

Requirements	Hours
REQUIRED COURSEWORK	
Six hours selected from the following courses: Computer Science: 309.1 Quantum Computing I 378.1 Quantum Computing II 358H Intro to Quantum Information Sci: Honors	6
Twelve hours selected from among the following supplementary courses: Physics: 373 Quantum Physics I: Foundations 362K Quantum Physics II: Atoms & Molecules Computer Science: 331 or 331H Algorithms & Complexity/Honors 358H Intro to Quantum Information Sci: Honors Mathematics: 340L Matrices & Matrix Calculations or 341 Linear Algebra & Matrix Theory or SDS 329C Practical Linear Algebra I 346 Applied Linear Algebra Independent Research Project. This may be taken, for example as one of the following courses: ¹ PHY 371C Individual Study in Physics C S 370 Undergraduate Reading & Research M 375C Conference Course (Computer-Assisted) <i>Please Note: C S 358H Introduction to Quantum Information Science: Honors may only be counted toward one of the certificate requirements. With the approval of the certificate program faculty, other appropriate courses may be counted toward the certificate requirements.</i>	12
¹ The student conducts independent research on some aspect of quantum information science and completes a final report describing their work. The topic must be approved by a university faculty or research staff member and will be conducted under their supervision.	

POLICIES & PROCEDURES

- Application for admission required
- Total of 18 hours required
- All coursework must be completed with a grade of C- or better
- Courses that appear in multiple approved course lists may be used to satisfy only one requirement.
- Courses under the Freshman Research Initiative (FRI) program will be open to all students, with consent of the instructor.