

## THE SCHOOL OF PHYSICAL SCIENCES

Head of School: Prof Nigel Mason

School Web Site: [www.kent.ac.uk/physical-sciences](http://www.kent.ac.uk/physical-sciences)

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

[www.kent.ac.uk/courses/modulecatalogue/](http://www.kent.ac.uk/courses/modulecatalogue/)

**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 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](#)

Note all programmes above are eligible to apply for the “with a year in Computing”

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

Single Honours

**STAGE 2 - 120 credits**

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

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
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

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

Single Honours

**STAGE 3 - 120 credits**

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

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
PH603	Physics Group Project	15	Autumn & 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
PH618	Image Processing	15	Autumn	6	PHYS6180

**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

**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
PS700	Physical Science Research Investigation	15	Autumn & Spring	7	PSCI7000
PH618	Image Processing	15	Autumn	6	PHYS6180

**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.

**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

**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.

**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

**ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS WITH A YEAR IN INDUSTRY**

Single Honours

**ASSA-S:BSC****STAGE S - 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	Autumn & 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
PH618	Image Processing	15	Autumn	6	PHYS6180

**CHEMISTRY**  
Single Honours**CHEMISTRY: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

**CHEMISTRY**  
Single Honours**CHEMISTRY: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 ONE of the following optional modules (15 credits):

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

**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

**CHEMISTRY**  
Single Honours**CHEMISTRY:MCHEM****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 ONE of the following optional modules (15 credits):

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

**CHEMISTRY**  
Single Honours

**CHEMISTRY:MCHEM**

**STAGE 4 - 120 credits**

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

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
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.

**CHEMISTRY WITH A YEAR IN INDUSTRY**  
Single Honours

**CHEMISTRY-S:BSC**

**STAGE 2 - 120 credits**

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

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
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



**CHEMISTRY WITH A YEAR IN INDUSTRY**

Single Honours

**CHEMISTRY-S:BSC****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 ONE of the following optional modules (15 credits):

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

**FORENSIC SCIENCE**

Single Honours

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

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

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
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

**FORENSIC SCIENCE**

Single Honours

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

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

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
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 & Spring	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.

**FORENSIC SCIENCE**

Single Honours

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

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

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

**FORENSIC SCIENCE**

Single Honours

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

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

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

\*Failure in this module may not be compensated.

**FORENSIC SCIENCE**

Single Honours

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

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

\*Failure in this module may not be compensated.

**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):**

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

**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):**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
<a href="#">PS591*</a>	Industrial Placements Experience	90	Year Long	5	<i>PSCI5910</i>
<a href="#">PS592*</a>	Industrial Placement Assessment	30	Year Long	5	<i>PSCI5920</i>

\*Failure in this module may not be compensated.

**FORENSIC SCIENCE WITH A YEAR IN INDUSTRY****FORENSIC-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
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 & Spring	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.

**FORENSIC SCIENCE WITH A YEAR ABROAD****FORENSIC-A: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
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

**FORENSIC SCIENCE WITH A YEAR ABROAD****FORENSIC-A:BSC**

Single Honours

**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*	Forensic Science Year Abroad	120	Year Long	5	PSCI5930

\*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):

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

\*Failure in this module may not be compensated.

**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 ONE of the following optional modules (15 credits):

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

**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	Autumn & 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
PH618	Image Processing	15	Autumn	6	PHYS6180

**PHYSICS** (4 year programme)  
Single Honours

**PHYS-4: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 ONE** of the following optional modules (15 credits):

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

**PHYSICS**  
Single Honours

**PHYS-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
PH611	Numerical and Computational Methods	15	Spring	6	PHYS6110
PH621	Analytical Mechanics	15	Autumn & Spring	6	PHYS6210
PS700	Physical Science Research Investigation	15	Autumn & Spring	7	PSCI7000
PH618	Image Processing	15	Autumn	6	PHYS6180



**PHYSICS**

Single Honours

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

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
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 TWO of the following optional modules (30 credits):**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
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

**PHYSICS WITH A YEAR ABROAD**

Single Honours

**PHYS-A:MPHYS****STAGE 2 - 120 credits****You must take the following compulsory modules (105 credits):**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
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 ONE of the following optional modules (15 credits):**

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

**PHYSICS WITH A YEAR ABROAD****PHYS-A:MPHYS**

Single Honours

**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****PHYS-A:MPHYS**

Single Honours

**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 TWO of the following optional modules (30 credits):

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
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

**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 ONE of the following optional modules (15 credits):

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

**PHYSICS WITH A YEAR IN INDUSTRY****PHYS-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 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	PHYS6020
PH603	Physics Group Project	15	Autumn & 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
PH618	Image Processing	15	Autumn	6	PHYS6180

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

Single Honours

**STAGE 2 - 120 credits**

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

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
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

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

Single Honours

**STAGE 3 - 120 credits**

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

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
PH602	Physics Problem Solving	15	Autumn	6	PHYS6020
PH603	Physics Group Project	15	Autumn & 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
PH618	Image Processing	15	Autumn	6	PHYS6180

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

Single Honours

**STAGE 2 - 120 credits**

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

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
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

**PHYSICS WITH ASTROPHYSICS**

Single Honours

**PHYS/ASTRO-4:MPHYS****STAGE 3 - 120 credits****You must take the following compulsory modules (120 credits):**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
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
PS700	Physical Science Research Investigation	15	Autumn & Spring	7	PSCI7000
PH618	Image Processing	15	Autumn	6	PHYS6180

**PHYSICS WITH ASTROPHYSICS**

Single Honours

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

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
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

\*Failure in this module may not be compensated.

**PLUS TWO of the following optional modules (30 credits):**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>Office Use Only</b>
PH711	Rocketry and Human Spaceflight	15	Spring	7	PHYS7110
PH752	Magnetism and Superconductivity	15	Autumn & Spring	7	PHYS7520
PH722	Particle and Quantum Physics	15	Autumn	7	PHYS7220

**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

**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 (90 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

\*Failure in this module may not be compensated.

PLUS TWO of the following optional modules (30 credits):

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH711	Rocketry and Human Spaceflight	15	Spring	7	PHYS7110
PH752	Magnetism and Superconductivity	15	Autumn & Spring	7	PHYS7520
PH722	Particle and Quantum Physics	15	Autumn	7	PHYS7220

**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

**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	Autumn & 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
PH618	Image Processing	15	Autumn	6	PHYS6180