Proposed Ad-Hoc Honours Physics and Computer Science (81 credits)

To continue in this Honours program, an average GPA of 3.00 in the required and complementary courses is needed as well as a passing grade of C or above in all those courses. To obtain Honours or First-Class Honours designation at graduation the standard conditions apply, that is: all required courses must be completed, in addition, for Honours, the CGPA at graduation must be at least 3.00 and for First-Class Honours, the CGPA must be above 3.50.

Required Courses (63 credits)

– COMP 206 Introduction to Software Systems
– COMP 250 Introduction to Computer Science
– COMP 252 Honours Algorithms and Data Structures
– COMP 273 Introduction to Computer Systems
– COMP 362 Honours Algorithm Design

– MATH 247 Honours Applied Linear Algebra
– MATH 248 Honours Advanced Calculus
– MATH 323 Probability
– MATH 325 Honours Ordinary Differential Equations

– PHYS 251 Honours Classical Mechanics 1
– PHYS 257 Experimental Methods 1
– PHYS 258 Experimental Methods 2
– PHYS 260 Modern Physics and Relativity
– PHYS 253 Honours Thermal Physics (title in calendar is Thermal Physics)
– PHYS 350 Honours Electricity and Magnetism
– PHYS 351 Honours Classical Mechanics 2
– PHYS 352 Honours Electromagnetic Waves
– PHYS 357 Honours Quantum Physics 1
– PHYS 362 Statistical Mechanics
– PHYS 457 Honours Quantum Physics 2
– PHYS 489 Special Project

Complementary Courses (18 credits)

15 credits selected from COMP courses at the 300-level or above (with the exception of COMP 364), with at least 6 credits at the 500-level or above.

3 credits selected from:
– PHYS 359 Honours Laboratory in Modern Physics 1
– PHYS 432 Physics of Fluids
– PHYS 434 Optics
– PHYS 514 General Relativity
– PHYS 521 Astrophysics
– PHYS 557 Nuclear Physics
– PHYS 558 Solid State Physics
– PHYS 559 Advanced Statistical Mechanics
– PHYS 562 Electromagnetic Theory
– PHYS 567 Particle Physics
– PHYS 580 Introduction to String Theory