

DIVISION OF NATURAL SCIENCES

SCHOOL OF PHYSICAL SCIENCES

Head of School: Prof Nigel Mason

School Website: www.kent.ac.uk/physical-sciences

Please refer to the online Module Catalogue for full details of all modules:

<https://www.kent.ac.uk/courses/modules>

Note: It is ultimately your responsibility to ensure that you are registered for the correct modules for your programme.

Please select a link below to view the Stage 2+ requirements for your programme:

- [Astronomy, Space Science & Astrophysics: BSc](#)
- [Astronomy, Space Science & Astrophysics: MPhys](#)
- [Astronomy, Space Science & Astrophysics with a Year Abroad: MPhys](#)
- [Astronomy, Space Science & Astrophysics with a Year in Industry: BSc](#)
- [Chemistry: BSc](#)
- [Chemistry: MChem](#)
- [Chemistry with a Year Abroad: BSc](#)
- [Chemistry with a Year in Industry: BSc](#)
- [Forensic Science: BSc](#)
- [Forensic Science: MSci](#)
- [Forensic Science with a Year in Industry: BSc](#)
- [Forensic Science with a Year Abroad: BSc](#)
- [Physics: BSc](#)
- [Physics: MPhys](#)
- [Physics with a Year Abroad: MPhys](#)
- [Physics with a Year in Industry: BSc](#)
- [Physics with Astrophysics: BSc](#)
- [Physics with Astrophysics: MPhys](#)
- [Physics with Astrophysics with a Year Abroad: MPhys](#)
- [Physics with Astrophysics with a Year in Industry: BSc](#)

The information contained herein is correct at the time of publication. Please note, however, that if a module recruits fewer than 8 students it is possible that it will not run. In this event, you will be contacted and asked to select an alternative module.

ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS**ASSA:BSC**

Single Honours

STAGE 2 - 120 credits**You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH502	Quantum Physics	15	Autumn & Spring	5	PHYS5020
PH503	Atomic Physics	15	Spring	5	PHYS5030
PH504	Electromagnetism and Optics	15	Autumn	5	PHYS5040
PH507	The Multiwavelength Universe and Exoplanets	15	Spring	5	PHYS5070
PH508	Spacecraft Design and Operations	15	Spring	5	PHYS5080
PH512	Data Analysis Techniques in Astronomy and Planetary Science	15	Spring	5	PHYS5120
PH520	Physics Laboratory A	15	Autumn	5	PHYS5200
PH588	Mathematical Techniques for Physical Sciences	15	Autumn	5	PHYS5880

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS**ASSA:BSC**

Single Honours

STAGE 3 - 120 credits**You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH603	Physics Group Project	15	Spring	6	PHYS6030
PH604	Relativity Optics and Maxwell's Equations	15	Autumn	6	PHYS6040
PH605	Thermal and Statistical Physics	15	Spring	6	PHYS6050
PH607	Stars, Galaxies and the Universe	15	Spring	6	PHYS6070
PH608	The Sun, The Earth and Mars	15	Autumn	6	PHYS6080
PH611	Numerical and Computational Methods	15	Spring	6	PHYS6110
PH617	Physics Project Laboratory	15	Autumn & Spring	6	PHYS6170
PH666	Nuclear and Particle Physics	15	Autumn	6	PHYS6660

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050

ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS**ASSA-4:MPHYS**

Single Honours

STAGE 2 - 120 credits**You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH502	Quantum Physics	15	Autumn & Spring	5	PHYS5020
PH503	Atomic Physics	15	Spring	5	PHYS5030
PH504	Electromagnetism and Optics	15	Autumn	5	PHYS5040
PH507	The Multiwavelength Universe and Exoplanets	15	Spring	5	PHYS5070
PH508	Spacecraft Design and Operations	15	Spring	5	PHYS5080
PH512	Data Analysis Techniques in Astronomy and Planetary Science	15	Spring	5	PHYS5120
PH520	Physics Laboratory A	15	Autumn	5	PHYS5200
PH588	Mathematical Techniques for Physical Sciences	15	Autumn	5	PHYS5880

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS**ASSA-4:MPHYS**

Single Honours

STAGE 3 - 120 credits**You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH604	Relativity Optics and Maxwell's Equations	15	Autumn	6	PHYS6040
PH605	Thermal and Statistical Physics	15	Spring	6	PHYS6050
PH607	Stars, Galaxies and the Universe	15	Spring	6	PHYS6070
PH608	The Sun, The Earth and Mars	15	Autumn	6	PHYS6080
PH611	Numerical and Computational Methods	15	Spring	6	PHYS6110
PH621	Analytical Mechanics	15	Autumn & Spring	6	PHYS6210
PH666	Nuclear and Particle Physics	15	Autumn	6	PHYS6660
PS700	Physical Science Research Investigation	15	Autumn & Spring	7	PSCI7000

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050

ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS**ASSA-4:MPHYS**

Single Honours

STAGE 4 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH700*	Physics Research Project	60	Autumn & Spring	7	PHYS7000
PH709	Space Astronomy and Solar System Science	15	Autumn	7	PHYS7090
PH711	Rocketry and Human Spaceflight	15	Spring	7	PHYS7110
PH712	Cosmology and Interstellar Medium	15	Spring	7	PHYS7120
PH722	Particle and Quantum Physics	15	Autumn	7	PHYS7220

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS703	Study and Employability Skills for Level 7	1 Non-Contributory	Yearlong	7	PSCI7030

ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS WITH A YEAR ABROAD

Single Honours

ASSA-A:MPHYS

STAGE 2 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH502	Quantum Physics	15	Autumn & Spring	5	PHYS5020
PH503	Atomic Physics	15	Spring	5	PHYS5030
PH504	Electromagnetism and Optics	15	Autumn	5	PHYS5040
PH507	The Multiwavelength Universe and Exoplanets	15	Spring	5	PHYS5070
PH508	Spacecraft Design and Operations	15	Spring	5	PHYS5080
PH512	Data Analysis Techniques in Astronomy and Planetary Science	15	Spring	5	PHYS5120
PH520	Physics Laboratory A	15	Autumn	5	PHYS5200
PH588	Mathematical Techniques for Physical Sciences	15	Autumn	5	PHYS5880

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS WITH A YEAR ABROAD

Single Honours

ASSA-A:MPHYS

STAGE A - 120 credits

You must take the following compulsory module (120 credits):

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH790*	Year Abroad	120	Year Long	6	PHYS7900

*Failure in this module may not be compensated.

ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS WITH A YEAR ABROAD

Single Honours

ASSA-A:MPHYS

STAGE 4 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH700*	Physics Research Project	60	Autumn & Spring	7	PHYS7000
PH709	Space Astronomy and Solar System Science	15	Autumn	7	PHYS7090
PH711	Rocketry and Human Spaceflight	15	Spring	7	PHYS7110
PH712	Cosmology and Interstellar Medium	15	Spring	7	PHYS7120
PH722	Particle and Quantum Physics	15	Autumn	7	PHYS7220

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS703	Study and Employability Skills for Level 7	1 Non-Contributory	Yearlong	7	PSCI7030

ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS WITH A YEAR IN INDUSTRY
 Single Honours **ASSA-S:BSC**

STAGE 2 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH502	Quantum Physics	15	Autumn & Spring	5	PHYS5020
PH503	Atomic Physics	15	Spring	5	PHYS5030
PH504	Electromagnetism and Optics	15	Autumn	5	PHYS5040
PH507	The Multiwavelength Universe and Exoplanets	15	Spring	5	PHYS5070
PH508	Spacecraft Design and Operations	15	Spring	5	PHYS5080
PH512	Data Analysis Techniques in Astronomy and Planetary Science	15	Spring	5	PHYS5120
PH520	Physics Laboratory A	15	Autumn	5	PHYS5200
PH588	Mathematical Techniques for Physical Sciences	15	Autumn	5	PHYS5880

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS WITH A YEAR IN INDUSTRY
 Single Honours **ASSA-S:BSC**

STAGE 5 - 120 credits

You must take the following compulsory module (120 credits):

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS591*	Industrial Placements Experience	90	Year Long	6	PSCI5910
PS592*	Industrial Placement Assessment	30	Year Long	6	PSCI5920

*Failure in this module may not be compensated.

ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS WITH A YEAR IN INDUSTRY
 Single Honours **ASSA-S:BSC**

STAGE 3 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH603	Physics Group Project	15	Spring	6	PHYS6030
PH604	Relativity Optics and Maxwell's Equations	15	Autumn	6	PHYS6040
PH605	Thermal and Statistical Physics	15	Spring	6	PHYS6050
PH607	Stars, Galaxies and the Universe	15	Spring	6	PHYS6070
PH608	The Sun, The Earth and Mars	15	Autumn	6	PHYS6080
PH611	Numerical and Computational Methods	15	Spring	6	PHYS6110
PH617	Physics Project Laboratory	15	Autumn & Spring	6	PHYS6170
PH666	Nuclear and Particle Physics	15	Autumn	6	PHYS6660

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050

STAGE 2 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH504	Organic Reaction Mechanisms	15	Autumn & Spring	5	CHEM5040
CH506	Chemical Identification Techniques	15	Autumn & Spring	5	CHEM5060
CH530	Polymeric and Organic Materials	15	Autumn & Spring	5	CHEM5300
CH531	Thermodynamics and Kinetics	15	Autumn & Spring	5	CHEM5310
CH532	Spectroscopy and Bonding	15	Autumn & Spring	5	CHEM5320
CH533	Materials and Solid State Chemistry	15	Autumn & Spring	5	CHEM5330
CH534	Inorganic and Environmental Chemistry	15	Autumn & Spring	5	CHEM5340
PS512	Numerical, Statistical and Analytical Skills	15	Autumn & Spring	5	PSCI5120

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

STAGE 3 - 120 credits

You must take the following compulsory modules (105 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH604	Analytical Chemistry	15	Autumn & Spring	6	CHEM6040
CH620*	Chemistry Research Project	30	Autumn & Spring	6	CHEM6200
CH622	Topics in Inorganic Synthetic Chemistry	15	Autumn & Spring	6	CHEM6220
CH623	Main Group and Organometallic Chemistry	15	Autumn & Spring	6	CHEM6230
CH624	Transformations and Chirality in Organic Chemistry	15	Autumn & Spring	6	CHEM6240
PS604	Topics in Functional Materials	15	Autumn & Spring	6	PSCI6040

*Failure in this module may not be compensated.

PLUS 15 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS601	Fires and Explosions	15	Autumn & Spring	6	PSCI6010
PS637	DNA Analysis & Interpretation	15	Autumn & Spring	6	PSCI6370

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050

CHEMISTRY
Single Honours

CHEMISTRY:MCHEM

STAGE 2 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH504	Organic Reaction Mechanisms	15	Autumn & Spring	5	CHEM5040
CH506	Chemical Identification Techniques	15	Autumn & Spring	5	CHEM5060
CH530	Polymeric and Organic Materials	15	Autumn & Spring	5	CHEM5300
CH531	Thermodynamics and Kinetics	15	Autumn & Spring	5	CHEM5310
CH532	Spectroscopy and Bonding	15	Autumn & Spring	5	CHEM5320
CH533	Materials and Solid State Chemistry	15	Autumn & Spring	5	CHEM5330
CH534	Inorganic and Environmental Chemistry	15	Autumn & Spring	5	CHEM5340
PS512	Numerical, Statistical and Analytical Skills	15	Autumn & Spring	5	PSCI5120

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

CHEMISTRY**CHEMISTRY:MCHEM**

Single Honours

STAGE 3 - 120 credits**You must take the following compulsory modules (105 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH604	Analytical Chemistry	15	Autumn & Spring	6	CHEM6040
CH622	Topics in Inorganic Synthetic Chemistry	15	Autumn & Spring	6	CHEM6220
CH623	Main Group and Organometallic Chemistry	15	Autumn & Spring	6	CHEM6230
CH624	Transformations and Chirality in Organic Chemistry	15	Autumn & Spring	6	CHEM6240
PS604	Topics in Functional Materials	15	Autumn & Spring	6	PSCI6040
PS720*	Advanced Project Laboratory	30	Autumn & Spring	7	PSCI7200

*Failure in this module may not be compensated.

PLUS 15 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS601	Fires and Explosions	15	Autumn & Spring	6	PSCI6010
PS637	DNA Analysis & Interpretation	15	Autumn & Spring	6	PSCI6370

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050

CHEMISTRY**CHEMISTRY:MCHEM**

Single Honours

STAGE 4 - 120 credits**You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH740*	MChem Research Project	75	Autumn & Spring	7	CHEM7400
CH741	Computational Chemistry	15	Autumn & Spring	7	CHEM7410
CH742	Advanced Concepts in Physical and Inorganic Chemistry	15	Autumn & Spring	7	CHEM7420
CH743	Modern Molecular Synthesis	15	Autumn	7	CHEM7430

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS703	Study and Employability Skills for Level 7	1 Non-Contributory	Yearlong	7	PSCI7030

CHEMISTRY WITH A YEAR IN INDUSTRY

Single Honours

CHEMISTRY-S:BSC**STAGE 2 - 120 credits****You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH504	Organic Reaction Mechanisms	15	Autumn & Spring	5	CHEM5040
CH506	Chemical Identification Techniques	15	Autumn & Spring	5	CHEM5060
CH530	Polymeric and Organic Materials	15	Autumn & Spring	5	CHEM5300
CH531	Thermodynamics and Kinetics	15	Autumn & Spring	5	CHEM5310
CH532	Spectroscopy and Bonding	15	Autumn & Spring	5	CHEM5320
CH533	Materials and Solid State Chemistry	15	Autumn & Spring	5	CHEM5330
CH534	Inorganic and Environmental Chemistry	15	Autumn & Spring	5	CHEM5340
PS512	Numerical, Statistical and Analytical Skills	15	Autumn & Spring	5	PSCI5120

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

CHEMISTRY-S:BSC**CHEMISTRY WITH A YEAR IN INDUSTRY**

Single Honours

STAGE S - 120 credits**You must take the following compulsory modules (105 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS591*	Industrial Placements Experience	90	Year Long	5	PSCI5910
PS592*	Industrial Placement Assessment	30	Year Long	5	PSCI5920

*Failure in this module may not be compensated.

CHEMISTRY WITH A YEAR IN INDUSTRY

Single Honours

CHEMISTRY-S:BSC**STAGE 3 - 120 credits****You must take the following compulsory modules (105 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH604	Analytical Chemistry	15	Autumn & Spring	6	CHEM6040
CH620*	Chemistry Research Project	30	Autumn & Spring	6	CHEM6200
CH622	Topics in Inorganic Synthetic Chemistry	15	Autumn & Spring	6	CHEM6220
CH623	Main Group and Organometallic Chemistry	15	Autumn & Spring	6	CHEM6230
CH624	Transformations and Chirality in Organic Chemistry	15	Autumn & Spring	6	CHEM6240
PS604	Topics in Functional Materials	15	Autumn & Spring	6	PSCI6040

*Failure in this module may not be compensated.

PLUS 15 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS601	Fires and Explosions	15	Autumn & Spring	6	PSCI6010
PS637	DNA Analysis & Interpretation	15	Autumn & Spring	6	PSCI6370

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050

CHEMISTRY WITH A YEAR ABROAD

Single Honours

CHEMISTRY-A:BSC**STAGE A - 120 credits**

You must take the following compulsory modules (105 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS593*	Chemistry and Forensic Science Year Abroad	120	Year Long	5	PSCI5930

*Failure in this module may not be compensated.

CHEMISTRY WITH A YEAR ABROAD

Single Honours

CHEMISTRY-A:BSC**STAGE 3 - 120 credits**

You must take the following compulsory modules (105 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH604	Analytical Chemistry	15	Autumn & Spring	6	CHEM6040
CH620*	Chemistry Research Project	30	Autumn & Spring	6	CHEM6200
CH622	Topics in Inorganic Synthetic Chemistry	15	Autumn & Spring	6	CHEM6220
CH623	Main Group and Organometallic Chemistry	15	Autumn & Spring	6	CHEM6230
CH624	Transformations and Chirality in Organic Chemistry	15	Autumn & Spring	6	CHEM6240
PS604	Topics in Functional Materials	15	Autumn & Spring	6	PSCI6040

*Failure in this module may not be compensated.

PLUS 15 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS601	Fires and Explosions	15	Autumn & Spring	6	PSCI6010
PS637	DNA Analysis & Interpretation	15	Autumn & Spring	6	PSCI6370

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050

FORENSIC SCIENCE

Single Honours

FORENSIC:BSC**STAGE 2 - 120 credits**

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH506	Chemical Identification Techniques	15	Autumn & Spring	5	CHEM5060
LW562	Criminal Law for Forensic Scientists	15	Autumn	6	LAWS5620
PS501	Forensic Physical Methods	15	Autumn & Spring	5	PSCI5010
PS502	Forensic Archaeology	15	Spring	5	PSCI5020
PS511	Digital Forensics	15	Autumn & Spring	5	PSCI5110
PS512	Numerical, Statistical and Analytical Skills	15	Autumn & Spring	5	PSCI5120
PS534	Inorganic Chemistry, Fibres and Microscopy	15	Autumn & Spring	5	PSCI5340
PS556	Firearms & Ballistics	15	Spring	5	PSCI5560

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

FORENSIC SCIENCE

Single Honours

FORENSIC:BSC**STAGE 3 - 120 credits**

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH604	Analytical Chemistry	15	Autumn & Spring	6	CHEM6040
LW573	Law of Evidence for Forensic Scientists	15	Autumn	6	LAWS5730
PS601	Fires and Explosions	15	Autumn & Spring	6	PSCI6010
PS602	Forensic Expert Witness Skills	15	Autumn	6	PSCI6020
PS620*	Forensic Science Project	30	Autumn & Spring	6	PSCI6200
PS637	DNA Analysis & Interpretation	15	Autumn & Spring	6	PSCI6370
PS712	Advanced Topics in Forensic Science	15	Autumn & Spring	7	PSCI7120

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050

FORENSIC SCIENCE

Single Honours

FORENSIC:MSCI**STAGE 2 - 120 credits****You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH506	Chemical Identification Techniques	15	Autumn & Spring	5	<i>CHEM5060</i>
LW562	Criminal Law for Forensic Scientists	15	Autumn	6	<i>LAWS5620</i>
PS501	Forensic Physical Methods	15	Autumn & Spring	5	<i>PSCI5010</i>
PS502	Forensic Archaeology	15	Spring	5	<i>PSCI5020</i>
PS511	Digital Forensics	15	Autumn & Spring	5	<i>PSCI5110</i>
PS512	Numerical, Statistical and Analytical Skills	15	Autumn & Spring	5	<i>PSCI5120</i>
PS534	Inorganic Chemistry, Fibres and Microscopy	15	Autumn & Spring	5	<i>PSCI5340</i>
PS556	Firearms & Ballistics	15	Spring	5	<i>PSCI5560</i>

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	<i>PSCI5040</i>

FORENSIC SCIENCE

Single Honours

FORENSIC:MSCI**STAGE 3 - 120 credits****You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH604	Analytical Chemistry	15	Autumn & Spring	6	<i>CHEM6040</i>
LW573	Law of Evidence for Forensic Scientists	15	Autumn	6	<i>LAWS5730</i>
PS601	Fires and Explosions	15	Autumn & Spring	6	<i>PSCI6010</i>
PS602	Forensic Expert Witness Skills	15	Autumn	6	<i>PSCI6020</i>
PS637	DNA Analysis & Interpretation	15	Autumn & Spring	6	<i>PSCI6370</i>
PS712	Advanced Topics in Forensic Science	15	Autumn & Spring	7	<i>PSCI7120</i>
PS720*	Advanced Project Laboratory	30	Autumn & Spring	7	<i>PSCI7200</i>

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	<i>PSCI6050</i>

FORENSIC SCIENCE

Single Honours

FORENSIC:MSCI**STAGE 4 - 120 credits****You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS700	Physical Science Research Investigation	15	Autumn & Spring	7	PSCI7000
PS713	Substances of Abuse	15	Autumn & Spring	7	PSCI7130
PS717	Modern Approaches to Incident Management	30	Autumn & Spring	7	PSCI7170
PS740*	Forensic Science Research Project	60	Autumn & Spring	7	PSCI7400

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS703	Study and Employability Skills for Level 7	1 Non-Contributory	Yearlong	7	PSCI7030

FORENSIC SCIENCE WITH A YEAR IN INDUSTRY

Single Honours

FORENSIC-S:BSC**STAGE 2 - 120 credits****You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH506	Chemical Identification Techniques	15	Autumn & Spring	5	CHEM5060
LW562	Criminal Law for Forensic Scientists	15	Autumn	6	LAWS5620
PS501	Forensic Physical Methods	15	Autumn & Spring	5	PSCI5010
PS502	Forensic Archaeology	15	Spring	5	PSCI5020
PS511	Digital Forensics	15	Autumn & Spring	5	PSCI5110
PS512	Numerical, Statistical and Analytical Skills	15	Autumn & Spring	5	PSCI5120
PS534	Inorganic Chemistry, Fibres and Microscopy	15	Autumn & Spring	5	PSCI5340
PS556	Firearms & Ballistics	15	Spring	5	PSCI5560

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

FORENSIC SCIENCE WITH A YEAR IN INDUSTRY
Single Honours

FORENSIC-S:BSC

STAGE S - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS591*	Industrial Placements Experience	90	Year Long	5	PSCI5910
PS592*	Industrial Placement Assessment	30	Year Long	5	PSCI5920

*Failure in this module may not be compensated.

FORENSIC SCIENCE WITH A YEAR IN INDUSTRY
Single Honours

FORENSIC-S:BSC

STAGE 3 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH604	Analytical Chemistry	15	Autumn & Spring	6	CHEM6040
LW573	Law of Evidence for Forensic Scientists	15	Autumn	6	LAWS5730
PS601	Fires and Explosions	15	Autumn & Spring	6	PSCI6010
PS602	Forensic Expert Witness Skills	15	Autumn	6	PSCI6020
PS620*	Forensic Science Project	30	Autumn & Spring	6	PSCI6200
PS637	DNA Analysis & Interpretation	15	Autumn & Spring	6	PSCI6370
PS712	Advanced Topics in Forensic Science	15	Autumn & Spring	7	PSCI7120

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050

FORENSIC SCIENCE WITH A YEAR ABROAD

Single Honours

FORENSIC-A:BSC**STAGE 2 - 120 credits****You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH506	Chemical Identification Techniques	15	Autumn & Spring	5	<i>CHEM5060</i>
LW562	Criminal Law for Forensic Scientists	15	Autumn	6	<i>LAWS5620</i>
PS501	Forensic Physical Methods	15	Autumn & Spring	5	<i>PSCI5010</i>
PS502	Forensic Archaeology	15	Spring	5	<i>PSCI5020</i>
PS511	Digital Forensics	15	Autumn & Spring	5	<i>PSCI5110</i>
PS512	Numerical, Statistical and Analytical Skills	15	Autumn & Spring	5	<i>PSCI5120</i>
PS534	Inorganic Chemistry, Fibres and Microscopy	15	Autumn & Spring	5	<i>PSCI5340</i>
PS556	Firearms & Ballistics	15	Spring	5	<i>PSCI5560</i>

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	<i>PSCI5040</i>

FORENSIC SCIENCE WITH A YEAR ABROAD

Single Honours

FORENSIC-A:BSC**STAGE A - 120 credits****You must take the following compulsory module (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS593*	Chemistry and Forensic Science Year Abroad	120	Year Long	5	<i>PSCI5930</i>

*Failure in this module may not be compensated.

FORENSIC SCIENCE WITH A YEAR ABROAD

Single Honours

FORENSIC-A:BSC**STAGE 3 - 120 credits****You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH604	Analytical Chemistry	15	Autumn & Spring	6	CHEM6040
LW573	Law of Evidence for Forensic Scientists	15	Autumn	6	LAWS5730
PS601	Fires and Explosions	15	Autumn & Spring	6	PSCI6010
PS602	Forensic Expert Witness Skills	15	Autumn	6	PSCI6020
PS620*	Forensic Science Project	30	Autumn & Spring	6	PSCI6200
PS637	DNA Analysis & Interpretation	15	Autumn & Spring	6	PSCI6370
PS712	Advanced Topics in Forensic Science	15	Autumn & Spring	7	PSCI7120

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050

PHYSICS

Single Honours

PHYS:BSC**STAGE 2 - 120 credits**

You must take the following compulsory modules (105 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH500	Physics Laboratory	30	Autumn & Spring	5	PHYS5000
PH502	Quantum Physics	15	Autumn & Spring	5	PHYS5020
PH503	Atomic Physics	15	Spring	5	PHYS5030
PH504	Electromagnetism and Optics	15	Autumn	5	PHYS5040
PH513	Medical Physics	15	Spring	5	PHYS5130
PH588	Mathematical Techniques for Physical Sciences	15	Autumn	5	PHYS5880

PLUS 15 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH507	The Multiwavelength Universe and Exoplanets	15	Spring	5	PHYS5070
PH508	Spacecraft Design and Operations	15	Spring	5	PHYS5080

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

PHYSICS

Single Honours

PHYS:BSC**STAGE 3 - 120 credits**

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH602	Physics Problem Solving	15	Autumn	6	PHYS6020
PH603	Physics Group Project	15	Spring	6	PHYS6030
PH604	Relativity Optics and Maxwell's Equations	15	Autumn	6	PHYS6040
PH605	Thermal and Statistical Physics	15	Spring	6	PHYS6050
PH606	Solid State Physics	15	Spring	6	PHYS6060
PH611	Numerical and Computational Methods	15	Spring	6	PHYS6110
PH617	Physics Project Laboratory	15	Autumn & Spring	6	PHYS6170
PH666	Nuclear and Particle Physics	15	Autumn	6	PHYS6660

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050

PHYSICS (4 year programme)**PHYS-4:MPHYS**

Single Honours

STAGE 2 - 120 credits

You must take the following compulsory modules (105 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH500	Physics Laboratory	30	Autumn & Spring	5	PHYS5000
PH502	Quantum Physics	15	Autumn & Spring	5	PHYS5020
PH503	Atomic Physics	15	Spring	5	PHYS5030
PH504	Electromagnetism and Optics	15	Autumn	5	PHYS5040
PH513	Medical Physics	15	Spring	5	PHYS5130
PH588	Mathematical Techniques for Physical Sciences	15	Autumn	5	PHYS5880

PLUS 15 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH507	The Multiwavelength Universe and Exoplanets	15	Spring	5	PHYS5070
PH508†	Spacecraft Design and Operations	15	Spring	5	PHYS5080

†You must take this module if you wish to take PH711 Rocketry and Human Space Flight in Stage 4.

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

PHYSICS

PHYS-4:MPHYS

Single Honours

STAGE 3 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH602	Physics Problem Solving	15	Autumn	6	PHYS6020
PH604	Relativity Optics and Maxwell's Equations	15	Autumn	6	PHYS6040
PH605	Thermal and Statistical Physics	15	Spring	6	PHYS6050
PH606	Solid State Physics	15	Spring	6	PHYS6060
PH611	Numerical and Computational Methods	15	Spring	6	PHYS6110
PH621	Analytical Mechanics	15	Autumn & Spring	6	PHYS6210
PH666	Nuclear and Particle Physics	15	Autumn	6	PHYS6660
PS700	Physical Science Research Investigation	15	Autumn & Spring	7	PSCI7000

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050

PHYSICS

Single Honours

PHYS-4:MPHYS

STAGE 4 - 120 credits

You must take the following compulsory modules (90 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH700*	Physics Research Project	60	Autumn & Spring	7	PHYS7000
PH752	Magnetism and Superconductivity	15	Autumn & Spring	7	PHYS7520
PH722	Particle and Quantum Physics	15	Autumn	7	PHYS7220

*Failure in this module may not be compensated.

PLUS 30 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CO822	Introduction to Quantum Computing and Quantum Cryptography	15	Spring	7	COMP8220
PH709	Space Astronomy and Solar System Science	15	Autumn	7	PHYS7090
PH711†	Rocketry and Human Spaceflight	15	Spring	7	PHYS7110
PS604	Topics in Functional Materials	15	Autumn & Spring	6	PSCI6040

†Prerequisite PH508 at stage 2

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS703	Study and Employability Skills for Level 7	1 Non-Contributory	Yearlong	7	PSCI7030

PHYSICS WITH A YEAR ABROAD

Single Honours

PHYS-A:MPHYS**STAGE 2 - 120 credits**

You must take the following compulsory modules (105 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH500	Physics Laboratory	30	Autumn & Spring	5	PHYS5000
PH502	Quantum Physics	15	Autumn & Spring	5	PHYS5020
PH503	Atomic Physics	15	Spring	5	PHYS5030
PH504	Electromagnetism and Optics	15	Autumn	5	PHYS5040
PH513	Medical Physics	15	Spring	5	PHYS5130
PH588	Mathematical Techniques for Physical Sciences	15	Autumn	5	PHYS5880

PLUS 15 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH507	The Multiwavelength Universe and Exoplanets	15	Spring	5	PHYS5070
PH508†	Spacecraft Design and Operations	15	Spring	5	PHYS5080

†You must take this module if you wish to take PH711 Rocketry and Human Space Flight in Stage 4.

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

PHYSICS WITH A YEAR ABROAD

Single Honours

PHYS-A:MPHYS**STAGE A - 120 credits**

You must take the following compulsory modules (105 credits):

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH790*	Year Abroad	120	Year Long	6	PHYS7900

*Failure in this module may not be compensated.

PHYSICS WITH A YEAR ABROAD

Single Honours

PHYS-A:MPHYS**STAGE 4 - 120 credits****You must take the following compulsory modules (90 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH700*	Physics Research Project	60	Autumn & Spring	7	PHYS7000
PH752	Magnetism and Superconductivity	15	Autumn & Spring	7	PHYS7520
PH722	Particle and Quantum Physics	15	Autumn	7	PHYS7220

*Failure in this module may not be compensated.

PLUS 30 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CO822	Introduction to Quantum Computing and Quantum Cryptography	15	Spring	7	COMP8220
PH709	Space Astronomy and Solar System Science	15	Autumn	7	PHYS7090
PH711†	Rocketry and Human Spaceflight	15	Spring	7	PHYS7110
PS604	Topics in Functional Materials	15	Autumn & Spring	6	PSCI7010

† Prerequisite PH508 at stage 2

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS703	Study and Employability Skills for Level 7	1 Non-Contributory	Yearlong	7	PSCI7030

PHYSICS WITH A YEAR IN INDUSTRY**PHYS-S:BSC**

Single Honours

STAGE 2 - 120 credits

You must take the following compulsory modules (105 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH500	Physics Laboratory	30	Autumn & Spring	5	PHYS5000
PH502	Quantum Physics	15	Autumn & Spring	5	PHYS5020
PH503	Atomic Physics	15	Spring	5	PHYS5030
PH504	Electromagnetism and Optics	15	Autumn	5	PHYS5040
PH513	Medical Physics	15	Spring	5	PHYS5130
PH588	Mathematical Techniques for Physical Sciences	15	Autumn	5	PHYS5880

PLUS 15 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH507	The Multiwavelength Universe and Exoplanets	15	Spring	5	PHYS5070
PH508	Spacecraft Design and Operations	15	Spring	5	PHYS5080

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

PHYSICS WITH A YEAR IN INDUSTRY**PHYS-S:BSC**

Single Honours

STAGE S - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS591*	Industrial Placements Experience	90	Year Long	5	PSCI5910
PS592*	Industrial Placement Assessment	30	Year Long	5	PSCI5920

*Failure in this module may not be compensated.

PHYSICS WITH A YEAR IN INDUSTRY**PHYS-S:BSC**

Single Honours

STAGE 3 - 120 credits**You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH602	Physics Problem Solving	15	Autumn	6	<i>PHYS6020</i>
PH603	Physics Group Project	15	Spring	6	<i>PHYS6030</i>
PH604	Relativity Optics and Maxwell's Equations	15	Autumn	6	<i>PHYS6040</i>
PH605	Thermal and Statistical Physics	15	Spring	6	<i>PHYS6050</i>
PH606	Solid State Physics	15	Spring	6	<i>PHYS6060</i>
PH611	Numerical and Computational Methods	15	Spring	6	<i>PHYS6110</i>
PH617	Physics Project Laboratory	15	Autumn & Spring	6	<i>PHYS6170</i>
PH666	Nuclear and Particle Physics	15	Autumn	6	<i>PHYS6660</i>

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	<i>PSCI6050</i>

PHYSICS WITH ASTROPHYSICS**PHYS/ASTRO:BSC**

Single Honours

STAGE 2 - 120 credits**You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH500	Physics Laboratory	30	Autumn & Spring	5	<i>PHYS5000</i>
PH502	Quantum Physics	15	Autumn & Spring	5	<i>PHYS5020</i>
PH503	Atomic Physics	15	Spring	5	<i>PHYS5030</i>
PH504	Electromagnetism and Optics	15	Autumn	5	<i>PHYS5040</i>
PH507	The Multiwavelength Universe and Exoplanets	15	Spring	5	<i>PHYS5070</i>
PH513	Medical Physics	15	Spring	5	<i>PHYS5130</i>
PH588	Mathematical Techniques for Physical Sciences	15	Autumn	5	<i>PHYS5880</i>

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	<i>PSCI5040</i>

PHYSICS WITH ASTROPHYSICS**PHYS/ASTRO:BSC**

Single Honours

STAGE 3 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH602	Physics Problem Solving	15	Autumn	6	PHYS6020
PH603	Physics Group Project	15	Spring	6	PHYS6030
PH604	Relativity Optics and Maxwell's Equations	15	Autumn	6	PHYS6040
PH605	Thermal and Statistical Physics	15	Spring	6	PHYS6050
PH606	Solid State Physics	15	Spring	6	PHYS6060
PH607	Stars, Galaxies and the Universe	15	Spring	6	PHYS6070
PH617	Physics Project Laboratory	15	Autumn & Spring	6	PHYS6170
PH666	Nuclear and Particle Physics	15	Autumn	6	PHYS6660

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050

PHYSICS WITH ASTROPHYSICS

Single Honours

PHYS/ASTRO-4:MPHYS

STAGE 2 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH500	Physics Laboratory	30	Autumn & Spring	5	PHYS5000
PH502	Quantum Physics	15	Autumn & Spring	5	PHYS5020
PH503	Atomic Physics	15	Spring	5	PHYS5030
PH504	Electromagnetism and Optics	15	Autumn	5	PHYS5040
PH507	The Multiwavelength Universe and Exoplanets	15	Spring	5	PHYS5070
PH513	Medical Physics	15	Spring	5	PHYS5130
PH588	Mathematical Techniques for Physical Sciences	15	Autumn	5	PHYS5880

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

PHYSICS WITH ASTROPHYSICS

Single Honours

PHYS/ASTRO-4:MPHYS

STAGE 3 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH602	Physics Problem Solving	15	Autumn	6	PHYS6020
PH604	Relativity Optics and Maxwell's Equations	15	Autumn	6	PHYS6040
PH605	Thermal and Statistical Physics	15	Spring	6	PHYS6050
PH606	Solid State Physics	15	Spring	6	PHYS6060
PH607	Stars, Galaxies and the Universe	15	Spring	6	PHYS6070
PH621	Analytical Mechanics	15	Autumn & Spring	6	PHYS6210
PH666	Nuclear and Particle Physics	15	Autumn	6	PHYS6660
PS700	Physical Science Research Investigation	15	Autumn & Spring	7	PSCI7000

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050

PHYSICS WITH ASTROPHYSICS**PHYS/ASTRO-4:MPHYS**

Single Honours

STAGE 4 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH700*	Physics Research Project	60	Autumn & Spring	7	PHYS7000
PH709	Space Astronomy and Solar System Science	15	Autumn	7	PHYS7090
PH712	Cosmology and Interstellar Medium	15	Spring	7	PHYS7120
PH752	Magnetism and Superconductivity	15	Autumn & Spring	7	PHYS7520
PH722	Particle and Quantum Physics	15	Autumn	7	PHYS7220

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS703	Study and Employability Skills for Level 7	1 Non-Contributory	Yearlong	7	PSCI7030

PHYSICS WITH ASTROPHYSICS WITH A YEAR ABROAD**PHYS/ASTRO-A:MPHYS**

Single Honours

STAGE 2 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH500	Physics Laboratory	30	Autumn & Spring	5	PHYS5000
PH502	Quantum Physics	15	Autumn & Spring	5	PHYS5020
PH503	Atomic Physics	15	Spring	5	PHYS5030
PH504	Electromagnetism and Optics	15	Autumn	5	PHYS5040
PH507	The Multiwavelength Universe and Exoplanets	15	Spring	5	PHYS5070
PH513	Medical Physics	15	Spring	5	PHYS5130
PH588	Mathematical Techniques for Physical Sciences	15	Autumn	5	PHYS5880

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

PHYSICS WITH ASTROPHYSICS WITH A YEAR ABROAD**PHYS/ASTRO-A:MPHYS**

Single Honours

STAGE A - 120 credits

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH790*	Year Abroad	120	Year Long	6	PHYS7900

*Failure in this module may not be compensated.

PHYSICS WITH ASTROPHYSICS WITH A YEAR ABROAD**PHYS/ASTRO-A:MPHYS**

Single Honours

STAGE 4 - 120 credits

You must take the following compulsory modules (120 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH700*	Physics Research Project	60	Autumn & Spring	7	PHYS7000
PH709	Space Astronomy and Solar System Science	15	Autumn	7	PHYS7090
PH712	Cosmology and Interstellar Medium	15	Spring	7	PHYS7120
PH752	Magnetism and Superconductivity	15	Autumn & Spring	7	PHYS7520
PH722	Particle and Quantum Physics	15	Autumn	7	PHYS7220

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS703	Study and Employability Skills for Level 7	1 Non-Contributory	Yearlong	7	PSCI7030

PHYSICS WITH ASTROPHYSICS WITH A YEAR IN INDUSTRY**PHYS/ASTRO-S:BSC**

Single Honours

STAGE 2 - 120 credits**You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH500	Physics Laboratory	30	Autumn & Spring	5	PHYS5000
PH502	Quantum Physics	15	Autumn & Spring	5	PHYS5020
PH503	Atomic Physics	15	Spring	5	PHYS5030
PH504	Electromagnetism and Optics	15	Autumn	5	PHYS5040
PH507	The Multiwavelength Universe and Exoplanets	15	Spring	5	PHYS5070
PH513	Medical Physics	15	Spring	5	PHYS5130
PH588	Mathematical Techniques for Physical Sciences	15	Autumn	5	PHYS5880

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS504	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	PSCI5040

PHYSICS WITH ASTROPHYSICS WITH A YEAR IN INDUSTRY**PHYS/ASTRO-S:BSC**

Single Honours

STAGE 5 - 120 credits**You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS591*	Industrial Placements Experience	90	Year Long	5	PSCI5910
PS592*	Industrial Placement Assessment	30	Year Long	5	PSCI5920

*Failure in this module may not be compensated.

PHYSICS WITH ASTROPHYSICS WITH A YEAR IN INDUSTRY**PHYS/ASTRO-S:BSC**

Single Honours

STAGE 3 - 120 credits**You must take the following compulsory modules (120 credits):**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH602	Physics Problem Solving	15	Autumn	6	PHYS6020
PH603	Physics Group Project	15	Spring	6	PHYS6030
PH604	Relativity Optics and Maxwell's Equations	15	Autumn	6	PHYS6040
PH605	Thermal and Statistical Physics	15	Spring	6	PHYS6050
PH606	Solid State Physics	15	Spring	6	PHYS6060
PH607	Stars, Galaxies and the Universe	15	Spring	6	PHYS6070
PH617	Physics Project Laboratory	15	Autumn & Spring	6	PHYS6170
PH666	Nuclear and Particle Physics	15	Autumn	6	PHYS6660

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS605	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PSCI6050