Quantum Computing for Computer Scientists

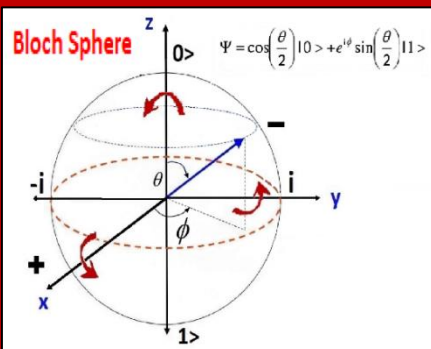
1st offering: 06/03/2024 - 06/25/2024 MTWR 8:00am – 11:25am

2nd offering: 07/22/2024 - 08/13/2024 MTWR 8:00am – 11:25am

Course will be delivered ONLINE via Zoom

Quantum computing is an emerging technology that has the potential of solving complex problems by using a new computing paradigm. This course introduces the practice of quantum computation and algorithms, in computer science. Topics covered include the mathematics to understand the relationship between physical systems and quantum computation. A diverse set of algorithms are covered including Grover's Search Algorithm, quantum error correction, and quantum cryptography. Students will develop their code on a quantum computer. Includes a lab section.

**Prerequisites can be articulated for enrollment approval by emailing instructor Dr. Jaime Raigoza
jraigoza@csuchico.edu and/or if you have any questions.**



**California State University, Chico
Department of Energy RENEW Grant**

**Tuition scholarship application and
enrollment details are available here:**

<https://forms.gle/bDcUYgqkrzmKCfyj7>

