T H E O R E T I C A L  P H Y S I C S

FIRST YEAR
FALL
MATH 1104
Linear Algebra
PHYS 1001
Foundations of Physics I
COMP 1005
Introduction to Computer Science I
COMP 1006
Introduction to Computer Science II

WINTER
PHYS 1002
Foundations of Physics II

SECOND YEAR
FALL
MATH 2107
Linear Algebra II
(May be taken in summer or in the 2nd year)
PHYS 2401
Thermal Physics
PHYS 2604
Modern Physics I

WINTER
MATH 1004
Calculus for Engineering or Physics
PHYS 2202
Wave Motion and Optics
PHYS 2305
Electricity and Magnetism

THIRD YEAR
FALL
PHYS 3007
Third Year Physics Laboratory
PHYS 3701
Elements of Quantum Mechanics

WINTER
PHYS 3008
Electromagnetism
PHYS 3308
Modern Physics II
PHYS 3606
Modern Physics II

FOURTH YEAR
FALL
PHYS 3802
Advanced Dynamics
PHYS 3807
Mathematical Physics I
PHYS 4707
Introduction to Quantum Mechanics I
PHYS 4708
Introduction to Quantum Mechanics II

WINTER
PHYS 3809
Thermodynamics and Statistical Physics
PHYS 4708
Introduction to Quantum Mechanics II

0.5 Credit from MATH 3800 or MATH 3806
0.5 credit from COMP, MATH, or PHYS at the 2000-level or above
Plus
1.0 credit from PHYS, COMP, MATH and/or STAT at the 3000-level or above

2.0 credits in Approved courses outside the faculties of Science and Engineering and Design, one of which can be NSCI 1000
Plus
1.0 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.