

DIVISION OF NATURAL SCIENCES

All programmes, unless specified in the subject requirements for that programme, require that you take modules amounting to 120 Level 4 Credits in total, 60 credits in Autumn and 60 Credits in Spring

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

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.

SCHOOL OF BIOSCIENCES

- [Biochemistry: BSC](#)
- [Biochemistry with a Sandwich Year: BSC](#)
- [Biochemistry with a Year Abroad: BSC](#)
- [Biology: BSC](#)
- [Biology with a Sandwich Year: BSC](#)
- [Biology with a Year Abroad: BSC](#)
- [Biomedical Science: BSC](#)
- [Biomedical Science with a Sandwich Year: BSC](#)
- [Biomedical Science with a Year Abroad: BSC](#)

SCHOOL OF PHYSICAL SCIENCES

- [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 with a Foundation Year: BSC](#)
- [Chemistry: BSC](#)
- [Chemistry: MCHEM](#)
- [Chemistry with a Year in Industry: BSC](#)
- [Chemistry with a Year Abroad: BSC](#)
- [Forensic Science with a Foundation Year: BSC](#)
- [Forensic Science: BSC](#)
- [Forensic Science: MSCI](#)
- [Forensic Science with a Year in Industry: BSC](#)
- [Forensic Science with a Year Abroad: BSC](#)
- [Physics with a Foundation Year: BSC](#)
- [Physics: BSC](#)
- [Physics: MPHYS](#)
- [Physics with a Year in Industry: BSC](#)
- [Physics with a Year Abroad: MPHYS](#)
- [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.

PROGRAMMES OFFERED BY THE SCHOOL OF BIOSCIENCES

Head of School: Prof Dan Mulvihill
School Website: www.kent.ac.uk/bio

BIOCHEMISTRY
BIOCHEMISTRY WITH A SANDWICH YEAR
BIOCHEMISTRY WITH A YEAR ABROAD
Single Honours

BIOCH:BSC
BIOCH-S:BSC
BIOCH(V2)-A:BSC

STAGE 1 - 120 credits – 60 in Autumn, 60 in Spring

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

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
BI300*	Introduction to Biochemistry	15	Autumn & Spring	4	BIOS3000
BI301*	Enzymes and Introduction to Metabolism	15	Spring	4	BIOS3010
BI302*	Molecular and Cellular Biology I	15	Autumn	4	BIOS3020
BI307*	Human Physiology and Disease	15	Spring	4	BIOS3070
BI308*	Skills for Bioscientists	15	Autumn & Spring	4	BIOS3080
BI3220*	Biological Chemistry B	30	Autumn & Spring	4	BIOS3220
BI324*	Genetics and Evolution	15	Autumn	4	BIOS3240

* Modules cannot be compensated or condoned.

PLUS the following extra-curricular compulsory module:

Compulsory non-contributory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
BI400	Biosciences Academic Support. Key Skills and Information I	1	Autumn & Spring	4	BIOS4000

BIOLOGY
BIOLOGY WITH A SANDWICH YEAR
BIOLOGY WITH A YEAR ABROAD

Single Honours

BIOL:BSC
BIOL-S:BSC
BIOL(V2)-A:BSC

STAGE 1 - 120 credits

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

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
BI300*	Introduction to Biochemistry	15	Autumn & Spring	4	BIOS3000
BI301*	Enzymes and Introduction to Metabolism	15	Spring	4	BIOS3010
BI302*	Molecular and Cellular Biology I	15	Autumn	4	BIOS3020
BI307*	Human Physiology and Disease	15	Spring	4	BIOS3070
BI308*	Skills for Bioscientists	15	Autumn & Spring	4	BIOS3080
BI323*	Diversity of Living Organisms	15	Spring	4	BIOS3230
BI324*	Genetics and Evolution	15	Autumn	4	BIOS3240

* Modules cannot be compensated or condoned.

PLUS the following extra-curricular compulsory module:

Compulsory non-contributory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
BI400	Biosciences Academic Support. Key Skills and Information I	1	Autumn & Spring	4	BIOS4000

PLUS 15 credits from the following optional modules:

BI321 is for students without A2 Chemistry at grades A-C (or equivalent). If you have A2 Chemistry you are required to attend BI3210.

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
BI3210*	Biological Chemistry A	15	Autumn & Spring	4	BIOS3210
BI321*	Biological Chemistry A	15	Autumn & Spring	4	BIOS3211
DI303	Survey & Monitoring for Biodiversity	15	Spring	4	HECO3030
DI311	Principles of Biogeography & Ecology	15	Spring	4	WCON311

* Modules cannot be compensated or condoned.

STAGE 1 - 120 credits – 67.5 in Autumn, 52.5 in Spring

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

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
BI300*	Introduction to Biochemistry	15	Autumn & Spring	4	BIOS3000
BI301*	Enzymes and Introduction to Metabolism	15	Spring	4	BIOS3010
BI302*	Molecular and Cellular Biology I	15	Autumn	4	BIOS3020
BI307*	Human Physiology and Disease	15	Spring	4	BIOS3070
BI308*	Skills for Bioscientists	15	Autumn & Spring	4	BIOS3080
BI324*	Genetics and Evolution	15	Autumn	4	BIOS3240

* Modules cannot be compensated or condoned.

PLUS the following extra-curricular compulsory module:

Compulsory non-contributory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
BI400	Biosciences Academic Support. Key Skills and Information I	1	Autumn & Spring	4	BIOS4000

PLUS 30 credits from the following optional modules:

BI322 is for students without A2 Chemistry at grades A-C (or equivalent). If you have A2 Chemistry you are required to attend BI3220.

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
BI3220*	Biological Chemistry B	30	Autumn & Spring	4	BIOS3220
BI322*	Biological Chemistry B	30	Autumn & Spring	4	BIOS3221

* Modules cannot be compensated or condoned.

PROGRAMMES OFFERED BY THE SCHOOL OF PHYSICAL SCIENCES

Head of School: Prof Nigel Mason

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

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

ASSA:BSC
ASSA-4:MPHYS
ASSA-A:MPHYS
ASSA-S: BSC

Single Honours

STAGE 1 - 120 credits – 60 in each term

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

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH304*	Introduction to Astronomy and Special Relativity	15	Autumn	4	PHYS3040
PH311*	Mathematics I	15	Autumn	4	PHYS3110
PH312*	Mathematics II	15	Spring	4	PHYS3120
PH321*	Mechanics	15	Autumn	4	PHYS3210
PH322*	Electricity and Light	15	Spring	4	PHYS3220
PH323*	Thermodynamics and Matter	15	Spring	4	PHYS3230
PH370*	Laboratory and Computing Skills for Physicists	30	Autumn & Spring	4	PHYS3700

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory non-contributory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS302	Study and Employability Skills for Level 3	1	Autumn & Spring	4	PSCI3020

CHEMISTRY WITH A FOUNDATION YEAR

Single Honours

CHEMISTRY-F-4:BSC

Foundation Year - STAGE 0 - 120 credits – 75 in Autumn, 45 in Spring

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

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH020*	Algebra and Arithmetic	15	Autumn	3	PHYS0020
PH022*	Graphical Methods for Physical Scientists	15	Autumn	3	PHYS0022
PS021*	Molecules and Analysis	30	Autumn	3	PSCI0021
PS022*	Chemical Reactivity	30	Spring	3	PSCI0022
PS023*	Properties of Matter	30	Autumn & Spring	3	PSCI0023

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory non-contributory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS010	Study and Employability Skills for Level 3	1	Autumn & Spring	3	PSCI0010

CHEMISTRY
CHEMISTRY
CHEMISTRY WITH A YEAR IN INDUSTRY
CHEMISTRY WITH A YEAR ABROAD

Single Honours

CHEMISTRY:BSC
CHEMISTRY:MCHM
CHEMISTRY-S:BSC
CHEMISTRY-A:BSC

STAGE 1 - 120 credits – 60 in Autumn, 60 in Spring

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

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH308*	Molecules Matter & Energy	15	Autumn & Spring	4	CHEM3080
CH309*	Fundamental Organic Chemistry for Physical Scientists	15	Autumn	4	CHEM3090
CH314*	Introduction to Biochemistry and Drug Chemistry	15	Spring	4	CHEM3140
CH315*	Disasters	15	Autumn	4	CHEM3150
CH316*	Computing Skills for Modern Data Analysis	15	Spring	4	CHEM3160
CH320*	Chemical Reactions	15	Autumn & Spring	4	CHEM3200
CH382*	Chemical Skills	30	Autumn & Spring	4	CHEM3820

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory non-contributory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS302	Study and Employability Skills for Level 3	1	Autumn & Spring	4	PSCI3020

FORENSIC SCIENCE WITH A FOUNDATION YEAR

Single Honours

FORENSIC-F-4:BSC

Foundation Year - STAGE 0 - 120 credits – 75 in Autumn, 45 in Spring

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

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH020*	Algebra and Arithmetic	15	Autumn	3	PHYS0020
PH022*	Graphical Methods for Physical Scientists	15	Autumn	3	PHYS0022
PS021*	Molecules and Analysis	30	Autumn	3	PSCI0021
PS022*	Chemical Reactivity	30	Spring	3	PSCI0022
PS023*	Properties of Matter	30	Autumn & Spring	3	PSCI0023

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory non-contributory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS010	Study and Employability Skills for Level 3	1	Autumn & Spring	3	PSCI0010

FORENSIC SCIENCE
FORENSIC SCIENCE
FORENSIC SCIENCE WITH A YEAR IN INDUSTRY
FORENSIC SCIENCE WITH A YEAR ABROAD

Single Honours

FORENSIC:BSC
FORENSIC:MSCI
FORENSIC-S:BSC
FORENSIC-A:BSC

STAGE 1 - 120 credits – 52.5 in Autumn, 67.5 in Spring

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

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
CH308*	Molecules Matter & Energy	15	Autumn & Spring	4	CHEM3080
CH309*	Fundamental Organic Chemistry for Physical Scientists	15	Autumn	4	CHEM3090
CH314*	Introduction to Biochemistry and Drug Chemistry	15	Spring	4	CHEM3140
PS301*	Introduction to Forensic Science	15	Spring	4	PSCI3010
PS318*	Skills for Forensic Scientists	15	Autumn & Spring	4	PSCI3180
PS324*	Introduction to Ballistics	15	Autumn & Spring	4	PSCI3240
PS381*	Chemical Skills For Forensic Scientists	30	Autumn & Spring	4	PSCI3810

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory non-contributory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS302	Study and Employability Skills for Level 3	1	Autumn & Spring	4	PSCI3020

PHYSICS WITH A FOUNDATION YEAR

Single Honours

PHYS-F-4:BSC

Foundation Year - STAGE 0 - 120 credits – 60 in each term

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

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
EL021*	Calculus	15	Autumn & Spring	3	EENG0021
EL024*	Electromagnetics for Engineers	15	Spring	3	EENG0024
PH020*	Algebra and Arithmetic	15	Autumn	3	PHYS0020
PH022*	Graphical Methods for Physical Scientists	15	Autumn	3	PHYS0022
PH023*	Motion & Mechanics	15	Autumn	3	PHYS0023
PH025*	Waves and Vibrations	15	Spring	3	PHYS0025
PH026*	Properties of Matter	15	Spring	3	PHYS0026
PH027*	Introductory Physics Laboratory and Communication Skills	15	Autumn & Spring	3	PHYS0027

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory non-contributory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS010	Study and Employability Skills for Level 3	1	Autumn & Spring	3	PSCI0010

PHYSICS
 PHYSICS
 PHYSICS WITH A YEAR IN INDUSTRY
 PHYSICS WITH A YEAR ABROAD
 Single Honours

PHYS:BSC
 PHYS-4: MPHYS
 PHYS-S:BSC
 PHYS-A:MPHYS

STAGE 1 - 120 credits – 60 in each term

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

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH304*	Introduction to Astronomy and Special Relativity	15	Autumn	4	PHYS3040
PH311*	Mathematics I	15	Autumn	4	PHYS3110
PH312*	Mathematics II	15	Spring	4	PHYS3120
PH321*	Mechanics	15	Autumn	4	PHYS3210
PH322*	Electricity and Light	15	Spring	4	PHYS3220
PH323*	Thermodynamics and Matter	15	Spring	4	PHYS3230
PH370*	Laboratory and Computing Skills for Physicists	30	Autumn & Spring	4	PHYS3700

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory non-contributory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS302	Study and Employability Skills for Level 3	1	Autumn & Spring	4	PSCI3020

PHYSICS WITH ASTROPHYSICS
 PHYSICS WITH ASTROPHYSICS
 PHYSICS WITH ASTROPHYSICS WITH A YEAR ABROAD
 PHYSICS WITH ASTROPHYSICS WITH A YEAR IN INDUSTRY
 Single Honours

PHYS/ASTRO:BSC
 PHYS/ASTRO-4: MPHYS
 PHYS/ASTRO-A: MPHYS
 PHYS/ASTRO-S: BSC

STAGE 1 - 120 credits – 60 in each term

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

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PH304*	Introduction to Astronomy and Special Relativity	15	Autumn	4	PHYS3040
PH311*	Mathematics I	15	Autumn	4	PHYS3110
PH312*	Mathematics II	15	Spring	4	PHYS3120
PH321*	Mechanics	15	Autumn	4	PHYS3210
PH322*	Electricity and Light	15	Spring	4	PHYS3220
PH323*	Thermodynamics and Matter	15	Spring	4	PHYS3230
PH370*	Laboratory and Computing Skills for Physicists	30	Autumn & Spring	4	PHYS3700

*Failure in this module may not be compensated.

PLUS the following extra-curricular compulsory module:

Compulsory non-contributory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	Office Use Only
PS302	Study and Employability Skills for Level 3	1	Autumn & Spring	4	PSCI3020