

## DIVISION OF NATURAL SCIENCES

### SCHOOL OF PHYSICAL SCIENCES

School Website: [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/modules](http://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 Professional Placement: BSc](#)
- [Chemistry: BSc](#)
- [Chemistry: MChem](#)
- [Chemistry with a Year Abroad: BSc](#)
- [Chemistry with a Professional Placement: BSc](#)
- [Forensic Science: BSc](#)
- [Forensic Science: MSci](#)
- [Forensic Science with a Year Abroad: BSc](#)
- [Forensic Science with a Professional Placement: BSc](#)
- [Physics: BSc](#)
- [Physics: MPhys](#)
- [Physics with a Year Abroad: MPhys](#)
- [Physics with a Professional Placement: BSc](#)
- [Physics with Astrophysics: BSc](#)
- [Physics with Astrophysics: MPhys](#)
- [Physics with Astrophysics with a Year Abroad: MPhys](#)
- [Physics with Astrophysics with a Professional Placement: 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. **The University cannot guarantee whether all options will be available, or how they will be delivered, if Government Covid restrictions continue.***

**ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS****ASSA:BSC  
UASA0001X1BS-F****ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS WITH A YEAR ABROAD****ASSAA-A:MPHYS  
UASA0001A2MI-F****ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS WITH A PROFESSIONAL PLACEMENT****ASSA-S:BSC  
UASA0001P2BS-F****ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS (4 YEAR)**

Single Honours

**ASSA-4:MPHYS  
UASA0001X1MI-F**

STAGE 2 - 120 credits

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

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

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	OMR CODE
<a href="#">PSCI5040</a>	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	<i>PS504</i>

**ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS WITH A PROFESSIONAL PLACEMENT****ASSA-S:BSC  
UASA0001P2BS-F**

Single Honours

STAGE S - 120 credits

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

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

\*Failure in this module may not be compensated.

**ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS WITH A YEAR ABROAD****ASSA-A:MPHYS  
UASA0001A2MI-F**

Single Honours

STAGE A - 120 credits

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

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	OMR CODE
<a href="#">PHYS7900*</a>	Year Abroad	120	Year Long	6	<i>PH790</i>

\*Failure in this module may not be compensated.

**ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS****ASSA:BSC  
UASA0001X1BS-F****ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS WITH A PROFESSIONAL PLACEMENT  
ASSA-S:BSC  
UASA0001P2BS-F**

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>OMR CODE</b>
<a href="#">PHYS6030</a>	Physics Group Project	15	Spring	6	<i>PH603</i>
<a href="#">PHYS6040</a>	Relativity Optics and Maxwell's Equations	15	Autumn	6	<i>PH604</i>
<a href="#">PHYS6050</a>	Thermal and Statistical Physics	15	Spring	6	<i>PH605</i>
<a href="#">PHYS6070</a>	Stars, Galaxies and the Universe	15	Spring	6	<i>PH607</i>
<a href="#">PHYS6080</a>	The Sun, The Earth and Mars	15	Autumn	6	<i>PH608</i>
<a href="#">PHYS6110</a>	Numerical and Computational Methods	15	Spring	6	<i>PH611</i>
<a href="#">PHYS6170</a>	Physics Project Laboratory	15	Autumn & Spring	6	<i>PH617</i>
<a href="#">PHYS6660</a>	Nuclear and Particle Physics	15	Autumn	6	<i>PH666</i>

**PLUS the following extra-curricular compulsory module:**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>OMR CODE</b>
<a href="#">PSCI6050</a>	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	<i>PS605</i>

**ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS (4 YEAR)****ASSA-4:MPHYS  
UASA0001X1MI-F**

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>OMR CODE</b>
<a href="#">PHYS6040</a>	Relativity Optics and Maxwell's Equations	15	Autumn	6	<i>PH604</i>
<a href="#">PHYS6050</a>	Thermal and Statistical Physics	15	Spring	6	<i>PH605</i>
<a href="#">PHYS6070</a>	Stars, Galaxies and the Universe	15	Spring	6	<i>PH607</i>
<a href="#">PHYS6080</a>	The Sun, The Earth and Mars	15	Autumn	6	<i>PH608</i>
<a href="#">PHYS6110</a>	Numerical and Computational Methods	15	Spring	6	<i>PH611</i>
<a href="#">PHYS6210</a>	Analytical Mechanics	15	Autumn & Spring	6	<i>PH621</i>
<a href="#">PHYS6660</a>	Nuclear and Particle Physics	15	Autumn	6	<i>PH666</i>
<a href="#">PSCI7000</a>	Physical Science Research Investigation	15	Autumn & Spring	7	<i>PS700</i>

**PLUS the following extra-curricular compulsory module:**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>OMR CODE</b>
<a href="#">PSCI6050</a>	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	<i>PS605</i>

**ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS (4 YEAR)**

**ASSA-4:MPHYS**

**ASTRONOMY, SPACE SCIENCE & ASTROPHYSICS WITH A YEAR ABROAD**

**UASA0001X1MI-F**

**ASSA-A:MPHYS**

**UASA0001A2MI-F**

Single Honours

**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>OMR CODE</b>
<a href="#">PHYS7000*</a>	Physics Research Project	60	Autumn & Spring	7	<i>PH700</i>
<a href="#">PHYS7090</a>	Space Astronomy and Solar System Science	15	Autumn	7	<i>PH709</i>
<a href="#">PHYS7110</a>	Rocketry and Human Spaceflight	15	Spring	7	<i>PH711</i>
<a href="#">PHYS7120</a>	Cosmology and Interstellar Medium	15	Spring	7	<i>PH712</i>
<a href="#">PHYS7770</a>	Advanced Quantum Mechanics	15	Autumn	7	<i>PH777</i>

\*Failure in this module may not be compensated.

**PLUS the following extra-curricular compulsory module:**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>OMR CODE</b>
<a href="#">PSCI7030</a>	Study and Employability Skills for Level 7	1 Non-Contributory	Yearlong	7	<i>PS703</i>

**CHEMISTRY****CHEMISTRY WITH A YEAR ABROAD****CHEMISTRY WITH A PROFESSIONAL PLACEMENT****CHEMISTRY (4 YEAR)**

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	OMR CODE
CHEM5040	Organic Reaction Mechanisms	15	Autumn & Spring	5	CH504
CHEM5060	Chemical Identification Techniques	15	Autumn & Spring	5	CH506
CHEM5300	Polymeric and Organic Materials	15	Autumn & Spring	5	CH530
CHEM5310	Thermodynamics and Kinetics	15	Autumn & Spring	5	CH531
CHEM5320	Spectroscopy and Bonding	15	Autumn & Spring	5	CH532
CHEM5330	Materials and Solid State Chemistry	15	Autumn & Spring	5	CH533
CHEM5340	Inorganic and Environmental Chemistry	15	Autumn & Spring	5	CH534
PSCI5120	Numerical, Statistical and Analytical Skills	15	Autumn & Spring	5	PS512

PLUS the following extra-curricular compulsory module:

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

**CHEMISTRY WITH A YEAR ABROAD**

Single Honours

STAGE A - 120 credits

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

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

\*Failure in this module may not be compensated.

**CHEMISTRY WITH A PROFESSIONAL PLACEMENT**

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	OMR CODE
PSCI5910*	Industrial Placements Experience	90	Year Long	5	PS591
PSCI5920*	Industrial Placement Assessment	30	Year Long	5	PS592

\*Failure in this module may not be compensated.

**CHEMISTRY:BSC**  
**UCHE0001X1BS-F**  
**CHEMISTRY-A:BSC**  
**UCHE0001A1BS-F**  
**CHEMISTRY-S:BSC**  
**UCHE0001P2BS-F**  
**CHEMISTRY:MCHEM**  
**UCHE0001X1MH-F**

**CHEMISTRY-A:BSC**  
**UCHE0001A1BS-F**

**CHEMISTRY-S:BSC**  
**UCHE0001P2BS-F**

**CHEMISTRY****CHEMISTRY WITH A PROFESSIONAL PLACEMENT****CHEMISTRY WITH A YEAR ABROAD**

Single Honours

**CHEMISTRY:BSC**  
**UCHE0001X1BS-F**  
**CHEMISTRY-S:BSC**  
**UCHE0001P2BS-F**  
**CHEMISTRY-A:BSC**  
**UCHE0001A1BS-F**

**STAGE 3 - 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>OMR CODE</b>
<a href="#">CHEM6040</a>	Analytical Chemistry	15	Autumn & Spring	6	<i>CH604</i>
<a href="#">CHEM6200*</a>	Chemistry Research Project	30	Autumn & Spring	6	<i>CH620</i>
<a href="#">CHEM6220</a>	Topics in Inorganic Synthetic Chemistry	15	Autumn & Spring	6	<i>CH622</i>
<a href="#">CHEM6230</a>	Main Group and Organometallic Chemistry	15	Autumn & Spring	6	<i>CH623</i>
<a href="#">CHEM6240</a>	Transformations and Chirality in Organic Chemistry	15	Autumn & Spring	6	<i>CH624</i>
<a href="#">PSCI6040</a>	Topics in Functional Materials	15	Autumn & Spring	6	<i>PS604</i>

\*Failure in this module may not be compensated.

**PLUS 15 credits from the following optional modules:**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>OMR CODE</b>
<a href="#">PSCI6010</a>	Fires and Explosions	15	Autumn & Spring	6	<i>PS601</i>
<a href="#">PSCI6370</a>	DNA Analysis & Interpretation	15	Autumn & Spring	6	<i>PS637</i>

**PLUS the following extra-curricular compulsory module:**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>OMR CODE</b>
<a href="#">PSCI6050</a>	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	<i>PS605</i>

**STAGE 3 - 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>OMR CODE</b>
CHEM6040	Analytical Chemistry	15	Autumn & Spring	6	CH604
CHEM6220	Topics in Inorganic Synthetic Chemistry	15	Autumn & Spring	6	CH622
CHEM6230	Main Group and Organometallic Chemistry	15	Autumn & Spring	6	CH623
CHEM6240	Transformations and Chirality in Organic Chemistry	15	Autumn & Spring	6	CH624
PSCI6040	Topics in Functional Materials	15	Autumn & Spring	6	PS604
PSCI7200 *	Advanced Project Laboratory	30	Autumn & Spring	7	PS720

\*Failure in this module may not be compensated.

**PLUS 15 credits from the following optional modules:**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>OMR CODE</b>
PSCI6010	Fires and Explosions	15	Autumn & Spring	6	PS601
PSCI6370	DNA Analysis & Interpretation	15	Autumn & Spring	6	PS637

**PLUS the following extra-curricular compulsory module:**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>OMR CODE</b>
PSCI6050	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	PS605

**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>OMR CODE</b>
CHEM7400*	MChem Research Project	75	Autumn & Spring	7	CH740
CHEM7410	Computational Chemistry	15	Autumn & Spring	7	CH741
CHEM7420	Advanced Concepts in Physical and Inorganic Chemistry	15	Autumn & Spring	7	CH742
CHEM7430	Modern Molecular Synthesis	15	Autumn	7	CH743

\*Failure in this module may not be compensated.

**PLUS the following extra-curricular compulsory module:**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>OMR CODE</b>
PSCI7030	Study and Employability Skills for Level 7	1 Non-Contributory	Yearlong	7	PS703

**FORENSIC SCIENCE**

**FORENSIC:BSC**  
**UFSC0001X1BS-F**  
**FORENSIC-S:BSC**  
**UFSC0001P2BS-F**  
**FORENSIC-A:BSC**  
**UFSC0001A1BS-F**  
**FORENSIC:MSCI**  
**UFSC0001X1MS-F**

**FORENSIC SCIENCE WITH A PROFESSIONAL PLACEMENT****FORENSIC SCIENCE WITH A YEAR ABROAD****FORENSIC SCIENCE (4 YEAR)**

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	OMR CODE
CHEM5060	Chemical Identification Techniques	15	Autumn & Spring	5	CH506
LAWS5620	Criminal Law for Forensic Scientists	15	Autumn	6	LW562
PSCI5010	Forensic Physical Methods	15	Autumn & Spring	5	PS501
PSCI5020	Forensic Archaeology	15	Spring	5	PS502
PSCI5110	Digital Forensics	15	Autumn & Spring	5	PS511
PSCI5120	Numerical, Statistical and Analytical Skills	15	Autumn & Spring	5	PS512
PSCI5340	Inorganic Chemistry, Fibres and Microscopy	15	Autumn & Spring	5	PS534
PSCI5560	Firearms & Ballistics	15	Spring	5	PS556

PLUS the following extra-curricular compulsory module:

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

**FORENSIC SCIENCE WITH A YEAR ABROAD**

Single Honours

**FORENSIC-A:BSC**  
**UFSC0001A1BS-F**

**STAGE A - 120 credits**

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

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

\*Failure in this module may not be compensated.

**FORENSIC SCIENCE WITH A PROFESSIONAL PLACEMENT**

Single Honours

**FORENSIC-S:BSC**  
**UFSC0001P2BS-F**

**STAGE S - 120 credits**

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

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

\*Failure in this module may not be compensated.



**FORENSIC SCIENCE**

**FORENSIC:BSC**  
**UFSC0001X1BS-F**  
**FORENSIC-A:BSC**  
**UFSC0001A1BS-F**  
**FORENSIC-S:BSC**  
**UFSC0001P2BS-F**

**FORENSIC SCIENCE WITH A YEAR ABROAD****FORENSIC SCIENCE WITH A PROFESSIONAL PLACEMENT**

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>OMR CODE</b>
<a href="#">CHEM6040</a>	Analytical Chemistry	15	Autumn & Spring	6	<i>CH604</i>
<a href="#">LAWS5730</a>	Law of Evidence for Forensic Scientists	15	Autumn	6	<i>LW573</i>
<a href="#">PSCI6010</a>	Fires and Explosions	15	Autumn & Spring	6	<i>PS601</i>
<a href="#">PSCI6020</a>	Forensic Expert Witness Skills	15	Autumn	6	<i>PS602</i>
<a href="#">PSCI6200*</a>	Forensic Science Project	30	Autumn & Spring	6	<i>PS620</i>
<a href="#">PSCI6370</a>	DNA Analysis & Interpretation	15	Autumn & Spring	6	<i>PS637</i>
<a href="#">PSCI7120</a>	Advanced Topics in Forensic Science	15	Autumn & Spring	7	<i>PS712</i>

\*Failure in this module may not be compensated.

**PLUS the following extra-curricular compulsory module:**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>OMR CODE</b>
<a href="#">PSCI6050</a>	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	<i>PS605</i>

**FORENSIC SCIENCE (4 YEAR)**

Single Honours

**FORENSIC:MSCI**  
**UFSC0001X1MS-F**

**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>OMR CODE</b>
<a href="#">CHEM6040</a>	Analytical Chemistry	15	Autumn & Spring	6	<i>CH604</i>
<a href="#">LAWS5730</a>	Law of Evidence for Forensic Scientists	15	Autumn	6	<i>LW573</i>
<a href="#">PSCI6010</a>	Fires and Explosions	15	Autumn & Spring	6	<i>PS601</i>
<a href="#">PSCI6020</a>	Forensic Expert Witness Skills	15	Autumn	6	<i>PS602</i>
<a href="#">PSCI6370</a>	DNA Analysis & Interpretation	15	Autumn & Spring	6	<i>PS637</i>
<a href="#">PSCI7120</a>	Advanced Topics in Forensic Science	15	Autumn & Spring	7	<i>PS712</i>
<a href="#">PSCI7200*</a>	Advanced Project Laboratory	30	Autumn & Spring	7	<i>PS720</i>

\*Failure in this module may not be compensated.

**PLUS the following extra-curricular compulsory module:**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>OMR CODE</b>
<a href="#">PSCI6050</a>	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	<i>PS605</i>

Single Honours

**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>OMR CODE</b>
<a href="#">PSCI7000</a>	Physical Science Research Investigation	15	Autumn & Spring	7	<i>PS700</i>
<a href="#">PSCI7130</a>	Substances of Abuse	15	Autumn & Spring	7	<i>PS713</i>
<a href="#">PSCI7170</a>	Modern Approaches to Incident Management	30	Autumn & Spring	7	<i>PS717</i>
<a href="#">PSCI7400*</a>	Forensic Science Research Project MSCI	60	Autumn & Spring	7	<i>PS740</i>

\*Failure in this module may not be compensated.

**PLUS the following extra-curricular compulsory module:**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>OMR CODE</b>
<a href="#">PSCI7030</a>	Study and Employability Skills for Level 7	1 Non-Contributory	Yearlong	7	<i>PS703</i>

**PHYSICS**

**PHYS:BSC**  
**UPHY0001X1BS-F**  
**PHYS-A:MPHYS**  
**UPHY0001A2MI-F**  
**PHYS-S:BSC**  
**UPHY0001P2BS-F**  
**PHYS-4:MPHYS**  
**UPHY0001X1MI-F**

**PHYSICS WITH A YEAR ABROAD****PHYSICS WITH A PROFESSIONAL PLACEMENT**

**PHYSICS** (4 year)  
 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	OMR CODE
<a href="#">PHYS5000</a>	Physics Laboratory	30	Autumn & Spring	5	<i>PH500</i>
<a href="#">PHYS5020</a>	Quantum Physics	15	Autumn & Spring	5	<i>PH502</i>
<a href="#">PHYS5030</a>	Atomic Physics	15	Spring	5	<i>PH503</i>
<a href="#">PHYS5040</a>	Electromagnetism and Optics	15	Autumn	5	<i>PH504</i>
<a href="#">PHYS5130</a>	Medical Physics	15	Spring	5	<i>PH513</i>
<a href="#">PHYS5880</a>	Mathematical Techniques for Physical Sciences	15	Autumn	5	<i>PH588</i>

**PLUS 15 credits from the following optional modules:**

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	OMR CODE
<a href="#">PHYS5070</a>	The Multiwavelength Universe and Exoplanets	15	Spring	5	<i>PH507</i>
<a href="#">PHYS5080</a>	Spacecraft Design and Operations	15	Spring	5	<i>PH508</i>

**PLUS the following extra-curricular compulsory module:**

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	OMR CODE
<a href="#">PSCI5040</a>	Study and Employability Skills for Level 5	1 Non-Contributory	Yearlong	5	<i>PS504</i>

**PHYSICS WITH A PROFESSIONAL PLACEMENT**

**PHYS-S:BSC**  
**UPHY0001P2BS-F**

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	OMR CODE
<a href="#">PSCI5910*</a>	Industrial Placements Experience	90	Year Long	5	<i>PS591</i>
<a href="#">PSCI5920*</a>	Industrial Placement Assessment	30	Year Long	5	<i>PS592</i>

\*Failure in this module may not be compensated.

**PHYSICS WITH A YEAR ABROAD**

**PHYS-A:MPHYS**  
**UPHY0001A2MI-F**

Single Honours

**STAGE A - 120 credits**

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

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	OMR CODE
<a href="#">PHYS7900*</a>	Year Abroad	120	Year Long	6	<i>PH790</i>

\*Failure in this module may not be compensated.

**PHYSICS**

**PHYS:BSC**  
**UPHY0001X1BS-F**  
**PHYS-S:BSC**  
**UPHY0001P2BS-F**

**PHYSICS WITH A PROFESSIONAL PLACEMENT**

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	OMR CODE
<a href="#">PHYS6020</a>	Physics Problem Solving	15	Autumn	6	<i>PH602</i>
<a href="#">PHYS6030</a>	Physics Group Project	15	Spring	6	<i>PH603</i>
<a href="#">PHYS6040</a>	Relativity Optics and Maxwell's Equations	15	Autumn	6	<i>PH604</i>
<a href="#">PHYS6050</a>	Thermal and Statistical Physics	15	Spring	6	<i>PH605</i>
<a href="#">PHYS6060</a>	Solid State Physics	15	Spring	6	<i>PH606</i>
<a href="#">PHYS6110</a>	Numerical and Computational Methods	15	Spring	6	<i>PH611</i>
<a href="#">PHYS6170</a>	Physics Project Laboratory	15	Autumn & Spring	6	<i>PH617</i>
<a href="#">PHYS6660</a>	Nuclear and Particle Physics	15	Autumn	6	<i>PH666</i>

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	OMR CODE
<a href="#">PSCI6050</a>	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	<i>PS605</i>

**PHYSICS (4 YEAR)**

**PHYS-4:MPHYS**  
**UPHY0001X1MI-F**

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	OMR CODE
<a href="#">PHYS6020</a>	Physics Problem Solving	15	Autumn	6	<i>PH602</i>
<a href="#">PHYS6040</a>	Relativity Optics and Maxwell's Equations	15	Autumn	6	<i>PH604</i>
<a href="#">PHYS6050</a>	Thermal and Statistical Physics	15	Spring	6	<i>PH605</i>
<a href="#">PHYS6060</a>	Solid State Physics	15	Spring	6	<i>PH606</i>
<a href="#">PHYS6110</a>	Numerical and Computational Methods	15	Spring	6	<i>PH611</i>
<a href="#">PHYS6210</a>	Analytical Mechanics	15	Autumn & Spring	6	<i>PH621</i>
<a href="#">PHYS6660</a>	Nuclear and Particle Physics	15	Autumn	6	<i>PH666</i>
<a href="#">PSCI7000</a>	Physical Science Research Investigation	15	Autumn & Spring	7	<i>PS700</i>

PLUS the following extra-curricular compulsory module:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	OMR CODE
<a href="#">PSCI6050</a>	Study and Employability Skills for Level 6	1 Non-Contributory	Yearlong	6	<i>PS605</i>

**PHYSICS****PHYSICS WITH A YEAR ABROAD**

Single Honours

**STAGE 4 - 120 credits**

**PHYS-4:MPHYS**  
**PHY0001X1MI-F**  
**PHYS-A:MPHYS**  
**UPHY0001A2MI-F**

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

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	OMR CODE
PHYS7000*	Physics Research Project	60	Autumn & Spring	7	PH700
PHYS7520	Magnetism and Superconductivity	15	Autumn & Spring	7	PH752
PHYS7770	Advanced Quantum Mechanics	15	Autumn	7	PH777

\*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	OMR CODE
COMP8220	Introduction to Quantum Computing and Quantum Cryptography	15	Spring	7	CO822
PHYS7090	Space Astronomy and Solar System Science	15	Autumn	7	PH709
PHYS7110†	Rocketry and Human Spaceflight	15	Spring	7	PH711
PSCI6040	Topics in Functional Materials	15	Autumn & Spring	6	PS604

†Prerequisite PH508 at stage 2

**PLUS the following extra-curricular compulsory module:**

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

**PHYSICS WITH ASTROPHYSICS****PHYS/ASTRO:BSC****PHYSICS WITH ASTROPHYSICS WITH A YEAR ABROAD****UPAP0001X1BS-F****PHYS/ASTRO-A:MPHYS****PHYSICS WITH ASTROPHYSICS WITH A PROFESSIONAL PLACEMENT****UPAP0001A2MI-F****PHYS/ASTRO-S:BSC****UPAP0001P2BS-F****PHYSICS WITH ASTROPHYSICS (4 year)****PHYS/ASTRO-4:MPHYS**

Single Honours

**UPAP0001X1MI-F****STAGE 2 - 120 credits**

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

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

PLUS the following extra-curricular compulsory module:

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

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

Single Honours

**UPAP0001A2MI-F****STAGE A - 120 credits**

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

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	OMR CODE
PHYS7900*	Year Abroad	120	Year Long	6	PH790

\*Failure in this module may not be compensated.

**PHYSICS WITH ASTROPHYSICS WITH A PROFESSIONAL PLACEMENT****PHYS/ASTRO-S:BSC**

Single Honours

**UPAP0001P2BS-F****STAGE S - 120 credits**

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

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

\*Failure in this module may not be compensated.

**PHYSICS WITH ASTROPHYSICS WITH A PROFESSIONAL PLACEMENT PHYS/ASTRO-S:BSC  
UPAP0001P2BS-F  
PHYSICS WITH ASTROPHYSICS  
PHYS/ASTRO:BSC  
UPAP0001X1BS-F**

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	OMR CODE
PHYS6020	Physics Problem Solving	15	Autumn	6	PH602
PHYS6030	Physics Group Project	15	Spring	6	PH603
PHYS6040	Relativity Optics and Maxwell's Equations	15	Autumn	6	PH604
PHYS6050	Thermal and Statistical Physics	15	Spring	6	PH605
PHYS6060	Solid State Physics	15	Spring	6	PH606
PHYS6070	Stars, Galaxies and the Universe	15	Spring	6	PH607
PHYS6170	Physics Project Laboratory	15	Autumn & Spring	6	PH617
PHYS6660	Nuclear and Particle Physics	15	Autumn	6	PH666

PLUS the following extra-curricular compulsory module:

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

**PHYSICS WITH ASTROPHYSICS (4 year)**

**PHYS/ASTRO-4:MPHYS  
UPAP0001X1MI-F**

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	OMR CODE
PHYS6020	Physics Problem Solving	15	Autumn	6	PH602
PHYS6040	Relativity Optics and Maxwell's Equations	15	Autumn	6	PH604
PHYS6050	Thermal and Statistical Physics	15	Spring	6	PH605
PHYS6060	Solid State Physics	15	Spring	6	PH606
PHYS6070	Stars, Galaxies and the Universe	15	Spring	6	PH607
PHYS6210	Analytical Mechanics	15	Autumn & Spring	6	PH621
PHYS6660	Nuclear and Particle Physics	15	Autumn	6	PH666
PSCI7000	Physical Science Research Investigation	15	Autumn & Spring	7	PS700

PLUS the following extra-curricular compulsory module:

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

**PHYSICS WITH ASTROPHYSICS WITH A YEAR ABROAD****PHYS/ASTRO-A:MPHYS****PHYSICS WITH ASTROPHYSICS (4 year)****UPAP0001A2MI-F****PHYS/ASTRO-4:MPHYS****UPAP0001X1MI-F**

Single Honours

**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>OMR CODE</b>
<a href="#">PHYS7000*</a>	Physics Research Project	60	Autumn & Spring	7	<i>PH700</i>
<a href="#">PHYS7090</a>	Space Astronomy and Solar System Science	15	Autumn	7	<i>PH709</i>
<a href="#">PHYS7120</a>	Cosmology and Interstellar Medium	15	Spring	7	<i>PH712</i>

\*Failure in this module may not be compensated.

**PLUS 30 credits from 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>OMR CODE</b>
<a href="#">COMP8220</a>	Introduction to Quantum Computing and Quantum Cryptography	15	Spring	7	<i>CO822</i>
<a href="#">PHYS7520</a>	Magnetism and Superconductivity	15	Autumn & Spring	7	<i>PH752</i>
<a href="#">PHYS7770</a>	Advanced Quantum Mechanics	15	Autumn	7	<i>PH777</i>

**PLUS the following extra-curricular compulsory module:**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>OMR CODE</b>
<a href="#">PSCI7030</a>	Study and Employability Skills for Level 7	1 Non-Contributory	Yearlong	7	<i>PS703</i>