



Quantum Computing

Year One					
Fall Semester			Spring Semester		
EN	1103	English Composition I	EN	1113	English Composition II
MA	1713	Calculus I	MA	1723	Calculus II
CSE	1284	Intro to Programming	CSE	1384	Intermediate Programming
DSCI	2013	Data Science Literacy	DSCI	2012	Data Wrangling Lab
PH	1001	*Intro to Physics	PH	2213	Physics I
		Social Science			

Year Two					
Fall Semester			Spring Semester		
MA	2733	Calculus III	DSCI	3012	Lab - Descr., Analysis, Inference
CSE	2813	Discrete Structures	CSE	2383	Data Structures & Analysis of Algorithms
DSCI	3013	Data Acquisition	MA	3113	Intro to Linear Algebra
PH	2223	Physics II (with lab)	PHI	1113	Intro to Logic
ST	3123	Statistical Inference	PH	3613	Modern Physics
					Creative Discovery

Year Three					
Fall Semester			Spring Semester		
DSCI	3032	Lab - Artificial Intelligence	MA	4523	Intro to Probability
CSE	4633	Artificial Intelligence	CSE	3763	Legal & Ethical Issues Computing
DSCI	3022	Data Visualization Lab	ECE/PH	4163	Foundations in Quantum Computing
		Public Speaking Course			Written Communication Course
PH	2233	Physics III (with lab)	BIS	3233	Management Information Systems
DSCI	4013	Data Visualization			

Year Four					
Fall Semester			Spring Semester		
DSCI	2022	Lab - Cloud, Quantum Computing, HPC	MA	3253	Differential Equations
PH	4413	**Thermal Physics	PH	4713	Intro to Quantum Principles
MA	2743	Calculus IV	PH	4813	**Solid State Physics
CSE	4503	Database Management Systems			Humanities
DSCI	4553	Senior Capstone One	DSCI	4663	Senior Capstone Two

****Pathway 1: Required Courses**

PH 4152 Modern Physics Lab

PH 4143 Intermed Laboratory

****Pathway 2: Choose 2 courses from the following list:**

PH 3063 Astrophysics

PH 4413 Thermal Physics

PH 4813 Solid State Physics

PH 4323 Electomag Fields I

PH 4213 Intermediate Mechanics I

PH 1063 Descriptive Astronomy

PH 4113 Electric Circuit Science

PH 4433 Computational Physics

PH 4513 Optics

PH 4613 Nuclear Particle Physics

PH 4723 App of Quantum Mech

PH 4990 Special Topics