QUANTUM TECHNOLOGY (MINOR)

Program Description
Quantum technology is an emerging field that has the potential to revolutionize many areas of science and technology, from computing to sensing to communication. By offering a minor in this area, we can provide our undergraduates with a unique opportunity to gain knowledge and skills in a cutting-edge and rapidly developing field, which is attractive to students looking to differentiate themselves in the job market.

Furthermore, quantum technology requires a multidisciplinary approach that involves concepts from physics, mathematics, computer science, and engineering. Offering a minor in this area can help students develop a broader understanding of these subjects and how they can be applied to real-world problems. It can also encourage collaboration between students and faculty from different departments, leading to a more diverse and innovative learning environment.

Internships
There are opportunities for students to intern in companies and laboratories in the area. Students can apply for placement in one such position upon completion of the minor.

Program Requirements
The minor requires the completion of 16-18 credits, comprised of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
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<tr>
<td>PH-U 2002</td>
<td></td>
<td>2</td>
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<tr>
<td>PH-U 2012</td>
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<td>PH-U 3613</td>
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<td>3</td>
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<td>PH-U 4553</td>
<td></td>
<td>3</td>
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<tr>
<td>Electives</td>
<td></td>
<td>6-8</td>
</tr>
</tbody>
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Select two of the following:

- CM-U 3714 Physical Chemistry I
- CS-U 3943 SPECIAL TOPICS IN COMPUTER SCIENCE
- CS-U 4783 Applied Cryptography
- CS-U 4563 Introduction to Machine Learning
- ECE-U 3054 Signals and Systems
- PH-U 3474 Introduction to Modern Optics
- PH-U 3614 COMPUTATIONAL PHYSICS
- PH-GY 5493 Physics of Nanoelectronics
- PH-GY 5553 Physics of Quantum Computing
- PH-GY 6673 QUANTUM MECHANICS I

Total Credits 16-18

Policies
NYU Policies
University-wide policies can be found on the New York University Policy pages (https://bulletins.nyu.edu/nyu/policies/).

Tandon Policies
Additional academic policies can be found on the Tandon academic policy page (https://bulletins.nyu.edu/undergraduate/engineering/academic-policies/).