APPLIED PHYSICS

Updated April 2022

PHYS 1001
Foundations of Physics I

PHYS 1002
Foundations of Physics II

MATH 1104
Linear Algebra

MATH 1005
Differential Equations and Infinite Series

PHYS 2401
Thermal Physics

PHYS 2604
Modern Physics I

PHYS 2202
Wave Motion and Optics

PHYS 2305
Electricity and Magnetism

PHYS 2004
Multivariable Calculus for Engineering or Physics

PHYS 3705
Mathematical Methods I

PHYS 3007
Third Year Physics Laboratory

PHYS 3802
Advanced Dynamics

PHYS 3807
Mathematical Physics I

STAT 3502
Probability and Statistics

PHYS 4008
Fourth-Year Physics Laboratory

PHYS 4707
Introduction to Quantum Mechanics I

PHYS 4909 (full year project)
Or
PHYS 4907/4908 + PHYS 4xxx
Requires 4th year standing

Experimental Science
CHEM or BIOL or ERTH (1st course)

Experimental Science
CHEM or BIOL or ERTH (2nd course)

COMP 1005
Introduction to Computer Science I

COMP 1006
Introduction to Computer Science II

COMP 2401
Introduction to Systems Programming

PHYS 2901
Elements of Quantum Mechanics

ELEC 2501
Circuits and Signals

ELEC 2507
Electronics I

ELEC 3509, ELEC 3908, COMP 3xxx, or PHYS 4xxx

0.5 credit from the following list:
MATH 3800 or MATH 3806

1.0 credit from the following list:
PHYS 3207, PHYS 4203, PHYS 4208, PHYS 4608, or PHYS 4807

2.0 credits in Approved courses outside the faculties of Science and Engineering and Design, one of which can be NSCI 1000

Plus
1.5 credit in free electives

Note:
- Dashed connecting lines indicate concurrent prerequisite.
- Some Experimental Science, COMP, ELEC and MATH, and many elective courses are also offered in summer, which may help to reduce your course load in the Fall and Winter terms.