

University Scholars Program is for BS students only

Year 1:

Fall

‡UK Core CC1 (3)

UK Core QFO (MA113: Calculus I AND MA 193: Supp.Math Workshop I) (5)

UK Core NPM (PHY 231: General Univ. Physics I) (4)

UK Core NPM (PHY 241: General Univ. Physics Lab I) (1)

CHE 105: General Chemistry I (4)

Total Credits: 17

Spring

UK Core CC2 (3)

MA 114: Calculus II AND MA 194: Supp. Math Workshop II (5)

PHY 228: Optics, Relativity and Thermal Physics (3)

CHE 107: General Chemistry II (3)

CS 115: Intro to Programming (OR 200+ Related Elective) (3)

Total Credits: 17

Year 2:

Fall

Foreign language 101 (4)

A&S NS (PHY 232: General Univ. Physics II) (4)

A&S Lab (PHY 242: General Univ. Physics Lab II) (1)

PHY 335: Data Analysis for Physicists (1)

MA 213: Calculus III (4)

Total Credits: 14

Spring

Foreign language 102 (4)

UK Core SIR (STA 210: Intro to Statistical Reasoning) (3)

MA 214: Calculus IV (3)

PHY 306: Theoretical Methods of Physics (3)

PHY 361: Principles of Modern Physics (3)

Total Credits: 16

Year 3:

Fall

Foreign language 201 (3)

UK Core ACR (3)

PHY 404G: Mechanics (3)

PHY 416G: Electricity and Magnetism I (3)

MA 322: Matrix Algebra (OR 200+ Related Elective) (3)

Total Credits: 15

Spring

Foreign language 202 (3)

UK Core HUM (3)

UK Core SSC (3)

PHY 417G: Electricity and Magnetism II (3)

AST/PHY 395, PHY 435 or PHY 508 (3)

Total Credits: 15

Year 4:**Fall**

UK Core GDY (3)

A&S SS (3)

PHY 402G: Electronic Instrumentation (OR Additional Physics Lab Requirement) (3)

PHY 520: Introduction to Quantum Mechanics (3)

◇ Elective 3

Total Credits: 15

Spring

UK Core CCC (3)

A&S HUM (PHI 200+) (3)

PHY 521: Introduction to Quantum Mechanics II (3)

PHY 535 (GCCR): Advanced Physics Laboratory (3)

◇ Elective (3)

Total Credits: 15

Year 5:**Fall**

Any PHY 500 level course PHY 5XX (3)

Any PHY 500 level course PHY 5XX (3)

Any PHY course of 600 or above PHY 6XX / PHY7XX (3)

Any PHY course of 600 or above PHY 6XX / PHY7XX (3)

Total Credits: 12

Spring

Any PHY course of 600 or above PHY 6XX / PHY7XX (3)

Any PHY course of 600 or above PHY 6XX / PHY7XX (3)

Any PHY course of 600 or above PHY 6XX / PHY7XX (3)

Oral final examination at the end of the semester

Total Credits: 9