# QUANTUM INFORMATION TECHNOLOGY GRADUATE CERTIFICATE

## Introduction

The goal of this certificate is to better prepare students and working professionals to enter into the quantum information technology workforce and for those wanting to learn more about quantum computing and quantum technologies.

## Program Delivery

- This certificate is an on-campus program.

## Declaring This Certificate

- Students should meet with the Physics department advisor Michael "Bodhi" Rogers (michael.rogers@ucdenver.edu)

These program requirements are subject to periodic revision by the academic department, and the College of Liberal Arts and Sciences reserves the right to make exceptions and substitutions as judged necessary in individual cases. Therefore, the College strongly urges students to consult regularly with their Physics advisor to confirm the best plans of study before finalizing them.

## Certificate Requirements

1. Students must complete a minimum of 12 credit hours.
2. Students must earn a minimum grade of B (3.0) in all course applied to the certificate and must achieve a minimum cumulative certificate GPA of 3.0. All graded attempts in required and elective courses are calculated in the certificate GPA. Courses taken using P+/P/F or S/U grading cannot apply to certificate requirements.
3. Students must complete all coursework with CU Denver faculty.
4. All prerequisites for program courses must be met.
5. All requirements must be met within a five-year period

| Code | Title | Hours |
| --- | --- | --- |
| **Complete the following courses:** | | |
| PHYS 5678 | Quantum Computing | 3 |
| or ELEC 5678 | Quantum Computing | |
| PHYS 5679 | Quantum Computing Algorithms | 3 |
| or ELEC 5679 | Quantum Computing Algorithms | |
| PHYS 5680 | Quantum Computing Technology | 3 |
| or ELEC 5680 | Quantum Computing Technology | |
| PHYS 5681 | Quantum Technology Systems | 3 |
| or ELEC 5681 | Quantum Technology Systems | |
| **Total Hours** | | **12** |