DEPARTMENT OF STATISTICAL SCIENCE



Undergraduate Student Handbook

2023/24

DEPARTMENT OF STATISTICAL SCIENCE UNDERGRADUATE STUDENT HANDBOOK

The *Department of Statistical Science Undergraduate Student Handbook* has been written for undergraduate students admitted by the Department of Statistical Science to study for one of the following degrees:

BSc Data Science (UCAS code (G303)

BSc Statistics (UCAS code G300)

BSc Statistics, Economics and Finance (known as SEF, UCAS code GLN0) BSc Statistics, Economics and a Language (known as SEL, UCAS code GLR0) BSc Statistics and Management for Business (known as SAMB, UCAS code GN32) BSc (Econ) Economics and Statistics (known as Econ/Stats, UCAS code LG13) MSci Statistical Science (International Programme) (UCAS code G305)

The contents also provide information for undergraduate students studying Statistical Science as part of the following degrees:

BSc Mathematics and Statistical Science (known as MASS, UCAS code GG13) **MSci Mathematics and Statistical Science** (known as MASS, UCAS code GGC3)

Students on the Econ/Stats, MASS and SAMB degree programmes will also need to refer to the corresponding information published respectively by the Departments of Economics and Mathematics, and the School of Management.

Some of the contents are also relevant to students admitted by the Department of Statistical Science to study for academic credit as part of an **undergraduate affiliate programme**, either for the whole year, or for the second and third terms only.

The Department of Statistical Science Undergraduate Student Handbook is intended to provide particular information for students registered for the degrees listed above. General information about studying at UCL is given in the <u>UCL Academic Manual</u> and <u>UCL Students</u> sections of the UCL website. It is important that you are aware of these resources.

The information given in this handbook is as far as possible accurate at the date of publication, but the Department reserves the right to make amendments before the commencement of, or during, the academic session to which it refers. Information concerning College regulations and procedures is given for guidance only and is not intended as a substitute for that contained in the UCL Academic Manual and on the main UCL website (available from the web addresses linked above).

Department of Statistical Science, University College London, September 2023.

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PROVOST'S WELCOME

Dear students,

A warm welcome to those of you who are new and congratulations on making UCL your university of choice. To those of you returning, welcome back.

Your UCL education will take you deep into your chosen field and give you its broader context in our rich multidisciplinary academic culture. It will help you develop skills and networks to prepare you for your future.

We want you to learn how to think, not what to think, through UCL's research-based approach to education. Our students are our partners and contributors, working alongside world-leading academic staff to pursue excellence, break boundaries and make an impact on global challenges.

I warmly encourage you to shape your journey at UCL. Take our university-wide surveys and work in partnership with academics to make your programme of study even better. Each programme also has opportunities for you to volunteer as an academic representative to work closely with your department to improve the student experience.

This is an exciting time to make your voice heard, with our recently opened campus at UCL East and work underway on implementing our 2022-2027 strategic plan for education. Preparations have also begun on marking UCL's bicentennial in 2026 and our student partners will be involved in planning an inspiring programme of events to celebrate this landmark anniversary.

UCL is a community of great minds. You are a valuable member of that community. I hope you will take every opportunity to shape your time with us, so that your experience is the best possible.

Dr Michael Spence UCL President and Provost

DEPARTMENT OF STATISTICAL SCIENCE

The Department of Statistical Science is a constituent department of the Faculty of Mathematical and Physical Sciences (abbreviated to MAPS). Some information about the Department is provided on the <u>Departmental website</u>. The Department of Statistical Science is located on the first and second floors of <u>1-19 Torrington Place</u>. Staff offices are all in this location and the Teaching & Learning Office can be found in room 123 on the first floor.

Staff

Academic and teaching staff

Prof Gianluca Baio (Head of Department)

Dr Niloufar Abourashchi Prof Gareth Ambler Dr Julie Barber Dr Tom Bartlett Dr Andres Benchimol Prof Alexandros Beskos Dr Francois-Xavier Briol Dr Purvasha Chakravarti **Prof Richard Chandler** Dr Alessandra Cipriani Prof Codina Cotar Prof Maria De Iorio Prof Petros Dellaportas Dr Karla Diaz-Ordaz Dr Alex Donov Dr Nuru Giritli Prof Jim Griffin

Prof Serge Guillas Dr Nicolas Hernandez Dr Tom Honnor Dr Takoua Jendoubi Dr Elinor Jones Dr leva Kazlauskaite Dr Jeremias Knoblauch Dr Brieuc Lehmann Dr Baptiste Leurent Dr Sam Livingstone Dr Chak Hei Lo Dr Sebastian Maier Prof Ioanna Manolopoulou Prof Giampiero Marra Dr Robin Mitra Dr Paul Northrop Prof Rumana Omar

Dr Menelaos Pavlou Dr Yvo Pokern Dr Matina Rassias Dr Omar Rivasplata Dr Javier Rubio Alvarez Dr Kayvan Sadeghi Dr Cemil Selcuk Prof Ricardo Silva Dr Emma Simpson Dr Terry Soo Dr Katerina Stavrianaki Prof Ardo van den Hout Dr Alexander Watson Dr Hilde Wilkinson-Herbots Prof Jinghao Xue

Teaching & Learning Office staff

Cassandra Wood (Departmental Manager)

| Stephanie Dickinson | Charlotte Lee | Marina Lewis |
|---------------------|---------------|---------------|
| Dr Russell Evans | Karen Leport | Agnes Somogyi |
| Anfaal Goolamally | | |

Staff with particular responsibility for undergraduate students

Departmental Tutor

The Departmental Tutor is responsible for the day-to-day running of the six Statistical Science BSc degree programmes (i.e. Data Science, Statistics, SAMB, SEF, SEL and Econ/Stats), as well as the MSci International Programme.

The equivalent responsibility for the MASS degree programmes is held by the Departmental Tutor in the Mathematics Department. However, the Departmental Tutor in the Statistical Science Department acts as the Statistics Tutor to MASS students, whom they may consult about the Statistics modules in their degree programme.

The Departmental Tutor is **Dr Niloufar Abourashchi** (<u>n.abourashchi@ucl.ac.uk</u>).

Programme Administrator

The Programme Administrator works closely with the Departmental Tutor and is the first point of contact for many aspects of your studies. For example, you should contact the Programme

Administrator to notify absence from college, to submit medical documentation or to change a module registration.

The Programme Administrator is Karen Leport (stats.ugt@ucl.ac.uk).

Personal Tutor

UCL is committed to providing all students with the academic guidance and personal support that they need to flourish as members of our active learning and research community. As part of the wider support infrastructure provided by a programme, every undergraduate student will be assigned a member of staff who can provide constructive academic and personal development guidance and support.

At the start of the year, students will be provided with the name of their personal tutor, and information about how meetings will work. Students are encouraged to be proactive in engaging with their personal tutor: make sure you reply to emails from your personal tutor in a timely manner and always let them know if you can't attend a meeting. It's important to build a relationship with your tutor so that you feel comfortable approaching them, should problems arise. Your personal tutor can also provide academic references for you, which is an important reason to build a professional relationship with them.

Your Personal Tutor's name is shown on your Portico record (see "Portico" section on page 10) and it is expected that it will be the same person throughout the whole of your degree programme.

Further information:

Personal tutors

Student Adviser

UCL Student Advisers are a key contact for first-year undergraduates for any wellbeing, support and student experience matters (see page 57).

The Student Adviser is Charlotte Lee (charlotte.lee@ucl.ac.uk).

Other relevant staff roles

| Careers Tutor: | Dr Niloufar Abourashchi |
|---|-------------------------|
| Study Abroad Tutor: Tutor to Affiliate students: | Dr Sebastian Maier |
| Co-chair of Staff-Student Committee: | Dr Yvo Pokern |
| Chair of Departmental Teaching Committee: | Prof Ardo van den Hout |

If you become unhappy with your degree programme, or a particular module, or with your progress, or if you cannot cope, or have other problems, you should immediately discuss the matter with one of the staff members listed above. Such problems are often much simpler to deal with if they are addressed immediately. You will be redirected to an appropriate person for more specialist advice if that is necessary.

How UCL and the Department will communicate with students

UCL will communicate with students via:

- <u>UCL student email</u> Students should check their UCL email regularly.
- <u>UCL Moodle</u> UCL's online learning space, used by module organisers, programme leaders, departments and faculties to provide essential information in addition to learning resources.

- <u>myUCL</u> A weekly term-time e-newsletter to all students (undergraduate and postgraduate) at UCL, which covers key internal announcements, events and opportunities.
- <u>UCL Instagram</u> UCL's official Instagram channel, featuring news, events, competitions and images from across the UCL community.
- <u>@ucl Twitter channel</u> Sharing highlights of life at UCL from across UCL's diverse community.

Email

Email is used for communication throughout the College and you will be allocated an email address by UCL. Please check your <u>UCL email account</u> regularly. There may be urgent messages left for you, e.g. from Student and Registry Services, the Teaching & Learning Office, your Personal Tutor, or from staff teaching modules that you attend.

Your tutors, lecturers and College administrative staff will use your **UCL email address** and expect you to read and act promptly upon all messages sent to you at this address. If you wish to use only your own email address from a provider external to the College, then it is your responsibility to arrange for emails to be forwarded from your College email address. However, UCL cannot be held responsible for mail that is delayed or lost as a result of being forwarded to an external provider. Any consequences arising from not acting upon emails to your UCL address rest with you.

DOSSSH

The Department maintains a Moodle space called the "Department of Statistical Science Student Home" (DOSSSH) to which all Statistical Science students have access. Please check the DOSSSH page regularly. The DOSSSH page contains notices about modules, examinations and other useful information about the Department, as well as downloadable forms and links to resources that are described elsewhere in this handbook.

Processing of personal information

Whilst you are a student at UCL, the College will need to store and communicate information about you. This section summarises UCL and Departmental procedures with respect to such information.

How UCL uses student information

UCL uses student information for a range of purposes, including the provision of teaching and learning, managing accommodation and ensuring health and safety. Further information about how UCL uses student information can be found in the UCL General Student Privacy Notice.

Further information:

- UCL Student Privacy Notice
- UCL Information Security Group
- UCL Policy on Electronic Mail (EMAIL)
- Data Protection
- <u>Understanding your Intellectual Property (IP) Rights</u>

Students may send queries on data protection matters to the University Data Protection Officer: <u>data-protection@ucl.ac.uk</u>.

Portico

Portico is the main UCL student information system which is used by all students for:

- Updating personal data such as addresses or contact numbers
- Completing online module registration
- Viewing information about programmes/modules
- Viewing module results
- Pre-enrolment and re-enrolment
- Applying for programme transfer
- Planning and recording skills development
- Applying for graduation ceremonies

Further information:

- Portico login
- What is Portico
- Portico support

If you need a document that can be used to <u>confirm your registration status at UCL</u>, you can print out a statement of student status letter via Portico. Just log into Portico and click on the Statement of Student Status link on your Portico home page. Alternatively you can send a request via <u>askUCL</u> or by email to <u>studentstatus@ucl.ac.uk</u>. Please note that the Department will **NOT** issue certificates of student status or attendance.

It is your responsibility to ensure that your personal details held on the UCL central record are correct and up-to-date. Instructions on how to <u>update your personal information</u> can be found on the UCL Students website. **Any consequences arising from the failure to correct or update your personal information rest with you.**

References

When you give either the Department's or a tutor's name as a referee, it is important that you complete and sign a "Reference Request" form confirming that you have done so. This applies to **all** references, (e.g. for a landlord, a prospective employer or a Masters degree programme). The form is available from the DOSSSH Moodle page (see page 10).

CALENDAR OF EVENTS

UCL term dates

Terms for the 2023/24 session are based on the pattern of 12 weeks, 11 weeks and 7 weeks.

| First Term | Monday 25 September 2023 – Friday 15 December |
|-------------|---|
| | 2023 |
| Second Term | Monday 08 January 2024 – Friday 22 March 2024 |
| Third Term | Monday 22 April 2024 – Friday 07 June 2024 |

For those departments that operate them, Reading Weeks are the weeks beginning Monday 06 November 2023 (Term 1, Week 7), and Monday 12 February 2024 (Term 2, Week 6).

| Christmas College | Close 17:30 Friday 22 December 2023 |
|------------------------|-------------------------------------|
| Closure | Open 09:00 Tuesday 02 January 2024 |
| Easter College Closure | Close 17:30 Wednesday 27 March 2024 |
| - | Open 09.00 Thursday 04 April 2024 |
| Bank Holidays | Closed - Monday 06 May 2024 |
| | Closed - Monday 27 May 2024 |
| | Closed - Monday 26 August 2024 |

Further information:

• Term dates and closures 2023/24

Key dates

Term 1

- Week 1: New students carry out *College enrolment* and *module registration*. *College enrolment* is organised by Student and Registry Services, who send you information about the procedure before the start of the term. *Module registration* is done using the online Portico system. The procedure will be explained to you during induction (see also "Selecting Modules" section on page 21).
- Week 2: Beginning of *lectures* for all modules in the Department of Statistical Science.
- Week 5: This is the deadline for making Term 1 module amendments.
- Week 7: This is *Reading Week*. Classes in the Department of Statistical Science are replaced by self-study activities, including some set by the module lecturers. Note that not all departments observe reading week and you **must** attend classes given in other departments if they continue during this time.
- Week 11: This is the deadline for making Term 2 module amendments.
- Week 12: End of all Term 1 *teaching* in the Department of Statistical Science.

Term 2

- Week 1: Beginning of *lectures* in the Department of Statistical Science. Students should check their online timetable for the Term 2 tutorial arrangements, and also check for any other timetable changes that may have occurred.
- Week 6: This is *Reading Week*. Refer to the corresponding item in Term 1 for details.
- Week 11: End of all *teaching* in the Department of Statistical Science.

Term 3

- The *main examination period* spans the majority of this term. The exact dates will be published on the <u>Exams and assessments</u> webpage nearer to the time.
- Continuing students begin *selecting their preferred modules* for the following year of study (see "Selecting Modules" section on page 21).

TEACHING AND STUDYING ARRANGEMENTS

Modules

Modules are self-contained, credit-rated blocks of learning and teaching that make up a degree *programme*. A student normally takes modules equivalent to 120 credits in each year of full-time study; most individual modules are worth either 15 or 30 credits. Most Statistical Science modules consist of *lectures* supplemented by at least one of the following: *tutorials, workshops, problem classes*. The proportions of these activities vary over modules; details are provided in the <u>UCL Module Catalogue</u>. A few modules are *projects*.

Some new students will find they do not need to make selections as all their modules are compulsory in year 1. If students need to choose modules, information about how and when to do this is provided later in the handbook (see "Selecting Modules" section on page 21).

Timetable

The combined teaching schedule for all your modules, plus any programme level events, can be found on your <u>personal online timetable</u>. After making your module selections on Portico,

tutorial allocation will be arranged by the relevant Teaching & Learning Administrator before lessons start and your tutorial group will automatically appear in your online timetable. However, it may take one or two days after registration has been approved before all of the classes appear on your personal timetable, particularly for tutorials. Check your timetable frequently, in case alterations have been made. Note also that, once allocated, your tutorial group will **not** be changed unless you can demonstrate a timetable clash, or you have switched your mode of attendance between on campus and online.

Although the timetable states that lectures (and other classes) begin and end on the hour, there is a College-wide agreement that events will **commence on the hour** and will **end at ten minutes to the hour**. This should give you time to get to your next lecture before it is due to start.

Scheduled teaching and learning activities

This section details the various teaching event types commonly employed in the delivery of Statistical Science modules. For other modules, refer to the corresponding information published by the relevant teaching department.

Lectures

These are formal and can involve large groups. Equivalent content will also be made available on Moodle through videos and other forms of material.

Tutorials

Weekly academic tutorials are provided for all first and second year and some final year students. These are less formal than lectures and enable you to raise your own questions about course material, as and when they arise from lectures or exercise sheets. You normally have different academic tutors in Terms 1 and 2.

Problem classes

These involve discussing work with the whole class.

Workshops

Workshops, also referred to as "practical classes" within the Department, involve doing set work under guidance from the module staff. Some workshops will take place in (virtual) computer cluster rooms.

Projects

These normally involve a small amount of class training. Most of the work is done under individual supervision from a staff member whom you meet once a week to discuss your progress.

Drop-in hours

For modules offered by the Department of Statistical Science, each member of the academic and teaching staff should nominate at least one weekly drop-in hour during term time in which they will be available to answer general queries arising from lectures, problem sheets, etc. If you need to consult a module lecturer, please do so in a drop-in hour. In particular, in the period leading up to any assessment (see "In-Course Assessment" section on page 44) the module lecturer will set aside a fixed time or times at which they will be available to answer questions about the assessment. They will **not** answer queries about the module outside these times until the assessment is over.

Learning resources and key facilities

UCL Library Services

UCL Library Services provides support to students online and in person via our libraries. UCL has 14 libraries covering a wide range of specialist subjects with expert staff that students can ask for help. UCL Library Services provides access to a huge range of digital and print resources. The UCL Library Services page has information for students about using the library, services available, electronic resources and training and support. Subject guides provide targeted information on resources and support available, and online reading lists, which are also linked to Moodle modules, will provide students with access to core readings for their modules.

The Science Library (in the DMS Watson building, Malet Place) contains an exceptionally good collection of statistical science text and reference books. Copies of most books that are highly recommended for modules taught by the Department are included in the Short Loan Collection on the ground floor in the Science Library. The Collection consists of all subjects of the Science Library and is arranged on open access shelves in one alphabetical sequence under authors. The period of loan for statistical science books is 2 days. Books cannot be taken out of the room without being issued. Other recommended books, for which there is less demand, are kept on the third floor of the Science Library. The loan period assigned to these is one week. There are longer loan periods for other books.

UCL Library Services has developed a set of <u>online training materials</u>, to help users find and use information effectively. Topics covered include finding materials in reading lists; search tips and techniques; accessing electronic resources; referencing; and copyright and plagiarism issues.

Further information:

- Discover UCL Library Services
- Library subject guides
- <u>ReadingLists@UCL</u>

UCL Information Services Division (ISD)

The UCL Information Services Division (ISD), the primary provider of IT services to UCL, offers guidance on all of ISD's key services, including email and calendar services, user IDs and passwords, print, copy and scanning, wifi and networks on their web pages. 'How to' guides and individual <u>help and support</u> is available from IT Services.

There are also opportunities for <u>digital skills development</u> through face-to-face training in areas such as data analysis, programming, multimedia and graphics packages and more. UCL also has a licence for <u>Linkedin Learning</u> which provides thousands of high quality videobased courses from programming to presentation skills. <u>Learning on Screen</u> ("bob") provides students with access to an archive of 65 free-to-air channel programming for educational usage. In addition, <u>Kanopy</u> ("thoughtful entertainment") is available to UCL students, and offers a wide range of movies.

New students are encouraged to complete the '<u>Digital Education at UCL</u>' course which is available on Moodle, UCL's virtual learning environment, to familiarise themselves with the tools and technology available to support their digital learning experience.

ISD provides desktop computers and laptops for loan in a number of learning spaces. Computers at UCL run a Desktop@UCL service which provides access to hundreds of software applications to support students. Students also have access to a range of free and discounted software. Visit the <u>IT Essential for new students</u> page for details of all IT services available. All students are encouraged to download the <u>UCL Go! app</u>, available for iOS and Android devices and on the web. The app gives access to the timetable, Moodle, email, Portico, and library loans. It has maps to locate lecture theatres, water fountains, computers and study spaces on campus. It has checklists of things students need to do and sends important alerts, as well as having opt-in notifications on topics of interest. You can also see lists of events hosted by the UCL Students' Union and UCL departments.

UCL Centre for Languages & International Education (CLIE)

The UCL Centre for Languages & International Education (CLIE) provides modern foreign language, British Sign Language and English for Academic Purposes (EAP) modules for UCL students. CLIE also heads the UCL Academic Communication Centre (ACC). The ACC offers discipline-specific academic communication support to both native and non-native English speakers currently studying an undergraduate or postgraduate degree at UCL. Evening courses are offered in nine foreign languages across a range of levels to support UCL students, staff and London's wider academic and professional community. Students can access language-learning resources online through the CLIE Self-Access Centre, including films and documentaries and books for self-study.

Further information:

- UCL Centre for Languages & International Education
- <u>CLIE Self-Access Centre</u>
- <u>Academic Communication Centre (ACC)</u>

Sustainable UCL

UCL launched its Sustainability Strategy in 2019 – one of the most ambitious across the UK higher education sector. It includes many headline commitments – to be a net zero carbon institution by 2030; to be single use plastic free; and that every student has the opportunity to engage with sustainability during their time at UCL. The Sustainable UCL team offers students many different opportunities to learn about sustainability as part of their studies or extracurricular activities.

In particular, students can engage with sustainability in their free-time by joining one of UCL's green clubs and societies or taking part in UCL's Student Sustainability Council to help direct UCL's sustainability vision and represent the students' voice on sustainability.

Further information:

- Sustainable UCL Website
- Sustainability Student Opportunity Website
- Green clubs and societies
- <u>Student Sustainability Council</u>

Moodle

Moodle is UCL's online learning space. It includes a wide range of tools which can be used to support learning and teaching. Moodle is used to supplement taught modules, in some cases just by providing essential information and materials, but it can also be integrated more fully, becoming an essential component of a module. Some modules may use Moodle to provide access to readings, videos, activities, collaboration tools and assessments.

All modules in the Department of Statistical Science will have a presence on Moodle, and students registered for these modules should use the service to access online resources such as module information, course notes and assessment material. Students are given additional printing credits, to allow them to print copies of the lecture notes for each of their statistics modules.

Further information:

- UCL Moodle
- Moodle Frequently Asked Questions
- Moodle Quick Start Guide for Students

Calculators

UCL has approved a standard calculator for use in invigilated examinations, which has solar and battery powered variants: Casio FX-85GT X (solar) and FX-83GT X (battery). If you already own one of the following older, discontinued models of the same calculator, you are still permitted to use it: Casio FX83ES, FX83GT+, FX83MS, FX83WA, FX85ES, FX85GT+, FX85GTCW, FX85MS and FX85WA. The use of a non-approved calculator constitutes an examination offence and carries potentially severe penalties.

Statistical tables

Statistical tables may be provided by the College for use in invigilated examinations set by the Department. The currently provided tables are *New Cambridge Statistical Tables* by D.V.Lindley & W.F.Scott.

Feedback on student work

Students receive feedback on all items of assessed work (see "Components of Compulsory Assessment" section on page 44) and on selected items of non-assessed work. Feedback may be given in tutorials, problems classes or electronically. It may take the form of verbal or written comments, either personalised or in the form of general points that emerged from the class as a whole. These comments are intended to help you see what was done well and where there is room for improvement. For assessed work, the comments are also provided to help justify the grade awarded.

For assessed work, feedback will include a *provisional* letter grade. The correspondence between letter grades and percentage marks, along with guidance regarding the interpretation of each grade, is as follows:

| Grade | Mark | Interpretation |
|-------|---------------------|--|
| A+ | ≥ 80.00% | The criteria for an A grade are all met. Additionally, exceptional quality has been demonstrated with respect to at least two of the following: understanding, insight, depth of analysis or clarity of discussion, with evidence (where appropriate) of relevant knowledge or reading. |
| A | 70.00% to 79.99% | The criteria for a B grade are all met, along with one or more of the following: high quality answers in a wide range of questions, evidence of a very sound understanding, thoroughness of discussion and clarity of expression, evidence of insight, wide knowledge or reading. There may be a small number of relatively minor errors or inconsistencies, but there should not be serious errors in knowledge or understanding. |
| В | 60.00% to 69.99% | Good understanding of the questions asked, good knowledge of the main aspects of the subject and good levels of appropriate skills (such as the ability to carry out calculations and manipulations, and to develop a logical argument). At the higher end of the range, one would expect to see clear expression and presentation. A few mistakes are allowable, providing they are not serious. |

| Grade | Mark | Interpretation |
|-------|---------------------|--|
| С | 50.00% to 59.99% | Reasonable understanding of the subject, and a reasonable level of ability in the appropriate skills. Work in this category may fail to reach Grade B either because it does not demonstrate a wide enough range of knowledge (e.g. some good answers, but too many questions or part questions either omitted or answered inappropriately), or because skill deficiencies lead to too many mistakes or badly presented answers. |
| D | 40.00% to 49.99% | Basic but limited understanding of the subject, together with some basic ability in the appropriate skills. There may be many mistakes, but there will be clear evidence of some relevant knowledge. |
| F | 1.00% to 39.99% | Not of pass standard. At the higher end of the scale a very limited understanding may be present, but answers will present little evidence of relevant knowledge and contain many mistakes, irrelevancies or misunderstandings. At the lower end, answers will show little or no understanding of either the questions or the subject. |
| AB | ≤ 0.99 | No/ minimal attempt. Marks in this range are awarded to students who are absent or do not submit an assessment, or attempt so little of it that it cannot be assessed. |

Model answers

Many Statistical Science modules have regular sets of exercises. These are designed to help students learn and, in most modules, it is essential that students do the exercises in order to understand the subject. Module lecturers are often asked to provide model answers to the exercise sheets. There is a similar demand for model answers to past exam papers. Lecturers do provide model or outline answers to some exercises and to some exam questions, but it is Departmental policy **not** to do so in general, for a number of reasons:

- We do not want to encourage students to "learn answers" but rather to create a culture in which they know that they must work out the answer for themselves. Often it is not the answer, but the process of working it out that is the main learning experience.
- We are trying to encourage independent thought and understanding, so that students can answer (more or less well) different questions, similar questions in different forms, and to solve related problems. Understanding in statistical science, and in mathematics, comes much more from doing than from reading.
- It is important for students to learn how to persevere with a problem when they are "stuck". In the past, we have found that model answers handed out in one year are often passed on to students in a subsequent year, to the detriment of the learning process.

A common argument put forward by students is "Yes, we want to do the exercises, but we would like model answers in order to check that we have the right method and answer". Of course it can sometimes be helpful to look at answers, but it is also important to learn how to verify answers when they are not otherwise available, and to gain the confidence to know when you are right. One function of tutorials is to discuss problems or work through them with the teacher, and this is one way in which answers may be obtained. Part of the skill of the teacher is to help the student to progress without "spoon feeding" the answer. Having said all of this, the Department recognises that while preparing for examinations in particular, it can be useful for students to have the final answers (rather than complete solutions) to past exam questions: this provides some confidence that the answers obtained while attempting past papers are correct. All teaching staff should provide such "final" answers routinely, for at least one actual or sample paper that is representative for the current course content, via their module Moodle pages (see page 15).

WHAT IS EXPECTED OF STUDENTS

Student code of conduct

UCL enjoys a reputation as a world-class university. It was founded on the basis of equal opportunity, being the first English university to admit students irrespective of their faith and cultural background and the first to admit women. UCL expects its members to refrain from interfering with the proper functioning or activities of UCL, or of those who work or study at UCL. Students should ensure they read and familiarise themselves with UCL's Student Code of Conduct and other related policies and should be aware that any inappropriate behaviour may lead to actions under UCL's Student Disciplinary Procedures.

Further information:

- UCL Code of Conduct for Students
- UCL Disciplinary Code and Procedure in Respect of Students
- UCL Prevention of Bullying, Harassment and Sexual Misconduct Policy
- UCL Code of Practice on Freedom of Speech
- UCL Religion and Belief Equality Policy

Attendance requirements

UCL expects students to attend all the scheduled learning events which appear on their timetable as this gives students the best chance of academic success. This includes all events set out in the programme handbook or those provided to students during a module, including personal tutorials. A new attendance policy is currently under development and will be available from the main <u>Students' webpages</u>.

Until that policy is published, the Department of Statistical Science has adopted the following threshold attendance requirements:

- more than 50% of a student's timetabled teaching events over a 14 day period.
- minimal one attendance of a student's timetabled teaching events over a 7 day period.

Attendance will be monitored via <u>RegisterUCL</u>, but students will not be disadvantaged if RegisterUCL fails to record their attendance correctly, for example at venues where there are no working card readers.

Absence from assessment

Any student who is absent from an assessment without prior permission will receive a mark of 0.00% unless they formally request to defer their assessment to a later date by submitting a claim for Extenuating Circumstances with appropriate supporting evidence where necessary (see page 43). If Extenuating Circumstances are not approved, the mark of 0.00% will stand and the student will be considered to have made an attempt.

Visa students: absence from teaching and learning activities

In line with UCL's obligations under UK immigration laws, UCL is required to report to UK Visas and Immigration (UKVI) when a student has not been engaging with their studies. RegisterUCL is used by departments and the central Student Immigration Compliance team to report on student attendance. This is not only to meet the UKVI requirements, but also to identify any problems as early as possible to ensure action is taken to advise or assist the student.

Further information:

• Student visa responsibilities

Studying

Tutorials

Tutorials in the Department of Statistical Science are **compulsory** and provide the opportunity to get personal attention. It is important to prepare yourself by reading through the latest lecture material and trying the relevant exercises sheets **before** the tutorial. Think of questions relating to the course material to ask; make a note of points that you don't understand so that you can have them clarified in tutorials. Have your recent lecture notes and exercise sheets to hand for each tutorial, in particular those relating to material that you know will be discussed.

Lectures, workshops and problem classes

Most new material is presented in lectures; some might be introduced by your trying ideas in workshops. The workshops give the opportunity to solve problems with guidance, a helpful alternative method of learning. In most modules learning is sequential; you need to have met and understood past material in order to follow the current material. You are therefore strongly advised to attend all classes. Teaching staff and demonstrators are able to give some personal attention in workshops; absences are likely to be noted.

Staff sometimes receive complaints from students about disruption (caused by other students) in large classes. All students are respectfully asked to consider others when in the classroom: excessive disruption can have a negative impact on the learning experience for everybody. Any student who is persistently disruptive will be asked to leave the classroom, and will receive an official warning from the Departmental Tutor with an appropriate note placed on the student's record.

Exercise Sheets

In the Department of Statistical Science regular, often weekly, exercises are set. Some of this is for in-course assessment, but much of it is to help you to learn the material being taught. You will normally receive feedback on exercise sheets during problem classes, tutorials or workshops, as appropriate for the module. You will generally be expected to hand in your work so that we can monitor your progress. The detailed arrangements for exercises will vary between modules and you will be told about them at the start of each module. You should ensure that you know what is required for each module that you take.

Our teaching assumes that you have attempted the exercise sheets, and we may refer to them in subsequent classes and exercise sets. In-course assessment is compulsory: it contributes to your final mark for that module and non-submission may mean that you cannot pass the module (see "Assessment" section on page 44). Furthermore, for modules with tutorial classes your tutor will record whether you have submitted each piece of non-assessed work by the specified deadline and whether it is a reasonable attempt (i.e. an attempt of pass standard). The Department of Statistical Science expects a reasonable attempt for at least 70% of non-assessed work in each module. If you fail to satisfy this requirement you may be referred to the Departmental Tutor for potential intervention via the Support to Study Procedure.

Ensure that you leave yourself enough time to complete each exercise sheet. Weekly sets of exercises may well need about 5 hours work on them, including reading time. In some modules, more substantial sets of exercises are given out on a fortnightly basis: it is recommended that you start them in the **first** of the two weeks allowed. A prompt start to exercises set for in-course assessment is well advised.

It is good practice to aim for legibility, accuracy and clarity in your solutions to exercise sheets, whether or not they are for in-course assessment (the same applies to examinations, of course!).

Self study

Before a live session, study the material on Moodle, such as videos and notes, carefully. Work through the details slowly and annotate your notes in a different colour to that used in taking them; this can help with revision. It is important to keep on top of each module by reviewing the appropriate notes **before** the next class (lecture, tutorial, problem class or workshop). Read supporting material from textbooks as necessary.

The following will help you understand and communicate your understanding of course material:

- continual practice at solving problems;
- thorough preparation for all classes;
- regular revision of course material as the module progresses;
- seeking help when you have difficulties.

The Department has prepared a self assessment questionnaire to help you to evaluate what you are getting out of your studies and to take responsibility for your own progress. This questionnaire is available on the DOSSSH Moodle page (under the Student Feedback topic). Try completing it for each module during reading week.

Total workload

For a typical 15 credit module, you should expect a workload of about 9 or 10 hours per week – this includes lectures, workshop, problems class, tutorial, reading and exercise sheets, as appropriate for each module. For example, if you are studying the equivalent of four 15 credit modules per term, your total weekly workload is expected to be around 40 hours.

As part of monitoring your own progress, you may find it helpful, in some weeks, to keep a diary of the time you spend actively working.

DEGREE PROGRAMME SPECIFICATIONS

Modules

Modules are the individual units of study that lead to the award of credit. Many programmes offer students the opportunity to choose between different modules that they are interested in. However some new students will find they do not need to make selections as all their modules are compulsory in year 1.

Module codes

Each module has a code: this consists of a four character prefix that indicates the department responsible for organising the teaching of that module, followed by four numbers to provide a unique code within that department. Modules in Statistical Science have the prefix STAT.

Levels of modules

All UCL modules have an associated academic *level* that determines the difficulty of the module and aligns with the Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies (FHEQ). These levels are as follows:

- Level 4 (the level of most first year modules)
- Level 5 (the level of most second year modules)
- Level 6 (the level of most third year modules)
- Level 7 (the level of all fourth year MSci modules)

The levels of all modules offered by the Department of Statistical Science are given in the UCL Module Catalogue (see next section). Students must take modules at an appropriate level for the degree programme for which they are registered (see "Award and Classification" section on page 53). For example, in order to qualify for a Bachelors degree with honours, a student must have taken a maximum of 150 credits at Level 4 and a minimum of 90 credits at Level 6 over their entire programme.

UCL module catalogue

UCL's module catalogue gives access to a comprehensive catalogue of all modules across the whole of UCL, published in a consistent, searchable and accessible format.

The entries for Statistical Science modules include outline syllabuses. Some indication is also usually given of areas where the course material may be applied in practice; this is to help students decide which options might be most suitable for them.

Further information

UCL Module Catalogue

Language modules

Language modules for Statistical Science students are available at the UCL Centre for Languages & International Education (CLIE). Languages include: Arabic, Dutch, French, German, Italian, Japanese, Mandarin, Portuguese, and Spanish.

Languages are offered as 15 credit modules across 7 language levels from complete beginner to professional. Two levels may be combined to form a 30 credit module. The correspondence between language levels and those described on page 20, and a full module listing are available on the <u>CLIE website</u>.

The CLIE tutors will assist students in selecting the right language level as part of the registration process. If you have **not** previously taken a module at the CLIE for the language you wish to study then you will need to have an online interview with a CLIE language tutor.

Selecting modules

Each degree programme has some compulsory modules that cover core material from each of the subjects in the degree title. These are then supplemented through the choice of appropriate options to make up a total of 120 credits in any particular year.

To take an optional module, you must register for it on Portico. Instructions on how to do this can be found on the Portico website (log on to Portico and select the "Module registration documentation" option from within the "Module Selection" container). In choosing options, you are advised to try and balance the amount of work evenly between the two terms.

There is normally a specified list of options but, subject to approval, you may choose a limited number (normally no more than 30 credits per year) of other modules offered by the College, **provided that there is no timetable clash**. These modules are sometimes referred to as *electives*. The timetable will not be amended so that you may choose an elective. However, third and fourth year students may usually take electives that clash with occasional workshops for statistics modules. In this case, it is the student's responsibility to catch up on any work missed as a result of the clash.

The deadlines for making module selections will be published each year in the "Module Selection Task" on Portico. It is therefore essential that you make sure you research your module choices thoroughly before selecting them. If you want to make a change after you have confirmed your module choices, please consult the Programme Administrator. Changes can be made by the Programme Administrator and you will need to request any changes to your module registrations in good time before the relevant deadline.

Please remember that your registration for any optional or elective module is subject to approval both by the Statistical Science Departmental Tutor and the teaching department for the module. Attempts to register for unsuitable modules will be rejected. If you are in any doubt as to whether you will be allowed to take a particular module, you should discuss it with both the Departmental Tutor and with the department offering the module, **before** attempting to register for it on Portico.

Further information

- Portico login
- Module registration

Module selection and verification deadlines

You will receive an email through the Student Records system, Portico, with details of module registration deadlines. Later on, you will also be asked to check in Portico and confirm that your module registrations are correct. It is important that you check that you are registered for the correct modules so that you are entered for the right assessments.

BSc Data Science

Aims

This programme provides a comprehensive training in the statistical basis of data science, along with a solid grounding in the computing skills and algorithmic reasoning necessary for modern data analysis. As a graduate of the programme, you should be able to proceed directly to a post as a data scientist in industry, commerce or government. The skills you will acquire could also be applied to the founding or management of businesses relating to a broad set of data analytic services. The programme is also designed to provide you with a preparation for postgraduate study in statistics, machine learning and other specialised fields in applied data science.

Objectives

The programme provides opportunities for you to develop and demonstrate knowledge and understanding in the following areas.

- Fundamental ideas of probability theory and applied probability.
- Appropriate methods of statistical inference, in a variety of standard situations and over a range of applied areas.
- Mature algorithmic thinking and its relevance to data analytics and machine learning.
- Proficiency in at least two major programming languages.
- Mathematical methods associated with the above areas.

On successful completion of this programme, you will be able to do the following.

- Explain the concepts and properties of probabilistic modelling and carry out basic calculations associated with this.
- Summarise the main features of a set of data, and explain and use basic methods of statistical estimation and predictive modelling in a variety of standard situations; explain and use basic concepts in the theory of statistical inference.
- Explain, and apply to simple situations, basic ideas in computer science such as programming principles, data structures and optimisation.
- Recognise the structure of the data in a variety of standard situations and define the problem to be solved in statistical terms.

- Select and apply appropriate statistical methods and computational methods, and interpret the results.
- Carry out a critical evaluation of an analytical method, recognising both its strengths and its limitations.

Curriculum

Year 1

Compulsory Modules

| Code | Title | Level | Credits | Term |
|-----------------|--|-------|---------|-------|
| INST0001 | Database Systems A | 5 | 15 | 2 |
| MATH0045 | Calculus and Linear Algebra | 4 | 15 | 1 |
| <u>MATH0046</u> | Calculus in Several Dimensions | 4 | 15 | 2 |
| STAT0002 | Introduction to Probability and Statistics | 4 | 15 | 1 |
| <u>STAT0003</u> | Further Probability and Statistics | 4 | 15 | 2 |
| STAT0004 | Introduction to Practical Statistics | 4 | 15 | 1 & 2 |
| <u>STAT0040</u> | Programming Fundamentals | 4 | 15 | 1 |

Elective Modules

You must select the remaining 15 credits from a wide range of undergraduate modules, e.g. Information Studies, Languages, Management, Mathematics, Science & Technology Studies.

Year 2

Compulsory Modules

| Code | Title | Level | Credits | Term |
|-----------------|------------------------------------|-------|---------|------|
| HPSC0017 | Science and Ethics | 5 | 15 | 2 |
| MATH0047 | Advanced Linear Algebra | 5 | 15 | 1 |
| STAT0005 | Probability and Inference | 5 | 15 | 1 |
| <u>STAT0006</u> | Regression Modelling | 5 | 15 | 1 |
| <u>STAT0023</u> | Computing for Practical Statistics | 5 | 15 | 2 |
| <u>STAT0041</u> | Algorithms and Data Structures | 5 | 15 | 1 |

Optional Modules

You must select at least 15 credits from the following.

| Code | Title | Level | Credits | Term |
|-----------------|--|-------|---------|------|
| <u>MATH0048</u> | Mathematical Analysis | 5 | 15 | 2 |
| <u>STAT0007</u> | Introduction to Applied Probability ¹ | 5 | 15 | 2 |
| STAT0025 | Optimisation Algorithms in Operational Research | 6 | 15 | 1 |
| STAT0045 | Statistical Design and Data Ethics | 5 | 15 | 2 |

Elective Modules

You may select up to 15 credits from a wide range of undergraduate modules, e.g. <u>Information Studies</u>, <u>Languages</u>, <u>Management</u>, <u>Mathematics</u>, <u>Science & Technology Studies</u>. You may not select a Level 4 Mathematics module.

Year 3

When choosing your year 3 modules, please bear in mind that you must have selected a maximum of 150 credits at Level 4 and a minimum of 90 credits at Level 6 over your entire programme in order to be considered for the BSc Data Science qualification.

¹ STAT0007 is a prerequisite for the third year module STAT0044: Computational Statistics.

Compulsory Modules

| Code | Title | Level | Credits | Term |
|-----------------|------------------------------|-------|---------|-------|
| <u>STAT0035</u> | Project | 6 | 30 | 1 & 2 |
| STAT0042 | Statistical Machine Learning | 6 | 15 | 1 |
| <u>STAT0043</u> | Inference at Scale | 6 | 15 | 2 |

Optional Modules

You must select at least 15 credits from the following.

| Code | Title | Level | Credits | Term |
|-----------------|---|-------|---------|------|
| COMP0010 | Software Engineering ² | 5 | 15 | 1 |
| COMP0022 | Database and Information Management Systems | 6 | 15 | 2 |
| MATH0033 | Numerical Methods | 6 | 15 | 1 |
| <u>STAT0007</u> | Introduction to Applied Probability | 5 | 15 | 2 |
| STAT0008 | Statistical Inference | 6 | 15 | 1 |
| <u>STAT0009</u> | Stochastic Systems ³ | 6 | 15 | 1 |
| <u>STAT0010</u> | Forecasting | 6 | 15 | 2 |
| <u>STAT0011</u> | Decision and Risk | 6 | 15 | 2 |
| <u>STAT0013</u> | Stochastic Methods in Finance | 6 | 15 | 1 |
| <u>STAT0014</u> | Medical Statistics 1 | 6 | 15 | 1 |
| <u>STAT0015</u> | Medical Statistics 2 ⁴ | 6 | 15 | 2 |
| STAT0018 | Stochastic Methods in Finance II ⁵ | 6 | 15 | 2 |
| <u>STAT0019</u> | Bayesian Methods in Health Economics ⁶ | 6 | 15 | 2 |
| <u>STAT0020</u> | Quantitative Modelling of Operational Risk and | 6 | 15 | 2 |
| | Insurance Analytics | | . – | |
| <u>STAT0025</u> | Optimization Algorithms in Operational Research | 6 | 15 | 1 |
| <u>STAT0044</u> | Computational Statistics | 6 | 15 | 2 |
| <u>STAT0045</u> | Statistical Design and Data Ethics ⁷ | 5 | 15 | 2 |

Elective Modules

You may select up to 45 credits from a wide range of undergraduate modules, e.g. <u>Geography</u>, <u>Information Studies</u>, <u>Management</u>, <u>Mathematics</u>, <u>Science & Technology Studies</u>. You may not select a Level 4 Mathematics module, or both STAT0013: Stochastic Methods in Finance, and MATH0031: Financial Mathematics.

BSc Statistics

Aims

This programme provides a broad, thorough and intellectually challenging training in the theory and practice of statistical science. As a graduate of the programme, you should be able to proceed directly to a post as a statistician in industry, commerce or the civil service, or by profiting from the general numeracy and reasoning skills acquired during the programme, to take up trainee positions in accountancy, insurance or management. The programme is also designed to provide you with a preparation for postgraduate study in statistics.

² As this module requires a familiarity with Java, some preliminary study over the summer may be necessary.

³ You may only select this module if you took STAT0007: Introduction to Applied Probability in year 2.

⁴ You may only select this module in combination with STAT0014: Medical Statistics 1.

⁵ You may only select this module in combination with STAT0013: Stochastic Methods in Finance.

⁶ You may only select this module in combination with STAT0008: Statistical Inference.

⁷ You may only select this module if you **did not** take STAT0024: Social Statistics in year 2.

Objectives

The programme provides opportunities for you to develop and demonstrate knowledge and understanding in the following areas.

- Fundamental ideas of probability theory and applied probability.
- Appropriate methods of statistical inference, in a variety of standard situations and over a range of applied areas.
- At least one major statistical computer package.
- Mathematical methods associated with the above areas.

On successful completion of this programme, you will be able to do the following.

- Explain the concepts and properties of discrete and continuous random variables, common probability distributions (both univariate and multivariate), and carry out basic calculations associated with these.
- Summarise the main features of a set of data, and explain and use basic methods of statistical estimation and significance testing in a variety of standard situations; explain and use basic concepts in the theory of statistical inference.
- Explain, and apply to simple situations, basic ideas in applied probability such as Markov chains and Markov processes (discrete states only).
- Recognise the structure of the data in a variety of standard situations and define the problem to be solved in statistical terms.
- Select and apply appropriate statistical methods, and interpret the results.
- Carry out a critical evaluation of an analytical method, recognising both its strengths and its limitations.

Curriculum

Year 1

Compulsory Modules

| Code | Title | Level | Credits | Term |
|-----------------|--|-------|---------|------|
| <u>MATH0045</u> | Calculus and Linear Algebra | 4 | 15 | 1 |
| <u>MATH0046</u> | Calculus in Several Dimensions | 4 | 15 | 2 |
| <u>STAT0002</u> | Introduction to Probability and Statistics | 4 | 15 | 1 |
| <u>STAT0003</u> | Further Probability and Statistics | 4 | 15 | 2 |
| <u>STAT0004</u> | Introduction to Practical Statistics | 4 | 15 | 1&2 |

Elective Modules

You may select up to 30 credits from a wide range of <u>undergraduate language modules</u> offered by the UCL Centre for Languages and International Education. Modules available include Arabic, Dutch, French, German, Italian, Japanese, Mandarin, Portuguese, Spanish, English for Academic Purposes and British Sign Language.

You must select the remaining 15-45 credits from a wide range of undergraduate modules, e.g. <u>Economics</u>, <u>Management</u>, <u>Mathematics</u>, <u>Psychology & Language Sciences</u>, <u>Science & Technology Studies</u>.

Below is a list of potential elective modules. Note that the list is partly based on historic selections and does not take account of timetabling - **you will need to check for timetable clashes** before confirming any choices. The timetable cannot be amended to accommodate a particular elective module that you wish to take.

| Code | Title | Level | Credits | Term |
|-----------------|--|-------|---------|--------|
| ECON0011 | Basic Microeconomic Concepts | 4 | 15 | 2 |
| ECON0044 | An Introduction to Applied Economic Analysis | 4 | 15 | 1 |
| HPSC0003 | History of Science: Antiquity to Enlightenment | 4 | 15 | 1 |
| HPSC0006 | Science Policy | 4 | 15 | 2 |
| <u>MATH0048</u> | Mathematical Analysis | 5 | 15 | 2 |
| <u>MSIN0003</u> | Communication and Behaviour in Organisations | 4 | 15 | 2 |
| <u>MSIN0004</u> | Accounting for Business | 4 | 15 | 1 or 2 |
| <u>MSIN0048</u> | Understanding Management | 4 | 15 | 1 or 2 |
| PSYC0038 | Introduction to Social and Business Psychology | 4 | 15 | 2 |
| PSYC0039 | Introduction to Psychology | 4 | 15 | 2 |
| <u>STAT0040</u> | Programming Fundamentals | 4 | 15 | 1 |

If you wish to select an elective module from outside this list, please attend one of the module registration sessions or drop-in hours provided by the Departmental Tutor, who will discuss the appropriateness of the alternative module and assist you to enter the selection on Portico.

Year 2

Compulsory Modules

| Code | Title | Level | Credits | Term |
|--|---|------------------|----------------------|------------------|
| MATH0047 STAT0005 STAT0006 STAT0007 | Advanced Linear Algebra Probability and Inference Regression Modelling Introduction to Applied Probability | 5 5 5 5 | 15 15 15 15 | 1 1 1 2 |
| STAT0023 | Computing for Practical Statistics | 5 | 15 | 2 |

Optional Modules

You must select at least 15 credits from the following.

| Code | Title | Level | Credits | Term |
|-----------------|---|-------|---------|------|
| <u>STAT0025</u> | Optimisation Algorithms in Operational Research | 6 | 15 | 1 |
| <u>STAT0045</u> | Statistical Design and Data Ethics | 5 | 15 | 2 |

Elective Modules

You must select the remaining 15-30 credits from a wide range of undergraduate modules, e.g. <u>Economics</u>, <u>Languages</u>, <u>Management</u>, <u>Mathematics</u>, <u>Science & Technology Studies</u>. You may not select a Level 4 Mathematics module.

Below is a list of potential elective modules. Note that the list is partly based on historic selections and does not take account of timetabling - **you will need to check for timetable clashes** before confirming any choices. The timetable cannot be amended to accommodate a particular elective module that you wish to take.

| Code | Title | Level | Credits | Term |
|-----------------|--|-------|---------|--------|
| ECON0011 | Basic Microeconomic Concepts | 4 | 15 | 2 |
| ECON0044 | An Introduction to Applied Economic Analysis | 4 | 15 | 1 |
| LC##### | Various language modules, e.g. nine modern | 4-6 | 15-30 | 1&2 |
| | foreign languages, English for Academic | | | |
| | Purposes, British Sign Language | | | |
| <u>MATH0048</u> | Mathematical Analysis | 5 | 15 | 2 |
| <u>MSIN0004</u> | Accounting for Business | 4 | 15 | 1 or 2 |
| <u>MSIN0048</u> | Understanding Management | 4 | 15 | 1 or 2 |
| <u>MSIN0059</u> | Managerial Accounting for Decision Making | 5 | 15 | 1 or 2 |
| PSYC0038 | Introduction to Social and Business Psychology | 4 | 15 | 2 |

| Code | Title | Level | Credits | Term |
|-----------------|--------------------------------|-------|---------|------|
| PSYC0039 | Introduction to Psychology | 4 | 15 | 2 |
| <u>STAT0040</u> | Programming Fundamentals | 4 | 15 | 1 |
| <u>STAT0041</u> | Algorithms and Data Structures | 5 | 15 | 1 |

Year 3

When choosing your year 3 modules, please bear in mind that you must have selected a maximum of 150 credits at Level 4 and a minimum of 90 credits at Level 6 over your entire programme in order to be considered for the BSc Statistics qualification.

Compulsory Modules

| Code | Title | Level | Credits | Term |
|-----------------|-----------------------|-------|---------|-------|
| <u>STAT0008</u> | Statistical Inference | 6 | 15 | 1 |
| <u>STAT0035</u> | Project | 6 | 30 | 1 & 2 |

Optional Modules

You must select at least 45 credits from the following.

| Title | Level | Credits | Term |
|--|--|---|--|
| Stochastic Systems | 6 | 15 | 1 |
| Forecasting | 6 | 15 | 2 |
| Decision and Risk | 6 | 15 | 2 |
| Stochastic Methods in Finance | 6 | 15 | 1 |
| Medical Statistics 1 | 6 | 15 | 1 |
| Medical Statistics 2 ⁸ | 6 | 15 | 2 |
| Stochastic Methods in Finance II ⁹ | 6 | 15 | 2 |
| Bayesian Methods in Health Economics | 6 | 15 | 2 |
| Quantitative Modelling of Operational Risk and | 6 | 15 | 2 |
| Insurance Analytics | | | |
| Optimization Algorithms in Operational Research | 6 | 15 | 1 |
| Statistical Machine Learning ¹⁰ | 6 | 15 | 1 |
| Inference at Scale ¹¹ | 6 | 15 | 2 |
| Computational Statistics | 6 | 15 | 2 |
| Statistical Design and Data Ethics ¹² | 5 | 15 | 2 |
| | Title Stochastic Systems Forecasting Decision and Risk Stochastic Methods in Finance Medical Statistics 1 Medical Statistics 2 ⁸ Stochastic Methods in Finance II ⁹ Bayesian Methods in Health Economics Quantitative Modelling of Operational Risk and Insurance Analytics Optimization Algorithms in Operational Research Statistical Machine Learning ¹⁰ Inference at Scale ¹¹ Computational Statistics Statistical Design and Data Ethics ¹² | TitleLevelStochastic Systems6Forecasting6Decision and Risk6Stochastic Methods in Finance6Medical Statistics 16Medical Statistics 2 ⁸ 6Stochastic Methods in Finance II ⁹ 6Bayesian Methods in Health Economics6Quantitative Modelling of Operational Risk and6Insurance Analytics6Optimization Algorithms in Operational Research6Statistical Machine Learning ¹⁰ 6Inference at Scale ¹¹ 6Computational Statistics6Statistical Design and Data Ethics ¹² 5 | TitleLevelCreditsStochastic Systems615Forecasting615Decision and Risk615Stochastic Methods in Finance615Medical Statistics 1615Medical Statistics 2 ⁸ 615Stochastic Methods in Finance II ⁹ 615Bayesian Methods in Health Economics615Quantitative Modelling of Operational Risk and615Insurance Analytics |

Elective Modules

You may select up to 30 credits from a wide range of undergraduate modules, e.g. <u>Economics</u>, <u>Languages</u>, <u>Management</u>, <u>Mathematics</u>, <u>Science & Technology Studies</u>. You may not select a Level 4 Mathematics module, or both STAT0013: Stochastic Methods in Finance, and MATH0031: Financial Mathematics.

BSc Statistics, Economics and Finance (SEF)

Aims

This programme provides a thorough and intellectually challenging training in quantitative methods together with a basic knowledge of Economics and Finance. These different components reinforce one another to provide a coherent and wide-ranging foundation in modern quantitative techniques. As a graduate of the programme, you should be able to

⁸ You may only select this module in combination with STAT0014: Medical Statistics 1.

⁹ You may only select this module in combination with STAT0013: Stochastic Methods in Finance.

 ¹⁰ You may only select this module is you took STAT0040: Programming Fundamentals in years 1 or 2.
 ¹¹ You may only select this module in combination with STAT0042: Statistical Machine Learning and if you took STAT0041: Algorithms and Data Structures in year 2.

¹² You may only select this module if you **did not** take STAT0024: Social Statistics in year 2.

profit from the general numeracy and reasoning skills acquired in order to take up trainee positions in accountancy, finance, insurance or management, or to proceed to a position as a statistician in industry, commerce or public organisations. The programme is also designed to provide you with a preparation for postgraduate study in statistics, economics or finance. Via appropriate choice of options, the programme may also provide you with a foundation for a career, or for further study, in operational research.

Objectives

The programme provides opportunities for you to develop and demonstrate knowledge and understanding in the following areas.

- Fundamental ideas of probability theory and applied probability.
- Appropriate methods of statistical inference, in a variety of standard situations and over a range of applied areas.
- At least two major statistical computer packages; simple concepts of programming for statistical analysis.
- Fundamentals of microeconomics including supply and demand, consumer choice, firm behaviour, product markets, labour markets and international trade, and their relation to applied topics.
- Fundamentals of macroeconomics including national accounts, relations between private sector and government, the problems of inflation, unemployment, balance-of-payments and growth, aggregate demand and supply, and their relation to applied topics.
- Theories and empirical evidence concerning financial management, risk and the operation of financial markets.
- Mathematical methods associated with the above areas.

On successful completion of this programme you will be able to do the following.

- Explain the concepts and properties of discrete and continuous random variables, common probability distributions (both univariate and multivariate), and carry out basic calculations associated with these.
- Summarise the main features of a set of data, and explain and use basic methods of statistical estimation and significance testing in a variety of standard situations; explain and use basic concepts in the theory of statistical inference.
- Explain the ideas of Markov chains, Markov processes (discrete states only) and renewal processes, and use them in simple applications, including queues and reliability.
- Recognise the structure of the data in a variety of standard situations and define the problem to be solved in statistical terms.
- Select and apply appropriate statistical methods, and interpret the results.
- Carry out a critical evaluation of an analytical method, recognising both its strengths and its limitations.
- Formulate economic arguments and understand the role of argument and evidence in the policy-making process.
- Use the basic mathematical and probabilistic tools of modern finance, and apply the relevant techniques for the pricing of derivatives;

Curriculum

Year 1

Compulsory Modules

| Code | Title | Level | Credits | Term |
|---|--|----------------------------|--|---|
| MATH0002 MATH0045 MATH0046 MSIN0004 STAT0002 STAT0003 STAT0004 | Economics I (Combined Studies) Calculus and Linear Algebra Calculus in Several Dimensions Accounting for Business Introduction to Probability and Statistics Further Probability and Statistics Introduction to Practical Statistics | 4 4 4 4 4 4 | 30 15 15 15 15 15 15 | 1 & 2 1 2 2 1 2 1 & 2 |
| Year 2 | | | | |
| Compulsory Me | odules | | | |
| Code | Title | Level | Credits | Term |
| <u>MATH0047</u> <u>STAT0005</u> <u>STAT0006</u> <u>STAT0007</u> <u>STAT0023</u> | Advanced Linear Algebra Probability and Inference Regression Modelling Introduction to Applied Probability Computing for Practical Statistics | 5 5 5 5 5 | 15 15 15 15 15 | 1 1 2 2 |
| Optional Modul | les | | | |
| You must selec | t at least 15 credits from the following. | | | |
| Code | Title | Leve | I Credite | s Term |
| ECON0004 STAT0001 | Applied Economics Economics 2 (Combined Studies) ¹³ | 4 5 | 15 30 | 2 1 & 2 |
| You may select | t up to 30 credits from the following. | | | |
| Code | Title | Leve | I Credite | s Term |
| MSIN0059 STAT0025 STAT0045 | Managerial Accounting for Decision Making ¹⁴ Optimisation Algorithms in Operational Research Statistical Design and Data Ethics | 5 6 5 | 15 15 15 | 1 1 2 |

Elective Modules

You may select up to 15 credits from a wide range of undergraduate modules, e.g. <u>Economics</u>, <u>Languages</u>, <u>Management</u>, <u>Mathematics</u>, <u>Science & Technology Studies</u>. You may not select a Level 4 Mathematics module.

Year 3

When choosing your year 3 modules, please bear in mind that you must have selected a maximum of 150 credits at level 4 and a minimum of 90 credits at level 6 over your entire programme in order to be considered for the BSc Statistics, Economics and Finance qualification.

 ¹³ STAT0001 is a prerequisite for the third year optional modules ECON0001: Economics of Financial Markets, ECON0019: Quantitative Economics and Econometrics, and ECON0113: Advanced Economics of Finance.
 ¹⁴ MSIN0059 is a prerequisite for the third year optional modules MSIN0039: Corporate Financial Strategy, and MSIN0028: Mergers and Valuation.

Compulsory Modules

| Code | Title | Level | Credits | Term |
|-----------------|-------------------------------|-------|---------|------|
| <u>STAT0008</u> | Statistical Inference | 6 | 15 | 1 |
| <u>STAT0013</u> | Stochastic Methods in Finance | 6 | 15 | 1 |

Optional Modules

You must select at least 30 credits and at least two modules from the following.

| Code | Title | Level | Credits | Term |
|--|---|--|--|--|
| STAT0009 STAT0010 STAT0011 STAT0014 STAT0015 STAT0019 STAT0025 STAT0035 STAT0036 STAT0036 STAT0042 STAT0044 STAT0045 | Stochastic Systems Forecasting Decision and Risk Medical Statistics 1 Medical Statistics 2 ¹⁵ Bayesian Methods in Health Economics Optimization Algorithms in Operational Research Project ¹⁶ Project ¹⁶ Statistical Machine Learning ¹⁷ Computational Statistics Statistical Design and Data Ethics ¹⁸ | 6 6 6 6 6 6 6 6 6 5 | 15 15 15 15 15 15 30 15 15 15 | 1 2 1 2 1 & 2 1 & 2 1 & 2 1 2 2 |
| You must select | at least 15 credits from the following. | | | |
| Code | Title | Level | Credits | Term |
| ECON0001 ECON0048 ECON0113 STAT0018 STAT0020 | Economics of Financial Markets ¹⁹ Economics of Finance ²⁰ Advanced Economics of Finance ^{20,21} Stochastic Methods in Finance II Quantitative Modelling of Operational Risk and Insurance Analytics | 6 5 6 6 | 15 15 15 15 15 | 2 2 1 2 2 |
| You may select | up to 45 credits from the following. | | | |
| Code | Title | Level | Credits | Term |
| ECON0019 ECON0027 ECON0029 MSIN0028 MSIN0039 MSIN0059 | Quantitative Economics and Econometrics ¹⁹ Game Theory Economics of Information ²² Mergers and Valuation ²³ Corporate Financial Strategy ²³ Managerial Accounting for Decision Making | 5 6 6 6 5 | 30 15 15 15 15 15 | 1 & 2 1 2 1 or 2 1 or 2 |

Elective Modules

You may select up to 45 credits from a wide range of undergraduate modules, e.g. <u>Economics, Languages, Management, Mathematics, Science & Technology Studies</u>. You may not select a Level 4 Mathematics module, or MATH0031: Financial Mathematics.

¹⁶ You may not select both STAT0035: Project and STAT0036: Project.

¹⁷ You may only select this module is you took STAT0040: Programming Fundamentals in years 1 or 2.

¹⁵ You may only select this module in combination with STAT0014: Medical Statistics 1.

¹⁸ You may only select this module if you **did not** take STAT0024: Social Statistics in year 2.

¹⁹ You may only select this module if you took STAT0001: Economics 2 (Combined Studies) in year 2.

²⁰ You may not select both ECON0048: Economics of Finance and ECON0113: Advanced Economics of Finance.

²¹ You may only select ECON0113 if you took STAT0001: Economics 2 (Combined Studies) in year 2. Even then, it is expected to be challenging for SEF students and ECON0048 may be a more accessible alternative.

²² You may only select this module in combination with ECON0019: Quantitative Economics and Econometrics.

²³ You may only select this module if you took MSIN0059: Managerial Accounting for Decision Making in year 2.

BSc Statistics, Economics and a Language (SEL)

Aims

This programme provides a thorough an intellectually challenging training in quantitative methods, together with a basic knowledge of Economics and a reasonable ability to communicate in a second language in addition to English. As a graduate of the programme, you should be able to profit from the general numeracy, reasoning and linguistic skills acquired in order to take up a trainee position in accountancy, finance, insurance or management, or to proceed to a position as a statistician in industry, commerce or public organisations. The study of a foreign language recognises that increasingly these careers have an international dimension, and upon successful completion of this programme you should be able to converse reasonably fluently (according to the level) with native speakers and discuss personal, social, current and professional issues using appropriate structures. The programme is also designed to provide you with a preparation for postgraduate study in statistics or economics. Via appropriate choice of options, the programme may also provide you with a foundation for a career, or for further study, in operational research.

Objectives

The programme provides opportunities for you to develop and demonstrate knowledge and understanding in the following areas.

- Fundamental ideas of probability theory and applied probability.
- Appropriate methods of statistical inference, in a variety of standard situations and over a range of applied areas.
- At least one major statistical computer package.
- Fundamentals of microeconomics including supply and demand, consumer choice, firm behaviour, product markets, labour markets and international trade, and their relation to applied topics.
- Fundamentals of macroeconomics including national accounts, relations between private sector and government, the problems of inflation, unemployment, balance-of-payments and growth, aggregate demand and supply, and their relation to applied topics.
- Mathematical methods associated with the above areas.
- The structure/culture of the target language, and at higher levels, also of the business, social, historical and political contexts in which the language is currently used.

On successful completion of the programme you will be able to do the following.

- Explain the concepts and properties of discrete and continuous random variables, common probability distributions (both univariate and multivariate), and carry out basic calculations associated with these.
- Summarise the main features of a set of data, and explain and use basic methods of statistical estimation and significance testing in a variety of standard situations; explain and use basic concepts in the theory of statistical inference.
- Explain the ideas of Markov chains, Markov processes (discrete states only) and renewal processes, and use them in simple applications, including queues and reliability.
- Recognise the structure of the data in a variety of standard situations and define the problem to be solved in statistical terms.
- Select and apply appropriate statistical methods, and interpret the results.
- Carry out a critical evaluation of an analytical method, recognising both its strengths and its limitations.

- Formulate economic arguments and understand the role of argument and evidence in the policy-making process.
- Explain and use language concepts (as appropriate for the level).
- Recognise the structure of the language in a variety of situations. •
- Apply the appropriate register for the situation.
- Critically evaluate different text types.

Curriculum

Year 1

Compulsory Modules

| Code | Title | Level | Credits | Term |
|-----------------|--|-------|---------|------|
| <u>MATH0002</u> | Economics I (Combined Studies) | 4 | 30 | 1&2 |
| MATH0045 | Calculus and Linear Algebra | 4 | 15 | 1 |
| MATH0046 | Calculus in Several Dimensions | 4 | 15 | 2 |
| STAT0002 | Introduction to Probability and Statistics | 4 | 15 | 1 |
| STAT0003 | Further Probability and Statistics | 4 | 15 | 2 |
| <u>STAT0004</u> | Introduction to Practical Statistics | 4 | 15 | 1&2 |
| | | | | |

Optional Modules

You must select 15 credits from a wide range of undergraduate modern foreign language modules. You can study at most two languages and select at most one module at language level 1 throughout your degree programme.

Year 2

Compulsory Modules

| Code | Title | Level | Credits | Term |
|----------|-------------------------------------|-------|---------|------|
| MATH0047 | Advanced Linear Algebra | 5 | 15 | 1 |
| STAT0005 | Probability and Inference | 5 | 15 | 1 |
| STAT0006 | Regression Modelling | 5 | 15 | 1 |
| STAT0007 | Introduction to Applied Probability | 5 | 15 | 2 |

Optional Modules

You must select at least 15 credits from a wide range of undergraduate modern foreign language modules. You can study at most two languages and select at most one module at language level 1 throughout your degree programme.

You must select at least 15 credits from the following.

| Code | Title | Level | Credits | Term |
|---|---|-------------|----------------|-------------|
| ECON0004 STAT0001 | Applied Economics Economics 2 (Combined Studies) ²⁴ | 4 5 | 15 30 | 2 1 & 2 |
| You may selec | t up to 30 credits from the following. | | | |
| Code | Title | Level | Credits | Term |
| <u>STAT0023</u> <u>STAT0025</u> <u>STAT0045</u> | Computing for Practical Statistics ²⁵ Optimisation Algorithms in Operational Research Statistical Design and Data Ethics | 5 6 5 | 15 15 15 | 2 1 2 |

²⁴ STAT0001 is a prerequisite for the third year optional modules ECON0019: Quantitative Economics and Econometrics, and ECON0055: Economics of Science. ²⁵ STAT0023 is a prerequisite for the third year optional module STAT0044: Computational Statistics.

Elective Modules

You may select up to 15 credits from a wide range of undergraduate modules, e.g. <u>Economics</u>, <u>Management</u>, <u>Mathematics</u>, <u>Psychology & Language Sciences</u>, <u>Science &</u> <u>Technology Studies</u>. You may not select a Level 4 Mathematics module.

Year 3

When choosing your year 3 modules, please bear in mind that you must have selected a maximum of 150 credits at level 4 and a minimum of 90 credits at level 6 over your entire programme in order to be considered for the BSc Statistics, Economics and a Language qualification.

Compulsory Modules

| Code | Title | Level | Credits | Term |
|-----------------|-----------------------|-------|---------|------|
| <u>STAT0008</u> | Statistical Inference | 6 | 15 | 1 |

Optional Modules

You must select at least 15 credits from a wide range of undergraduate <u>modern foreign</u> <u>language modules</u>. You can study at most two languages and select at most one module at language level 1 throughout your degree programme.

You must select at least 45 credits and at least three modules from the following.

| Code | Title | Level | Credits | Term |
|-----------------|---|-------|---------|------|
| STAT0009 | Stochastic Systems | 6 | 15 | 1 |
| STAT0010 | Forecasting | 6 | 15 | 2 |
| STAT0011 | Decision and Risk | 6 | 15 | 2 |
| STAT0013 | Stochastic Methods in Finance | 6 | 15 | 1 |
| STAT0014 | Medical Statistics 1 | 6 | 15 | 1 |
| STAT0015 | Medical Statistics 2 ²⁶ | 6 | 15 | 2 |
| STAT0018 | Stochastic Methods in Finance II ²⁷ | 6 | 15 | 2 |
| STAT0019 | Bayesian Methods in Health Economics | 6 | 15 | 2 |
| STAT0020 | Quantitative Modelling of Operational Risk and | 6 | 15 | 2 |
| | Insurance Analytics | | | |
| STAT0023 | Computing for Practical Statistics | 5 | 15 | 2 |
| <u>STAT0025</u> | Optimization Algorithms in Operational Research | 6 | 15 | 1 |
| <u>STAT0035</u> | Project ²⁸ | 6 | 30 | 1&2 |
| <u>STAT0036</u> | Project ²⁸ | 6 | 15 | 1&2 |
| STAT0042 | Statistical Machine Learning ²⁹ | 6 | 15 | 1 |
| STAT0044 | Computational Statistics ³⁰ | 6 | 15 | 2 |
| STAT0045 | Statistical Design and Data Ethics ³¹ | 5 | 15 | 2 |
| You must sele | ect at least 15 credits from the following. | | | |
| Code | Title | Level | Credits | Term |
| ECON0019 | Quantitative Economics and Econometrics ³² | 5 | 30 | 1&2 |
| ECON0027 | Game Theory | 6 | 15 | 1 |
| ECON0048 | Economics of Finance | 5 | 15 | 2 |
| ECON0052 | Environmental Economics | 6 | 15 | 2 |

²⁶ You may only select this module in combination with STAT0014: Medical Statistics 1.

²⁷ You may only select this module in combination with STAT0013: Stochastic Methods in Finance.

²⁸ You may not select both STAT0035: Project and STAT0036: Project.

²⁹ You may only select this module is you took STAT0040: Programming Fundamentals in year 2.

³⁰ You may only select this module if you took STAT0023: Computing for Practical Statistics in year 2.

³¹ You may only select this module if you **did not** take STAT0024: Social Statistics in year 2.

³² You may only select this module if you took STAT0001: Economics 2 (Combined Studies) in year 2.

| Code | Title | Level | Credits | Term |
|-----------------|--|-------|---------|--------|
| ECON0055 | Economics of Science ³² | 6 | 15 | 2 |
| ECON0114 | Computational Methods for Economists | 6 | 15 | 1 |
| <u>MSIN0039</u> | Corporate Financial Strategy ³³ | 6 | 15 | 1 or 2 |

Elective Modules

You may select up to 30 credits from a wide range of undergraduate modules, e.g. <u>Economics</u>, <u>Management</u>, <u>Mathematics</u>, <u>Psychology & Language Sciences</u>, <u>Science &</u> <u>Technology Studies</u>. You may not select a Level 4 Mathematics module, or both STAT0013 and MATH0031 Financial Mathematics.

BSc Statistics and Management for Business (SAMB)

Aims

This programme provides a thorough and intellectually challenging training in statistics together with modules in the borad area of business studies. It aims to provide a combination of management and quantitative skills useful for a career in business, management, commerce or industry. As a graduate of this programme, you should be able to proceed directly to a post as a statistician in industry, commerce or public organisations, or by profiting from the general numeracy and reasoning skills acquired during the programme, to take up trainee positions in accountancy, insurance or management. The programme is also designed to provide you with a preparation for postgraduate study in statistics or operational research.

Objectives

The programme provides opportunities for you to develop and demonstrate knowledge and understanding in the following areas.

- Fundamental ideas of probability theory and applied probability.
- Appropriate methods of statistical inference, in a variety of standard situations and over a range of applied areas.
- At least one major statistical computer package.
- Basic deterministic and stochastic methods in operational research.
- Mathematical methods associated with the above areas.
- Theoretical management concepts and their practical application.

On successful completion of this programme you will be able to do the following.

- Explain the concepts and properties of discrete and continuous random variables, common probability distributions (both univariate and multivariate), and carry out basic calculations associated with these.
- Summarise the main features of a set of data, and explain and use basic methods of statistical estimation and significance testing in a variety of standard situations; explain and use basic concepts in the theory of statistical inference.
- Explain the ideas of Markov chains, Markov processes (discrete states only) and renewal processes, and use them in simple applications, including queues and reliability.
- Recognise the structure of the data in a variety of standard situations and define the problem to be solved in statistical terms.

³³ You may only select this module if you took MSIN0059: Managerial Accounting for Decision Making in year 2.

- Select and apply appropriate statistical methods, and interpret the results.
- Carry out a critical evaluation of an analytical method, recognising both its strengths and its limitations.
- Identify and discuss the impact of cultural, political, social, economic and technological issues on organisations.
- Present arguments and views which demonstrate understanding of the realities of organisation life.

Curriculum

Year 1

Compulsory Modules

| Code | Title | Level | Credits | Term |
|-----------------|--|-------|---------|------|
| MATH0045 | Calculus and Linear Algebra | 4 | 15 | 1 |
| MATH0046 | Calculus in Several Dimensions | 4 | 15 | 2 |
| MSIN0003 | Communication and Behaviour in Organisations | 4 | 15 | 2 |
| MSIN0006 | Business Intelligence | 4 | 15 | 1 |
| MSIN0048 | Understanding Management | 4 | 15 | 1 |
| STAT0002 | Introduction to Probability and Statistics | 4 | 15 | 1 |
| <u>STAT0003</u> | Further Probability and Statistics | 4 | 15 | 2 |
| <u>STAT0004</u> | Introduction to Practical Statistics | 4 | 15 | 1&2 |

Year 2

Compulsory Modules

| Title | Level | Credits | Term |
|---------------------------------------|---|---|--|
| Advanced Linear Algebra | 5 | 15 | 1 |
| Accounting for Business | 4 | 15 | 1 |
| Business in a Competitive Environment | 5 | 15 | 2 |
| Probability & Inference | 5 | 15 | 1 |
| Regression Modelling | 5 | 15 | 1 |
| | Title Advanced Linear Algebra Accounting for Business Business in a Competitive Environment Probability & Inference Regression Modelling | TitleLevelAdvanced Linear Algebra5Accounting for Business4Business in a Competitive Environment5Probability & Inference5Regression Modelling5 | TitleLevelCreditsAdvanced Linear Algebra515Accounting for Business415Business in a Competitive Environment515Probability & Inference515Regression Modelling515 |

Optional Modules

You must select at least 15 credits from the following.

| Code | Title | Level | Credits | Term |
|--|---|-----------------------|----------------------------|-----------------------|
| MSIN0051 MSIN0052 MSIN0053 MSIN0059 MSIN0144 | Digital Strategy and Transformation Law for Managers Mastering Entrepreneurship Managerial Accounting for Decision Making ³⁴ Entrepreneurship: Theory and Practice | 5 5 6 5 6 | 15 15 15 15 15 | 2 2 1 2 2 |
| You may selec | t up to 30 credits from the following. | | | |
| Code | Title | Level | Credits | Term |
| <u>STAT0007</u> <u>STAT0023</u> <u>STAT0045</u> | Introduction to Applied Probability ³⁵ Computing for Practical Statistics ³⁶ Statistical Design and Data Ethics | 5 5 5 | 15 15 15 | 2 2 2 |

³⁴ MSIN0059: Managerial Accounting for Decision Making is a prerequisite for the third year optional module MSIN0039: Corporate Financial Strategy.

³⁵ STAT0007 is a prerequisite for the third year optional module STAT0044: Computational Statistics.

³⁶ STAT0023 is a prerequisite for the third year optional module STAT0044: Computational Statistics.

Elective Modules

You may select up to 15 credits from a wide range of undergraduate modules, e.g. <u>Economics</u>, <u>Languages</u>, <u>Mathematics</u>, <u>Psychology & Language Sciences</u>, <u>Science &</u> <u>Technology Studies</u>. You may not select a Level 4 Mathematics module.

Year 3

When choosing your year 3 modules, please bear in mind that you must have selected a maximum of 150 credits at Level 4 and a minimum of 90 credits at Level 6 over your entire programme in order to be considered for the BSc Statistics and Management for Business qualification.

Compulsory Modules

| Code | Title | Level | Credits | Term |
|-----------------|------------------------------|-------|---------|--------|
| <u>MSIN0147</u> | Strategic Project Management | 6 | 15 | 1 or 2 |

Optional Modules

You must select at least 30 credits and at least two modules from the following, including at least 15 credits at Level 6. You must select at least 45 credits of Statistical Science options in total across years 2 and 3.

| Code | Title | Level | Credits | Term |
|-----------------|--|-------|---------|------|
| <u>STAT0007</u> | Introduction to Applied Probability | 5 | 15 | 2 |
| STAT0008 | Statistical Inference | 6 | 15 | 1 |
| <u>STAT0009</u> | Stochastic Systems ³⁷ | 6 | 15 | 1 |
| <u>STAT0010</u> | Forecasting | 6 | 15 | 2 |
| <u>STAT0011</u> | Decision and Risk | 6 | 15 | 2 |
| <u>STAT0013</u> | Stochastic Methods in Finance | 6 | 15 | 1 |
| STAT0014 | Medical Statistics 1 | 6 | 15 | 1 |
| STAT0015 | Medical Statistics 2 ³⁸ | 6 | 15 | 2 |
| <u>STAT0018</u> | Stochastic Methods in Finance II ³⁹ | 6 | 15 | 2 |
| STAT0019 | Bayesian Methods in Health Economics ⁴⁰ | 6 | 15 | 2 |
| <u>STAT0020</u> | Quantitative Modelling of Operational Risk and Insurance Analytics | 6 | 15 | 2 |
| STAT0023 | Computing for Practical Statistics | 5 | 15 | 2 |
| <u>STAT0025</u> | Optimization Algorithms in Operational Research | 6 | 15 | 1 |
| <u>STAT0035</u> | Project ⁴¹ | 6 | 30 | 1&2 |
| <u>STAT0036</u> | Project ⁴¹ | 6 | 15 | 1&2 |
| <u>STAT0042</u> | Statistical Machine Learning ⁴² | 6 | 15 | 1 |
| <u>STAT0044</u> | Computational Statistics ⁴³ | 6 | 15 | 2 |
| <u>STAT0045</u> | Statistical Design and Data Ethics44 | 5 | 15 | 2 |

You must select at least 30 credits from the following, and at least 60 credits of Management options in total across years 2 and 3:

³⁷ You may only select this module if you took STAT0007: Introduction to Applied Probability in year 2.

³⁸ You may only select this module in combination with STAT0014: Medical Statistics 1.

³⁹ You may only select this module in combination with STAT0013: Stochastic Methods in Finance.

⁴⁰ You may only select this module in combination with STAT0008: Statistical Inference.

⁴¹ You may only select one project module in year 3, either STAT0035: Project, STAT0036: Project, or MSIN0153: Extended Project.

⁴² You may only select this module is you took STAT0040: Programming Fundamentals in year 2.

⁴³ You may only select this module if you took STAT0023: Computing for Practical Statistics in year 2.

⁴⁴ You may only select this module if you **did not** take STAT0024: Social Statistics in year 2.

| Code | Title | Level | Credits | Term |
|-----------------|--|-------|---------|--------|
| ECON0027 | Game Theory | 6 | 15 | 1 |
| MSIN0029 | Digital Conversations and Marketing | 6 | 15 | 2 |
| MSIN0039 | Corporate Financial Strategy ⁴⁵ | 6 | 15 | 1 or 2 |
| MSIN0051 | Digital Strategy and Transformation | 5 | 15 | 2 |
| MSIN0052 | Law for Managers | 5 | 15 | 2 |
| MSIN0053 | Mastering Entrepreneurship | 6 | 15 | 1 |
| MSIN0055 | International Strategy | 6 | 15 | 2 |
| MSIN0057 | Strategic Human Resource Management | 5 | 15 | 2 |
| <u>MSIN0059</u> | Managerial Accounting for Decision Making | 5 | 15 | 1 or 2 |
| MSIN0060 | Global Entrepreneurship | 6 | 15 | 1 |
| MSIN0061 | Global Marketing Strategy | 5 | 15 | 2 |
| MSIN0146 | Financial Management | 6 | 15 | 1 |
| MSIN0153 | Extended Project ⁴¹ | 6 | 30 | 1&2 |
| MSIN0212 | The Ethics of Artificial Intelligence | 6 | 15 | 2 |

Subject to the same credit requirements, you may substitute Management modules listed above with <u>other modules offered by the School of Management</u>.

Elective Modules

You may select up to 45 credits from a wide range of undergraduate modules, e.g. <u>Economics</u>, <u>Languages</u>, <u>Mathematics</u>, <u>Psychology & Language Sciences</u>, <u>Science &</u> <u>Technology Studies</u>. You may not select a Level 4 Mathematics module, or both STAT0013: Stochastic Methods in Finance 1 and MATH0031: Financial Mathematics.

BSc (Econ) Economics and Statistics (Econ/Stats)

Aims

This programme combines an in-depth study of economics and econometrics with a solid grounding in mathematical and statistical methods. It aims to provide students of high mathematical ability with skills useful for a career in finance, business or industry. As a graduate of the programme, you should be able to proceed directly to a post as an economist or statistician, or by profiting from the general numeracy and transferable skills acquired during the programme, to take up a trainee position in accountancy, insurance or management. The programme is also designed to provide you with a preparation for postgraduate study in economics, statistics and related fields.

Objectives

The programme provides opportunities for you to develop and demonstrate knowledge and understanding in the following areas.

- Fundamental ideas of probability theory and applied probability.
- Appropriate methods of statistical inference, in a variety of standard situations and over a range of applied areas.
- At least one major statistical computer package.
- Mathematical methods associated with the above areas.
- Core elements of macroeconomics, microeconomics and quantitative empirical economics.
- One or more specialised areas of economics, for example, financial economics, industrial relations, international trade and economic applications of game theory.

⁴⁵ You may only select this module if you took MSIN0059: Managerial Accounting for Decision Making in year 2.

On successful completion of this programme you will be able to do the following.

- Explain the concepts and properties of discrete and continuous random variables and common probability distributions (both univariate and multivariate), and carry out basic calculations associated with these.
- Summarise the main features of a set of data, and explain and use basic methods of statistical estimation and significance testing in a variety of standard situations; explain and use basic concepts in the theory of statistical inference.
- Explain, and apply to simple situations, basic ideas in applied probability such as Markov chains and Markov processes (discrete states only).
- Recognise the structure of the data in a variety of standard situations and define the problem to be solved in statistical terms.
- Select and apply appropriate statistical methods, and interpret the results.
- Carry out a critical evaluation of an analytical method, recognising both its strengths and its limitations.
- Understand the central ideas, concepts and methods of modern economics and apply these core concepts to one or more specialised areas of economics.
- Approach economic and more general quantitative problems in a methodical and structured manner, bringing to bear skills of conceptualisation, problem solving, analysis and communication.
- Explain and evaluate the role of economic evidence in policy-making processes and individual and corporate decision-making.

Curriculum

Year 1

Compulsory Modules

| Title | Level | Credits | Term |
|--|--|---|--|
| Economics I (Combined Studies) | 4 | 30 | 1&2 |
| Calculus and Linear Algebra | 4 | 15 | 1 |
| Calculus in Several Dimensions | 4 | 15 | 2 |
| Introduction to Probability and Statistics | 4 | 15 | 1 |
| Further Probability and Statistics | 4 | 15 | 2 |
| Introduction to Practical Statistics | 4 | 15 | 1&2 |
| | Title Economics I (Combined Studies) Calculus and Linear Algebra Calculus in Several Dimensions Introduction to Probability and Statistics Further Probability and Statistics Introduction to Practical Statistics | TitleLevelEconomics I (Combined Studies)4Calculus and Linear Algebra4Calculus in Several Dimensions4Introduction to Probability and Statistics4Further Probability and Statistics4Introduction to Practical Statistics4 | TitleLevelCreditsEconomics I (Combined Studies)430Calculus and Linear Algebra415Calculus in Several Dimensions415Introduction to Probability and Statistics415Further Probability and Statistics415Introduction to Practical Statistics415 |

Optional Modules

You must select exactly 15 credits from the following.

| Code | Title | Level | Credits | Term |
|----------|-------------------|-------|---------|------|
| ECON0004 | Applied Economics | 4 | 15 | 2 |
| ECON0007 | The World Economy | 4 | 15 | 2 |

Students who have not taken Economics A-level, or equivalent, should consider taking ECON0007: The World Economy, as this provides an introduction to basic economic concepts and methods. Students who have taken Economics A-level typically choose ECON0004: Applied Economics. ECON0004 is among the named prerequisites for the compulsory second year module ECON0019: Quantitative Economics and Econometrics, although students will take during their first year modules judged to be equivalent. If students are unsure about which option to take they should ask about this at the Economics induction meeting.

Year 2

Compulsory Modules

| Code | Title | Level | Credits | Term |
|-----------------|---|-------|---------|------|
| ECON0019 | Quantitative Economics and Econometrics | 5 | 30 | 1&2 |
| <u>MATH0047</u> | Advanced Linear Algebra | 5 | 15 | 1 |
| <u>STAT0001</u> | Economics 2 (Combined Studies) | 5 | 30 | 1&2 |
| STAT0005 | Probability & Inference | 5 | 15 | 1 |
| <u>STAT0006</u> | Regression Modelling | 5 | 15 | 1 |

Optional Modules

You must select exactly 15 credits from the following.

| Code | Title | Level | Credits | Term |
|-----------------|---|-------|---------|------|
| <u>STAT0007</u> | Introduction to Applied Probability ⁴⁶ | 5 | 15 | 2 |
| STAT0045 | Statistical Design and Data Ethics | 5 | 15 | 2 |

Year 3

When choosing your year 3 modules, please bear in mind that you must have selected a maximum of 150 credits at Level 4 and a minimum of 90 credits at Level 6 over your entire programme in order to be considered for the BSc(Econ) Economics and Statistics qualification.

Optional Modules

You must select at least 30 credits and at least two modules from the following, including at least 15 credits at Level 6.

| Code | Title | Level | Credits | Term |
|-----------------|---|-------|---------|------|
| <u>STAT0007</u> | Introduction to Applied Probability | 5 | 15 | 2 |
| STAT0008 | Statistical Inference | 6 | 15 | 1 |
| STAT0009 | Stochastic Systems ⁴⁶ | 6 | 15 | 1 |
| STAT0010 | Forecasting | 6 | 15 | 2 |
| <u>STAT0011</u> | Decision and Risk | 6 | 15 | 2 |
| STAT0013 | Stochastic Methods in Finance | 6 | 15 | 1 |
| STAT0014 | Medical Statistics 1 | 6 | 15 | 1 |
| STAT0015 | Medical Statistics 247 | 6 | 15 | 2 |
| <u>STAT0018</u> | Stochastic Methods in Finance II ⁴⁸ | 6 | 15 | 2 |
| <u>STAT0019</u> | Bayesian Methods in Health Economics ⁴⁹ | 6 | 15 | 2 |
| <u>STAT0020</u> | Quantitative Modelling of Operational Risk and Insurance Analytics | 6 | 15 | 2 |
| STAT0023 | Computing for Practical Statistics | 5 | 15 | 2 |
| STAT0025 | Optimization Algorithms in Operational Research | 6 | 15 | 1 |
| STAT0035 | Project ⁵⁰ | 6 | 30 | 1&2 |
| STAT0036 | Project ⁵⁰ | 6 | 15 | 1&2 |
| STAT0045 | Statistical Design and Data Ethics ⁵¹ | 5 | 15 | 2 |

You must select at least 45 credits from the following, including at least 15 credits from the first list.

⁴⁶ You may only select this module if you took STAT0007: Introduction to Applied Probability in year 2.

⁴⁷ You may only select this module in combination with STAT0014: Medical Statistics 1.

⁴⁸ You may only select this module in combination with STAT0013: Stochastic Methods in Finance.

⁴⁹ You may only select this module in combination with STAT0008: Statistical Inference.

⁵⁰ You may not select both STAT0035: Project and STAT0036: Project..

⁵¹ You may only select this module if you **did not** take STAT0024: Social Statistics in year 2.

| Code | Title | Level | Credits | Term |
|----------|--|-------|---------|------|
| ECON0001 | Economics of Financial Markets | 6 | 15 | 2 |
| ECON0021 | Microeconometrics | 6 | 15 | 1 |
| ECON0022 | Econometrics for Macroeconomics and Finance | 6 | 15 | 1 |
| ECON0023 | International Trade | 6 | 15 | 1 |
| ECON0027 | Game Theory | 6 | 15 | 1 |
| ECON0029 | Economics of information | 6 | 15 | 1 |
| ECON0030 | Issues in Economic Development | 6 | 15 | 2 |
| ECON0113 | Advanced Economics of Finance ^{52,53} | 6 | 15 | 1 |
| Code | Title | Level | Credits | Term |
| ECON0047 | Economics of Labour | 6 | 15 | 2 |
| ECON0048 | Economics of Finance ⁵³ | 5 | 15 | 2 |
| ECON0052 | Environmental Economics | 6 | 15 | 2 |
| ECON0053 | Economics of Tax Policy | 6 | 15 | 2 |
| ECON0055 | Econommics of Science | 6 | 15 | 2 |
| ECON0114 | Computational Methods for Economists | 6 | 15 | 1 |

Subject to the same credit requirements, you may substitute Economics modules listed above with <u>other modules offered by the Department of Economics</u>. Your selection must include at least one module that is classified by the Department of Economics as being exclusively a final year module.

Elective Modules

You may select up to 45 credits from a wide range of undergraduate module options, e.g. Languages, <u>Management</u>, <u>Mathematics</u>, <u>Psychology & Language Sciences</u>, <u>Science &</u> <u>Technology Studies</u>. You may not select a Level 4 Mathematics module, or both STAT0013: Stochastic Methods in Finance 1 and MATH0031: Financial Mathematics.

MSci Statistical Science (International Programme)

Aims

This programme provides a broad, thorough and intellectually challenging training in the theory and practice of statistical science, together with experience of education in a different cultural and / or linguistic setting, which will broaden your horizons and prepare you for a variety of careers that have a special emphasis on international expertise. As a graduate of the programme, you should be able to proceed directly to a post as a statistician in industry, commerce or the civil service, or by profiting from the general numeracy and reasoning skills acquired during the programme, to take up a trainee position in accountancy, insurance or management. The programme is also designed to provide you with a preparation for postgraduate study in statistics.

Objectives

The programme provides opportunities for you to develop and demonstrate knowledge and understanding in the following areas.

- Fundamental ideas of probability theory and applied probability.
- Appropriate methods of statistical inference, in a variety of standard situations and over a range of applied areas.

⁵² This module is expected to be challenging for Econ/Stats students and ECON0048: Economics of Finance (Level 5) from the second list may be a more accessible alternative.

⁵³ You may not select both ECON0048: Economics of Finance and ECON0113: Advanced Economics of Finance.

- At least one major statistical computer package.
- Deepened / advanced understanding of statistical theory and its applications in a variety of areas.
- Mathematical methods associated with the above areas.

On successful completion of this programme, you will be able to do the following.

- Explain the concepts and properties of discrete and continuous random variables, common probability distributions (both univariate and multivariate), and carry out basic calculations associated with these.
- Summarise the main features of a set of data, and explain and use basic methods of statistical estimation and significance testing in a variety of standard situations; explain and use basic concepts in the theory of statistical inference.
- Explain, and apply to simple situations, basic ideas in applied probability such as Markov chains and Markov processes (discrete states only).
- Recognise the structure of the data in a variety of standard situations and define the problem to be solved in statistical terms.
- Select and apply appropriate statistical methods, and interpret the results.
- Carry out a critical evaluation of an analytical method, recognising both its strengths and its limitations.
- Take different perspectives.
- Be aware of different possible approaches to problems.
- Demonstrate and exercise independence of mind and thought.

Curriculum

Students may be accepted onto the International Programme from year 1 with the intention of following the first two years of either the Stats, SEF or SEL BSc programmes (but not Data Science, Econ/Stats or SAMB). Alternatively, students starting on one of these programmes may be allowed to transfer to the International Programme after their first year. The Department will only support a limited number of students on the International Programme. Where more students seek to follow the programme than there are opportunities available, the candidates will be selected by the Study Abroad Tutor in conjunction with the Departmental Tutor, based on overall profile of academic performance, enthusiasm and contribution to the Department. Students who wish to study in a language other than English must be able to demonstrate linguistic competence through qualifications and / or following UCL language modules. The Department may ask the UCL Centre for Languages & International Education to assess students seeking to study abroad.

Years 1 and 2 are the same as for the corresponding BSc programme selected at the start of year 1 except that, if required, a student should take up to 30 credits of language modules in the first two years. These language modules should be taken instead of options named in the programme structure of the selected programme; students will be required to take all of the compulsory first and second year modules of the selected programme.

Year 3 will be the year abroad. Students studying abroad must follow a programme that is to the fullest extent possible agreed in advance with the Study Abroad Tutor. The programme must

- be of equivalent depth and quality to the third year of one of our BSc programmes;
- be substantially composed of modules in statistics or closely related allied disciplines such as mathematics, econometrics, operations research, computer science;

- be of equal workload to that of the UCL third year of one of our BSc programmes, that is, using accepted equivalence measures, be of 120 credits;
- be formally assessed by the host institution and the results of the assessment independently reported to the Study Abroad Tutor;
- include taught modules / credits, i.e. not consist solely of project work;
- be formally documented by the student in an up to date written study plan, signed by the Study Abroad Tutor and kept by the Departmental Tutor.

Due to the variety of international marking systems, year 3 assessment results will be translated to a "UCL equivalent" for the purpose of degree classification. The translation is done on a case-by-case basis, taking into account the known correspondence between marking scales at different institutions as well as any relevant individual circumstances. No attempt is made to translate marks for individual modules: rather, a single mark for the year abroad is recorded and this is treated as a 120 credit module for the purpose of applying the classification formula (see "Classification scheme" section on page 54).

In year 4, the choice of modules should complement the ones taken in the year abroad. All 120 credits must be selected at Level 7, at least 90 credits of which should be chosen from amongst the modules offered by the Department of Statistical Science. The module STAT0008: Statistical Inference is compulsory unless the student has already covered this material in equivalent depth during the year abroad. Similarly, a student must also undertake statistical project work amounting to the equivalent of at least 30 credits, either as a compulsory 30 credit Level 7 statistical project in the final year, or by registering for at least a 15 credit project module in each of years 3 and 4 and undertaking the work over two years. Optional modules must be agreed by the Study Abroad and Departmental Tutors, in order to avoid overlap caused by attending an overseas institution.

BSc/MSci Mathematics and Statistical Science

The <u>MASS degree programme specifications</u> are available from the Department of Mathematics.

UCL STUDENT SUPPORT FRAMEWORK

UCL is committed to providing the support you need in order to make the most out of your studies. The Student Support Framework draws together our main academic support processes under one banner to help you understand the options open to you.

Further information:

UCL's Student Support Framework

How to use this framework

This section helps you find your way around the different support options open to you. It includes:

- Where to find help and advice
- Information about when to use this framework (for example if you are an affiliate, study abroad or placement student)
- Advice on confidentiality and how UCL will look after your data
- Information on providing supporting evidence
- Links to other support options that are available to you.

Types of support

This section explains how each of the following processes works:

| Support process: | Use this if: | What this covers: |
|--|--|--|
| Short-term Illness and other Extenuating Circumstances | You have a short-term illness, bereavement or other unexpected emergency. | 'Extenuating Circumstances' (often know as 'ECs') are events which are sudden, unexpected, significantly disruptive and beyond your control and which may affect your performance at summative assessment, such as a serious illness or the death of a close relative. You can submit an Extenuating Circumstances claim to access 'mitigation' such as an extension or deferring an assessment to a later date. |
| Reasonable Adjustments for Disabilities and Long-term Conditions | You have a disability or long-term physical or mental health condition. | UCL can provide longer-term 'Reasonable Adjustments' to support your learning and assessment. This includes setting up a 'SoRA' (Summary of Reasonable Adjustments) with UCL's Student Support and Wellbeing team. |
| Academic Adjustments | You need long-term or ongoing support with one or more of the following: You or your partner is pregnant or planning maternity, paternity or adoption leave You are a parent or carer You observe religious beliefs or cultural customs You are affected by any form of harassment or discrimination You are affected by traumatic world events such as war or terrorism You are a critical worker (e.g. NHS staff). | Academic Adjustments include long-term reasonable adjustments arranged by your Department if you need additional support with learning, teaching and assessment. |
| Exam Adjustments | You need additional support to sit an online or face-to- face exam. | Exam Adjustments are specifically for Controlled Condition Exams and Take- Home Papers, and include adjustments such as extra time, rest breaks, a more comfortable chair and specialist equipment. These are available to students with a longer-term disability or health condition, and to students who need shorter-term support e.g. if you are pregnant, or have a broken arm. |

| Support process: | Use this if: | What this covers: |
|--|--|---|
| <u>Interruption of</u> <u>Study</u> | You are thinking of taking time out from your studies. | Interruption of Study is for students who wish to take a break from their studies and return at a later date. You can take time out from your studies for a wide range of reasons - you might want to take up an internship or placement, take time out to travel, be planning to have children, or be facing personal challenges which are making it hard to study. |
| Support to Study | You are having persistent or ongoing difficulties and UCL's other support processes are not providing the right level of help. | Support to Study aims to help you if you are having significant, persistent, longer- term difficulties and UCL's normal mechanisms (e.g. Reasonable Adjustments, Extenuating Circumstances, Interruption of Study) are not providing enough support. We will work with you to put together a Support Plan to help you get the most out of your studies. |

The Student Support Framework is just one of the ways in which UCL helps you to get the most out of your time with us:

| The Student Support Framework | Your Personal Tutor | Your Department |
|--------------------------------------|--------------------------------|---------------------------------------|
| The Student Support | One of your first priorities | Help is also available from |
| Framework explains how you | should be to meet your | members of staff in your UCL |
| can apply for formal support | Personal Tutor. They will help | department including |
| with your studies such as | you to get the most out of | academic staff and |
| extensions, reasonable | your studies, and provide | departmental administrators. |
| adjustments, or taking time | support and encouragement | You can find their contact |
| out from your studies. | during your time with us. | details in this handbook. |
| UCL Student Support and Wellbeing | FAQs and Enquiries | Students' Union UCL Advice Service |
| UCL's team of expert | askUCL is our self-help | The Students' Union UCL |
| wellbeing, disability and | centre and student enquiry | provides a free, confidential |
| mental health staff provide a | system. It includes a wide | and independent advice |

safe, confidential and nonjudgemental space in which you can discuss any issues that may be affecting your ability to study.

range of Frequently Asked Questions. If you can't find what you're looking for, you can log an enquiry.

service with a trained and experienced team.

ASSESSMENT

Components of summative assessment

For most modules, your final mark is derived from a combination of in-course assessment, i.e. assessment that takes place during the term in which the module is taught, and final examination, which takes place after all the teaching for the module has been delivered.

In-course assessment

At the beginning of each module, the lecturer will provide details of the method and dates of in-course assessment and the amount of work involved. The assessment dates will also be posted on the module Moodle page. **Students should ensure that they have no other commitments on these dates.** The proportion it normally contributes towards the overall mark is given for each module in its <u>UCL Module Catalogue</u> entry. For students required to resit the in-course assessment without further tuition, an alternative form of assessment may be employed for the second attempt.

Each piece of in-course assessment set by the Department of Statistical Science has its own rubric and the instructions given must be followed. In particular, do pay attention to the consequences of missing the deadline set, non-submission and academic misconduct; any of these can result in your not passing the module. Teaching staff will set aside extra drop-in hours to discuss assessment-related matters (see page 13); students should respect the lecturers' time by confining queries to these hours.

Some assessments will be uninvigilated, to be worked on outside of class and handed in by a set deadline. For such assessments, you will need to complete a declaration affirming that the submitted work is entirely your own (see "Plagiarism and collusion" section on page **Error! Bookmark not defined.**).

Late submission penalties: Planning, time-management and the meeting of deadlines are part of the personal and professional skills expected of all graduates. For this reason, UCL expects students to submit all assessments by the published deadline date and time, after which penalties will be applied. If a student experiences something which prevents them from meeting a deadline that is sudden, unexpected, significantly disruptive and beyond their control, they should submit an Extenuating Circumstances Form (see page 43). If the request is accepted, the student may be granted an extension. If the deadline has already passed, the late submission may be condoned i.e. there will be no penalty for submitting late.

Further information:

- <u>Coursework Deadlines and Late Submissions</u>
- Online Exam and Take Home Paper Durations and Late Submissions

Word counts: some assessments (usually involving the production of reports) carry a specified word count. The rubric will include clear instructions about word counts, the inclusion of footnotes, diagrams, images, tables, figures and bibliographies etc. Students are expected to adhere to the requirements for each assessment. Students exceeding these parameters may receive a reduction in marks. The rubric may indicate that the word count excludes appendices. However, this should not be regarded as an invitation to transfer large amounts of surplus text into an appendix and the mark awarded will reflect the standard of judgement shown in the selection of material for inclusion.

Further information:

Word Counts

Final examinations

These normally take place during Term 3. Student and Registry Services will contact you with details of your personal examination timetable, normally just before the end of Term 2. Students must ensure that they are aware of the regulations governing assessments and examinations on the <u>Exams and Assessments</u> website.

Overall module mark

To pass a module at Levels 4, 5 and 6, a final mark of at least 40.00% is required. To pass a Level 7 module, a final mark of at least 50.00% is required. For Statistical Science modules

with more than one assessment component, the scheme used for combining the individual marks is given for each module in its <u>UCL Module Catalogue</u> entry.

UCL feedback turnaround policy

Regular feedback is an essential part of every student's learning. It is UCL policy that all students receive feedback on summative assessments within one calendar month of the submission deadline (excluding the UCL Christmas closure period). This feedback may take the form of written feedback, individual discussions, group discussions, marker's answers, model answers or other solutions (although students should note that UCL is generally unable to return examination scripts or comments on the same). Students writing dissertations or research projects should also expect to receive feedback on a draft on at least one occasion.

If, for whatever reason, a department/division cannot ensure that the one calendar month deadline is met then they will tell students when the feedback will be provided - it is expected that the extra time needed should not exceed one week. Where feedback is not provided within the timescale, students should bring the matter to the attention of their Departmental Tutor or Head of Department.

Further information:

<u>Assessment Feedback</u>

Academic integrity

A core principle of learning that we emphasise throughout your time at UCL is **academic integrity**: this amounts to being honest about your academic work. A failure to maintain academic integrity could be classed as academic misconduct (i.e. cheating). The penalties for academic misconduct can be severe, and repeated misconduct can even result in exclusion from UCL.

As a UCL student, you are expected to familiarise yourself with the University's guidance on maintaining integrity in your work. A good starting point is <u>UCL's Academic Integrity website</u> and you may also find <u>UCL's Library Guide to References</u>, <u>Citations and Avoiding Plagiarism</u> helpful.

What is, and isn't, acceptable will vary from assessment to assessment. Make sure that you know what is expected of you, whether you are working on an assessment outside of class or sitting an exam. Some important pointers:

- Some uninvigilated assessments may require you to work alone on the allocated task, in which case any collaboration with another student, use of essay mills, or any form of contract cheating, is not permitted and could be classed as misconduct. Other such assessments may permit you to work in a group, in which case collaboration between groups is not allowed.
- The use of AI to help with assessments may be prohibited. Make sure that you check the assessment's requirements. Ask the module lecturer if you're not sure what is acceptable. If you use AI then you must acknowledge this appropriately. For more information about AI and academic misconduct, visit <u>UCL's AI in assessment webpage</u>.
- If you are sitting an invigilated exam you should familiarise yourself with <u>exam hall</u> <u>requirements</u>. It is also a good idea to read UCL's policy on what you can bring in to an exam hall (and what you can't), and expected conduct during an exam, which you can find in the <u>Academic Manual, Chapter 6, Section 9.2</u>.

Academic misconduct

There are a number of different types of misconduct that can arise. A <u>list is available in the</u> <u>Academic Manual</u>. Some misconduct types are discussed in more detail below, and examples of cases which have occurred in the Department of Statistical Science are also given.

UCL has a <u>procedure for investigating possible academic misconduct</u>. While some cases can be dealt with by the module lecturer, most will be handled by the Chair of the Board of Examiners in Statistical Science. If, after suitable investigation, the student(s) is (are) found guilty of academic misconduct, <u>UCL's penalty framework</u> will be used to decide on an appropriate penalty.

Different types of academic misconduct are explained below, but note that this is not an exhaustive list; more are described in the <u>Academic Manual</u>.

Plagiarism and collusion

Plagiarism means attempting to pass off someone else's work as your own, while collusion means passing off joint work as your own unaided effort. Both are unacceptable, particularly in material submitted for assessment purposes including take-home papers and coursework that contribute to your overall module mark. Plagiarism and collusion are regarded by the College as academic misconduct and are taken very seriously. UCL uses a sophisticated detection system (Turnitin®) to scan work for evidence of plagiarism and collusion, and the Department reserves the right to use this for assessed work. This system gives access to billions of sources worldwide, including websites and journals, as well as other work submitted to the Department, UCL and other universities. It is therefore able to detect similarities between scripts that indicate unacceptable levels of collusion, as well as material taken from other sources without attribution.

In addition to Turnitin, module staff will have their own procedures to check submissions for plagiarism and collusion. This includes other software-based detection systems for checking the similarity of computer code.

If plagiarism or collusion are suspected, on the basis either of the Turnitin® software or other evidence, <u>UCL's Academic Misconduct procedures</u> will be used.

Other common forms of academic misconduct

Plagiarism and collusion are not the only forms of academic misconduct. An <u>extensive list is</u> <u>available in the Academic Manual</u>, and here we focus on three other types of misconduct that have occurred in the Department of Statistical Science recently. These are particularly relevant for uninvigilated assessments.

Self-plagiarism is defined in the Academic Manual as 'the reproduction or resubmission of a student's own work which has been submitted for assessment at UCL or any other institution'.

Contract cheating is defined in the Academic Manual as 'commissioning a piece of assessment to be carried out by a third party or knowingly using a commissioned piece of assessment'. This includes, for example, asking someone else to complete parts of an assessed piece of work which you later submit for grading, even if you modify the (part) solutions that you receive.

UCL also have a catch-all category of misconduct that amounts to 'any other conduct that would give an unfair academic advantage to a student'. This includes any conduct that is not permitted according to the assessment instructions including inappropriate discussion of the assessment or having sight of another candidate's work, or use of AI when this is not permitted.

What isn't acceptable?

Students sometimes find it difficult to know what counts as plagiarism or collusion. The following list is not exhaustive, but gives some indication of what to avoid. It is based on guidelines developed by Nick Hayes of the UCL Pharmacology Department.

You may not:

- Create a piece of work by cutting and pasting material, e.g. texts or figures, from other sources (including websites, books, lecture notes and other students' work).
- Use someone else's work as your own. This includes, but is not limited to:
 - Making notes while discussing an assessment with a friend, and subsequently using these as the basis for all or part of your submission.
 - Telephoning another student to discuss how best to carry out a particular piece of analysis.
 - > Employing a professional ghostwriting firm or anyone else to produce work for you.
- Use somebody else's ideas in your work without citing them (this includes AI).
- Ask a lecturer in the Department for help with assessed work, unless you make it clear to them that the work is assessed.
- Help another student with their assessed work. If you do this, you will be deemed to be guilty of an examination irregularity.

What is acceptable?

The following practices do **not** constitute plagiarism / collusion:

- Quoting from other people's work, with the source (e.g. book, lecture notes, website) clearly identified and the quotation enclosed in quotation marks.
- Summarising or paraphrasing other people's work, providing they are acknowledged as the source of the ideas (again, usually this will be via a reference to the book, journal or website from which the information was obtained).
- Asking the module lecturer for help with difficult material, providing it is clear that the question is in connection with the assessment. The lecturer will be able to judge for him or herself what is an appropriate level of assistance.

Some examples

Unfortunately, each year there are some students in the Department of Statistical Science who submit work that goes against the regulations. The consequences can be severe. Below are some examples of recent cases in the Department.

Example 1 Final-year student A had a lot of coursework deadlines in the same week as an important job interview. One of the coursework deadlines was for an extended piece of data analysis, set two weeks previously. Because of his other commitments, student A did not start this piece of coursework until shortly before the deadline at which point he discovered that he did not have enough time to do it. He asked student B for help. The result was that both students submitted essentially identical work using the same computer output. A Departmental panel was convened to investigate the matter. The panel suggested that student B had passed electronic material (computer output and graphics files) to student A, who had used this material in his own submission. Although student A admitted asking student B for help, both students denied exchanging material. They were, however, unable to explain how the similarities in both pieces of work had come about. As a result, the allegation was upheld and both students were penalised. Student A was given a mark of zero for the

module in question (this meant that he had no possibility of passing it that year), and student B was given a mark of zero for the coursework component.

Example 2 Students C and D both had to submit some computer code for an assessment, which was worth one third of the total mark for a module. There was considerable flexibility in how to go about the assessment. Although the students submitted code that looked very different, closer inspection revealed that they were carrying out the same procedures in more or less the same order, and that the methods they used to carry out these procedures were essentially the same. Further, these procedures and methods were not used by other students in the class. On investigation, it transpired that the students had discussed the assessment over the phone while sitting in front of their computers. This is unacceptable, and as a result the marks of both students for this piece of assessment were halved.

Example 3 The in-course assessment for a particular module was organised as a multiple choice exam taken via Moodle, to take place outside of lessons. Each student could attempt the one-hour exam at any time of their choosing within a ten day window, but were clearly told that they must work alone. After the exams had been graded, the module lecturer noticed that students E and F had given identical answers to every question (including incorrect answers). Inspection of the Moodle logs revealed that the students had started and finished their attempts at exactly the same time, using IP addresses that were traced to adjacent PCs in the same computer cluster. Students E and F admitted colluding on the incourse assessment and were both given a mark of zero for that component.

Example 4 A student alerted staff to inappropriate discussion that took place during an online open-book exam. The student provided screenshots of solutions to parts of the test paper that had been circulated during the exam via WhatsApp. During the marking process, the module lecturer also noted similarities in the solutions to some questions among a large group of students. The module lead reported the similarity and a large-scale investigation was conducted, which included a departmental panel. Some of the accused students admitted to using the circulating solutions as part of their submissions and penalties applied according to the UCL regulations. The majority of the remaining accused students - who did not admit to using the circulating solutions during the exam – were also penalised as the panel concluded that the similarities in their scripts with the circulating solutions were too striking and on the balance of probabilities did not occur by chance alone.

Example 5 A student who was struggling with a module commissioned a third party to help with completing an online open-book exam. During the marking process, the module lecturer became suspicious of the submission as the questions on the exam paper had been answered in different styles. Given that the module lecturer could not identify any other script with similar style answers to the script in question – making collusion unlikely – the case was forwarded to UCL's central Academic Misconduct panel as a possible case of contract cheating. The panel found the student guilty, and given the severity of the misconduct, the student was permanently excluded from UCL and did not receive an exit award.

Example 6 Two students, G and H, had an upcoming deadline for a piece of coursework. Both were working individually in the library on their respective submissions on personal laptops at adjacent desks. Student G left their laptop for a few minutes, during which time student H took a picture on their phone of student G's uncompleted coursework. Using the pictures, student H took inspiration from student G's approach to the coursework and altered their work accordingly. During marking, the module lecturer noticed that the approach both students had taken was strikingly similar, and on querying the students, student H admitted to have taken screenshots of student G's work while they were away from their laptop. Student H was penalized according to UCL regulations.

How to avoid plagiarism and collusion

If you are found to have committed an offence of plagiarism or collusion, it makes no difference whether or not you intended to do so. Ignorance is no excuse. To avoid

committing an offence, a useful rule of thumb is: if in doubt, don't do it. Make sure that any work you submit is your own unaided effort (unless, of course, the assessment allows groupwork). More specific guidance is as follows:

- Plan your work schedule carefully, to allow enough time to complete each piece of assessment.
- If you have genuine problems in meeting a deadline, don't take the easy way out and borrow a friend's work. Discuss your difficulty with the module lecturer in the first instance.
- If you are stuck with an assessment, don't ask another student for help. Discuss it with the module lecturer.
- If another student asks you for help with an assessment, or asks to see your work, suggest that they approach the module lecturer instead. Remember: if somebody else copies or uses your work, you will be penalised as well, even if you didn't expect them to use your work in this way.

What to do if you suspect academic misconduct

As misconduct is cheating, and it devalues UCL qualifications for students who achieve their results honestly, students suspecting academic misconduct among their peers may want to alert relevant members of staff accordingly. The quickest way of doing this is to approach the relevant module lecturer directly. However, we understand that you may want to retain some level of anonymity. In this case, please contact Karen Leport (k.leport@ucl.ac.uk). Ms Leport can act as a mediator between you and the module lecturer so that your identity is not revealed.

Examination marks

First and second marking

All work that is submitted for summative assessment is marked by a UCL Internal Examiner or Assistant Internal Examiner. All UCL programmes also include second-marking and internal moderation processes to ensure that marking is consistent and fair. Second-marking can take a number of different forms depending on the type of assessment, but the overall aim is to ensure that marking is as accurate as possible. Internal moderation also helps UCL to ensure that marking is equitable across different modules, pathways, options and electives.

Moderation

The "raw" mark for an assessment may not be the final mark that is awarded. An Internal Examiner, usually the module organiser, will carefully consider *grade boundaries* by examining a sufficient range of scripts and using the grade descriptors summarised on page 16. These boundaries determine the raw mark required to achieve each grade. Once the grade boundaries have been set, the examiner will calculate the associated percentage mark on the UCL scale from 0.00% to 100.00%.

For example, for a particular assessment marked out of 100, the examiner may decide that submissions scoring at least 58/100 meet the criteria for a grade B (equivalent to a percentage mark of 60.00% on the UCL scale), while those scoring at least 71/100 meet the criteria for a grade A (equivalent to a percentage mark of 70.00% on the UCL scale). Therefore a score of 58/100 is converted to 60.00%, a score of 71/100 is converted to 70.00%, while a score strictly between 58 and 71 is converted to the relevant percentage mark using linear transformation.

It should be noted that the examiner may decide that such conversions are not necessary, e.g. a score of 60/100 (and no less) does indeed match the descriptor for a grade B so is converted to 60.00% on the UCL percentage scale, or that grade boundaries may be above or below what is expected as in the example above.

All examiners are required to justify their choice of grade boundaries formally, which the second examiner must agree. The External Examiner (see next section) also reviews this justification and can request changes if necessary.

External examining at UCL

External Examiners are senior academics or practitioners from other universities who help UCL to monitor the quality of the education we provide to our students. In particular, External Examiners scrutinise the assessment processes on each programme, helping UCL to ensure that all students have been treated fairly, that academic standards have been upheld and that the qualifications awarded are comparable with similar degrees at other UK universities.

Each External Examiner submits an online annual report. Faculties and departments are required to reflect on any recommendations and address any issues raised in a formal response. The report and response are discussed with Student Reps at the Staff-Student Consultative Committee, and are scrutinised by faculty, department and institution-level committees. Students can access their External Examiner's report and departmental response via the "My Studies" page through their Portico account either through 'Module Assessment' or 'Summary of Results and Awards' or by contacting their Programme Administrator in the first instance. On the same "My Studies" Portico page, students can also access UCL wide External Examiners reports for the last three years. For central queries relating to External Examining, please contact Student and Registry Services at <u>examiners@ucl.ac.uk</u>.

Boards of examiners

Marks are finalised at meetings of examiners in the departments offering the modules. When finalising marks, examiners in the Department of Statistical Science compare results between modules of the same difficulty level in order to ensure comparability of standards. Recommended degree classifications for final year students registered on the Data Science, Statistics, SEF, SEL and MSci International programmes are made at the Departmental Examiners Meeting. Recommended degree classifications for the Econ/Stats, SAMB and MASS degrees are made by separate examination boards for these joint programmes comprised of academics from both major fields of study.

Appeals concerning examination results

Where informal resolution is not possible, candidates may appeal against their examination results under one or more of the following conditions:

- Either the examination and/ or classification process was not conducted in accordance with the relevant regulations/ procedures.
- The examiners could not reasonably be made formally aware of special circumstances (e.g. illness) notified by the candidate which significantly affected his/ her performance in the examination. For a candidate to appeal on these grounds, it is necessary to demonstrate that they could not reasonably have submitted the appropriate claim for Extenuating Circumstances by the required deadline (see page 43).
- There has been an arithmetical or transcription error in the compilation of the marks and/ or the result.
- There is substantive evidence that one or more of the examiners can be shown to have been biased or prejudiced against the candidate in one or more specific examinations.

Any such appeal should be pursued via the Academic Appeals Procedure (see page 64). Note that appeals will **not** be considered except under one or more of the conditions above. The Department of Statistical Science would therefore like to reassure all students that all staff in the Department take the assessment process extremely seriously. The marking process described above is designed to ensure that papers are marked fairly and accurately, with all marks agreed by at least three examiners (two internal and one external) and any difficulties discussed by the entire Board of Examiners.

Information about the consequences of failure

Students are permitted a maximum of two attempts at any given assessment. If a student fails an assessment at the first attempt they might:

- Be eligible for Condonement
- Need to Resit or Repeat the assessment
- Apply for a Deferral or other support (see page 43)

Condonement

Condonement allows a student to progress from one year to the next and/ or to be awarded a qualification where they are carrying a small amount of failure, as long as their overall performance is of a good standard and the requirements of any relevant professional, statutory or regulatory bodies are met. Students who meet the condonement criteria will not be reassessed. Condonement can be applied only to module marks falling within a certain range, and students will need to meet defined criteria to be eligible for condonement. For undergraduate programmes, the condonable range is 1.00-39.99% for modules at Levels 4, 5 and 6 and 1.00-49.99% for modules at Level 7.

Some modules may be 'non-condonable' i.e. students must pass them. A student's eligibility for condonement in any given module is determined by the **programme** on which they are enrolled. For all seven of the degree programmes listed at the top of page 2, the modules: STAT0003 Further Probability and Statistics, and STAT0005 Probability and Inference are both non-condonable. These modules introduce and then develop a formal and mathematical framework for the study of probability and statistics that underpins almost all of Statistical Science, including most of the advanced topics studied in years 2 and 3.

Further information

- <u>Condonement</u>
- Guide to Undergraduate Condonement

A student will be awarded a mark of 0.00% for an assessment component and will be deemed to have made an attempt where they:

- Are absent from an examination or other assessment event without prior permission.
- Attempt so little of a paper or task that it cannot be assessed.
- Do not submit coursework.

To avoid being awarded a mark below the condonable range for a particular module through absence from assessment, students must obtain authorisation for the absence by submitting a request for extenuating circumstances (see page 43).

Reassessment

Depending on the amount of failure, reassessment may take the form of either a resit, which usually takes place in the late summer, or a repeat in the following academic session. The marks for modules successfully completed at the second attempt will be capped at the pass mark – 40.00% for modules at Levels 4, 5 and 6 and 50.00% for modules at Level 7.

Further information:

• Consequences of Failure

Deferred assessment

If an assessment has been affected by Extenuating Circumstances students may be offered a deferral i.e. a 'new first attempt' or a 'new second attempt'. If the student successfully completes a deferral of their first attempt, their module marks will not be capped. If the student successfully completes a deferral of their second attempt (i.e. they have Extenuating Circumstances on a resit or repeat), their module marks will be capped at the pass mark (i.e. the existing cap will not be removed).

Further information:

Deferred Assessment

PROGRESSION, AWARD AND CLASSIFICATION

UCL's progression and award requirements define how many credits and modules students need to pass to progress from one year of study to the next and to be awarded a UCL qualification.

Progression and award requirements

In order to progress from one year to the next, or to be awarded a Bachelors with Honours or an Integrated Masters with Honours, a student should pass 120 credits in each year of study. A student who does not pass 120 credits in a year of study will nonetheless be considered to have met the progression and award requirements if they satisfy all of the following condonement criteria in that year of study:

- Pass all non-condonable modules (STAT0003 in year 1; STAT0005 in year 2),
- Attain marks in the condonable range in no more than 30 credits,
- Pass the remaining credits,
- Have attained marks in the condonable range in no more than 60 credits up to and including the current year of study,
- Achieve a credit-weighted mean of at least 40.00% (50.00% in the Masters year) across 120 credits.

Students unable to meet these requirements having exhausted all reassessment attempts may be eligible for an interim qualification, i.e. a Certificate of Higher Education, Diploma of Higher Education or Ordinary Degree. Any such award will be unclassified.

Further information:

- Progression and Award
- Interim Qualifications

MSci degree

In addition to the above criteria, the following progression rules apply to the MSci International programme:

• Year 2 to Year 3: a student will automatically progress who has an overall weighted mark (i.e. weighted mean of years 1 and 2) of 59.50% or greater, AND has a year 2 credit-weighted mean of 59.50% or greater.

- Year 3 to Year 4: a student will automatically progress who has an overall weighted mark (i.e. weighted mean of years 1, 2 and 3) of 59.50% or greater, AND has a year 3 credit-weighted mean of 59.50% or greater.
- If a student does not satisfy the 59.50% requirement, but has weighted means of 49.50% or greater, continuance on the MSci programme may be permitted at the discretion of the Programme Board of Examiners.

The relative weightings used in the calculation of the overall weighted mark are the same as those specified in the classification scheme (see below). A student who fails to progress from year 3 to 4 must transfer to the BSc programme followed in the first two years (there is no opportunity for reassessment of the year abroad). A student who fails to progress from year 2 to 3 cannot go abroad and must transfer to the corresponding BSc programme.

Classification scheme

Students who have successfully completed the progression and award requirements will be awarded a classification. A final weighted mark will be calculated from the individual module marks as follows, rounded to two decimal places:

| | Year 1 | Year 2 | Year 3 | Year 4 |
|-------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 3 Year BSc | All 120 credits weighted at 1 | All 120 credits weighted at 3 | All 120 credits weighted at 5 | n/a |
| 4 Year MSci | All 120 credits weighted at 1 | All 120 credits weighted at 3 | All 120 credits weighted at 5 | All 120 credits weighted at 5 |

The following rules will then be used to determine the classification:

| First Class Honours (1) | A final weighted mark of at least 69.50% | |
|--|--|--|
| | OR | |
| | A final weighted mark of at least 68.50%, AND Module marks of at least 70.00% in at least 50% of the final year credits | |
| Second Class Honours Upper Division (2.1) | A final weighted mark of at least 59.50% | |
| | OR | |
| | A final weighted mark of at least 58.50%, AND | |
| | • Module marks of at least 60.00% in at least 50% of the final year credits | |
| Second Class Honours Lower Division (2.2) | A final weighted mark of at least 49.50% | |
| | OR | |
| | A final weighted mark of at least 48.50%, AND | |
| | • Module marks of at least 50.00% in at least 50% of the final year credits | |
| Third Class Honours (3) | A final weighted mark of at least 40.00% | |

Specific regulations for each individual programme are published in the Portico Progression and Award Rules Tool. Students will be notified when their regulations are available. To find the Tool, students should click on the 'My Programme' box on the 'My Studies' page in Portico. The 'Progression and Award Rules' link is below the programme information.

The rules published here apply to students who have followed a standard progression. If you started your programme earlier than 2020/21 and subsequently interrupted or repeated some of your studies, your classification may be calculated differently. Please contact your Programme Administrator for further details.

Further information:

<u>Classification</u>

Prizes and medals

Departmental

The following sessional prizes may be awarded to students on the Data Science, Statistics, SEF, SEL, SAMB, Econ/Stats and MSci International programmes:

- Two first year sessional prizes for outstanding performance in the first year;
- Two second year sessional prizes for outstanding performance in the second year;
- One final year sessional prize for outstanding performance in the final year;
- Up to five undergraduate project prizes: for outstanding performance in STAT0035/36.

Faculty

The Department may nominate outstanding students for consideration by the MAPS Faculty for the following awards:

- Kathleen Lonsdale Medal: a final year student
- Dean's Commendation: final year students
- UCL Scholarships for Excellence: one first year and one second year student

Other

• *Royal Statistical Society Prize:* a final year student on an RSS accredited programme (currently these are Statistics, SEF, SEL, Econ/Stats, the MSci International programme and MASS).

CHANGES TO REGISTRATION STATUS

Students wishing to make changes to their registration status should first discuss their plans with their Personal Tutor or the Departmental Tutor who can explain the options available and help students to make the right decision. Students should also ensure that they read the relevant sections of the UCL Academic Manual before making any requests to change their academic record.

Data Science, Statistics, SAMB, SEF, SEL and Econ/Stats students: please consult the Departmental Tutor (this applies for modules in any subject). For Econ/Stats students, there is also a tutor available in the Department of Economics whom you may consult about the Economics modules in the degree programme.

MSci students: please consult the Departmental Tutor (this applies for modules in any subject). For organisation of the year abroad, please consult the Study Abroad Tutor.

MASS students: please consult the Departmental Tutor in the Department of Mathematics (this applies for modules in any subject). You may also consult the Statistics Tutor to MASS Students about the Statistics modules in the degree programme.

Further information:

<u>Changes to your studies</u>

Changing programme

If a student wishes to transfer from one UCL degree programme to another, they must make a formal application. The usual deadline for change of degree programme during the academic session is the end of October each year (for students registering in September, with a later date for students registering in January) to be compatible with module selection deadlines, although later transfers may be possible, where the transfer does not affect module selections. Students should log in to their Portico account and complete the online application. Students are strongly advised to discuss their plan with the departments involved before requesting a change of programme on Portico.

Further information:

- <u>Change your programme or modules</u>
- Programme Transfers

Tier 4 students and changing programmes

Only some Tier 4 students are permitted to change their programme at UCL without first completing their previous programme. There are some circumstances where a Tier 4 student is permitted to change programme, however please be aware that this could affect your current Tier 4 visa and you could be required to apply for a new visa from outside the UK. Changing to a programme at a lower level than your previous/ current programme is not permitted under Tier 4 regulations.

If you are thinking of changing programmes at UCL and you hold a Tier 4 visa, please get in touch with the Visa Compliance Team for further information: <u>visacompliance@ucl.ac.uk</u>.

Withdrawing from a programme

If a student wishes to leave their degree programme prior to completing their final examinations they must apply for a formal withdrawal from their studies. Applications must be made in advance of the effective date of change. Students should log in to their Portico account and complete the online application.

Further information:

- Interrupting or withdrawing from your studies
- Withdrawing from a Programme

Informing the Student Loans Company of changes to student status

If a student makes a change to their programme or registration status during the course of the academic year, it is important that the Student Loans Company (SLC) is notified. The SLC can then re-assess and update its records. Changes could include a student withdrawing from their academic programme, an interruption in studies or transferring to a new programme. The SLC must also be notified when there is a change in mode of study or when a student has returned from an interruption.

To inform the SLC of a change in your student status, a Change of Circumstance (CoC) form must be completed online by your Faculty. Please contact the Programme Administrator if you require a CoC form to be submitted on your behalf or if you have any related queries.

STUDENT SUPPORT AND WELLBEING

Central wellbeing and support services

UCL is committed to the wellbeing and safety of its students and tries to give assistance wherever possible to ensure that studying at UCL is a fulfilling, healthy and enjoyable experience. There is a wide range of support services for students - the <u>Support and</u> <u>wellbeing</u> website provides more information. Students should be aware that, while there are

many services on offer, it is their responsibility to seek out support and they need to be proactive in engaging with the available services.

The Student Enquiries Centre

Walk-in Service: The <u>Student Enquiries Centre</u> has a physical space that students can visit for walk-in questions and enquiries on the 1st floor of the Student Centre. We can assist you with questions or concerns you may have around your student record and give guidance and information on a range of areas such as Student Support Wellbeing, Fees, Study Abroad, or any matters regarding your studies at UCL. Our term-time hours are:

- 10:00 to 18:00 on Monday-Wednesday and Friday
- 10:00 to 16:00 on Thursday

Telephone Service: You can also contact us via our telephone service: +44 020 3108 8836. The telephone service hours are:

- 09:00 to 12:00 and 14:00 to 17:00 on Monday-Wednesday, Friday
- 09:00 to 12:00 and 14:00 to 16:00 on Thursday

askUCL: Log an enquiry via <u>askUCL</u>, our online student enquiries system, to ask a question or directions to a particular service. We are currently responding to enquiries between the hours of 09:00 to 18:00 (Monday – Friday) and will aim to provide you with a response within 5 working days.

Accessing our self-service options: Self-service remains the quickest and most efficient way for students to complete certain processes and obtain key documentation. We recommend that students use the following self-service opportunities:

- Launch <u>askUCL</u> to access the comprehensive and extensive database of Frequently Asked Questions (FAQs)
- The letter self-service options on Portico where students can print off a statement of student status (current students) or statement of award (alumni)
- The personal details & address containers on Portico where students can update their preferred name, title and addresses.

Student advisers for first year undergraduates

UCL Student Advisers are a key contact for first-year undergraduates for any wellbeing, support and student experience matters. They can help students navigate any aspects of student life that may appear challenging, including policies, assessments and finding the right kind of support. All UCL departments have dedicated Student Advisers who make contact with students before the start of the academic year to introduce their role and offer individual appointments.

Further information:

<u>Student Advisers</u>

Disability, Mental Health and Wellbeing Team

The Disability, Mental Health and Wellbeing Team in Student Support and Wellbeing (SSW) provide a safe, confidential and non-judgemental space, in which students can discuss any wellbeing, mental health and/or disability concerns that may be affecting their ability to study. This encompasses any personal or emotional challenges students may be experiencing, mental health difficulties such as anxiety or depression and long-term health conditions. The service also supports students with physical and sensory impairments, specific learning difficulties, and autistic spectrum conditions. As well as arranging for adjustments to learning environments, the team loan out specialist equipment. They provide one-to-one tutoring and

support for students with specific learning difficulties and mentoring for students with mental health conditions.

Further information:

- Support for disabled students
- Mental health and wellbeing support

Student Psychological and Counselling Services

Student Psychological and Counselling Services (SPCS) is dedicated to helping UCL students with personal, emotional and psychological concerns. The SPCS team is diverse and consists of a variety of highly trained and experienced professionals, who offer short-term CBT and psychodynamic support. There are currently two psychiatrists and ten therapists on staff with varying kinds of psychological training and expertise. Students wishing to access counselling through SPCS need to first complete an online registration form that can be found through the link below.

Further information:

Student Psychological and Counselling Services

International student support

The International Student Support team provide specialist support and advice for all non-UK students at UCL. They help international students settle into life in the UK and make the most of their time at UCL and in London. This includes practical guidance on healthcare, banking, transport and safety, as well as information about the International Student Orientation Programme (ISOP).

Further information:

International students

Study abroad support

The Study Abroad team provide administrative and welfare support to all undergraduate students undertaking a period abroad as part of their studies, working with colleagues, including Study Abroad Tutors, across academic departments in order to advise and guide students from application through to their return to studies at UCL. The team coordinates a diverse portfolio of global student opportunities via different projects: Student Exchanges and Exchange Agreements, the Turing Scheme, Global Experience (Summer Schools, volunteering abroad, short-term mobility).

Further information:

Go abroad

Accommodation

UCL Accommodation provides a range of housing options which includes two Halls of Residence (catered), self-catered Student Houses and Intercollegiate Halls (both catered and self-catered) shared with other colleges of the University of London. Each Hall has a designated Warden supported by a number of live-in Student Residence Advisers (SRA) to provide support for students and to foster a positive environment within the accommodation.

Further information:

<u>Wardens and Student Residence Advisers (SRAs)</u>

Financial support

The UCL Student Funding Office provides a central service aimed at supporting students with money matters. We can assist with scholarship, bursary and loan queries, and help signpost students to sources of funding. We also offer a range of resources and tips on money management. The easiest way to access our information and guidance is online, but for students with more complex circumstances an appointment can be booked with one of our Student Funding Advisers.

Further information:

- Financial support from UCL
- <u>Manage your money</u>

Transition mentors

The UCL Transition Programme supports new first-year students at UCL, helping them to settle in quickly and achieve their potential. Each first-year student is assigned a Transition Mentor for their first term. Transition mentors are later-year students within each department who work with small groups of students on a weekly basis to help them settle in to UCL and London as well as focussing on academic issues and topics specific to their degree programme. First-year students meet their Transition Mentor during the first week of term at their department's 'Meet your Mentor' session.

Further information:

Transition Mentors

Student of concern

There are many sources of support for students who are having difficulties, but sometimes it is hard to know how to help a student who appears to be struggling, particularly if they seem unwilling or unable to seek the help they need. Anyone concerned about the behaviour of a student, who believes the problem may be related to health and wellbeing issues, is encouraged to complete the online UCL Student of Concern Form. Depending on the concerns raised, Student Support and Wellbeing may respond by offering support or advice to the student or the person who submitted the form, liaise with support services or, if necessary, work with the relevant authorities to ensure the student is safe.

Further information:

If you are concerned about a student

Registering with a doctor and out-of-hours support services

Registering with a doctor

Students are strongly encouraged to register with a doctor as soon as possible after they arrive in London so that they can access healthcare quickly if they become ill or injured. When attending a university in the UK students under the age of 25 are also advised to be vaccinated against meningitis (ACWY). The Ridgmount Practice is a National Health Service (NHS) practice providing healthcare for students living within its catchment area (i.e. near the main UCL campus). Students can also choose to register with a practice closer to where they live if they prefer. The Ridgmount Practice also runs a walk-in surgery which any UCL student can attend, even if they are not registered with the practice.

Further information:

- <u>Register with a doctor (General Practitioner)</u>
- <u>Ridgmount Practice</u>

Counselling, support and information helpline

As part of a partnership with an organisation external to UCL, we provide an information and counselling helpline. The helpline is free of charge and includes access to information specialists who are trained by Citizens Advice and to professionally qualified and BACP-accredited counsellors who can help students with a range of emotional and psychological difficulties.

Further information:

• UCL 24/7 Student Support Line

Crisis support - immediate and urgent help

If anyone is in immediate danger, medical support can be received by:

- Attending an Accident & Emergency (A&E) department of a local hospital. <u>University</u> <u>College Hospital</u> is the nearest A&E department to UCL's main campus (this A&E department has a dedicated mental health unit).
- Calling 999 to request an ambulance if you are unable to reach the hospital yourself.

If a student is feeling distressed, urgent medical support can be obtained by:

- Contacting the student's GP surgery to request an emergency appointment.
- If the GP surgery isn't open, the free NHS out-of-hours medical line on 111 can help students access the right services.
- Calling the <u>Samaritans</u> on 116 123 to talk to someone at any time, day or night.
- <u>Nightline</u> are available overnight and can help students across London, call them on +44 (0) 207 631 0101.

Further information:

Urgent and out of hours support

Equality, diversity and inclusion

The Equality, Diversity and Inclusion Team aims to acknowledge, understand, and tackle structural inequities and unjust social power imbalances that affect our communities across the institution. This means recognising how we got here and what needs to be done to ensure equity, inclusion and belonging for those who are not systemically privileged by our society. UCL is a place where people can be authentic and their unique perspective, experiences and skills seen as a valuable asset to the institution.

The Equality, Diversity and Inclusion website brings together a range of information on issues relating to race, gender, religion and belief, sexual orientation, gender identity, and disability amongst other equalities initiatives at UCL.

Further information:

• Equality, Diversity and Inclusion

Inclusion Leads

Inclusion Leads provide support and assistance for students and staff on issues relating to equalities and diversity. The Inclusion Lead for the Department of Statistical Science is **Hanna Boeck** (<u>h.boeck@ucl.ac.uk</u>).

Further information:

- Inclusion Leads at UCL
- Support for pregnant students

- Support for student parents
- Faith and belief
- LGBTQ+ Students

Bullying, harassment, sexual misconduct and/or domestic abuse

Every student and member of staff has a right to work and study without experiencing harm. Bullying, harassment, sexual misconduct and/or domestic abuse of one member of our community by another or others is never ok. UCL is working to eradicate these issues and seeks to promotes an environment in which they are known to be unacceptable and where individuals have the confidence to raise concerns in the knowledge that they will be dealt with appropriately and fairly.

To help with this, UCL has **Report and Support**, an on-line reporting tool where students can report any issues anonymously or with contact details request to speak with an advisor to make an informed decision about their options.

Unacceptable behaviour includes:

- Intimidating, hostile, degrading, humiliating or offensive behaviour which has the purpose or effect of violating a person's dignity or creating an intimidating environment.
- Unwanted conduct related to a protected characteristic that has the purpose or effect of violating a person's dignity. The unwanted conduct can be physical, verbal, or non-verbal.
- Unacceptable behaviour of a sexual nature such as sexual harassment, invitations, comments, coercion and promised advancement in exchange for sexual access.

If you experience any of these behaviours, you can report it and/or access support. You can request to be contacted by an advisor or you can report anonymously. With either options you can give as much or as little detail as you wish. The reports are strictly confidential and only shared on a need to know basis.

Students can request to speak to all the following advisors:

- Dignity Advisor
- Crime Prevention and Personal Safety Advisor
- Human Resources Business Manager (if it's about a member of staff)
- Student Mediator
- Student Support and Wellbeing

UCL will do its utmost to support anyone who has been, or is being, affected by sexual violence and/or domestic abuse. If a student would like to talk to somebody at UCL, the Student Support and Wellbeing Team can offer advice on the support available both internally and externally.

Further information:

- Report + Support
- UCL Policies on Conduct and Harassment and Bullying
- Dignity at UCL
- Student Mediator
- <u>Students' Union UCL Advice Service</u>
- <u>Active Bystander Programme</u>

STUDENT REPRESENTATION

Students' Union UCL

Students' Union UCL helps you to do more at UCL, experience something you've always dreamt of, turn a curiosity into a new passion and help you reach your potential. The Union cares about the things you care about, it's made up of all kinds of people from all kinds of places and it's there to fight for you when you need someone in your corner.

The Union is the representative body of all UCL students. It's run by students for students and is a registered charity, independent of UCL. All UCL students at every level are automatically members of the Union (but can opt out), and student leaders are elected annually by and from all current students. The elected student leaders who work full time for you are called Sabbatical Officers and they represent students on various UCL committees and influence decisions that matter to students. Alongside the Sabbatical Officers there are more than 2000 other student representatives, who cover every part of UCL life, from your programme, research studies, department, faculty or the UCL accommodation you live in.

Further information:

- Students' Union UCL website
- Make a change

Student clubs and societies

At Students' Union UCL, there are over 320 different student-led clubs and societies for you to get involved in. Maybe you are interested in sports with our TeamUCL clubs or low commitment exercise with our Project Active scheme? Perhaps you are keen to perform onstage in the Bloomsbury Theatre or you want to learn about and celebrate different cultures? With such a diverse offering available there is bound to be something that sparks your interest! Clubs and Societies are a great way to develop your skills and find a community at UCL. The Welcome Fair in early October is the perfect chance to meet them all in one place and learn more about what they have on offer!

Further information:

- <u>Students' Union Clubs & Societies</u>
- <u>Club and Society Events</u>

Departmental student society

Students registered for any of the degree programmes listed at the top of page 2 are eligible for membership of the student-run Statistics Society, which organises social and other activities.

Academic Representatives

Your Students' Union is there to make sure you have the best possible time while you're studying at UCL. One of the ways they do that is by working with departments and faculties to ensure that every student is represented and has a voice in the way that the university works.

Every student at UCL will have a Course Representative or a Research Student Representative who will be your eyes, ears, and voice. They'll work closely with staff in your department to make sure that they understand what you most value, and take action to deal with things you'd like to see improve. They'll also work with your Lead Department Representative as well as your Faculty Representatives and the Students' Union to make things better across the whole of UCL.

These Academic Representatives are appointed during early October – if you'd like to take up the role, staff in your department can tell you how. If you take up a representative role, the Students' Union will work closely with you to provide training, support, and advice, and you'll be able to change the experience of everyone on your programme or in your department for the better.

Even if you don't fancy taking up a role yourself, keep an eye out for your chance to vote for which students you feel will do the best job.

Further information:

- <u>Academic Representatives</u>
- Find your representative

Staff-Student Consultative Committee

Every department at UCL has a Staff-Student Consultative Committee (SSCC) that meets at least three times a year. Staff Student Consultative Committees are meetings where Academic Reps and staff work together to develop solutions to students' concerns, and prioritise areas for improvement. SSCCs are co-chaired by your Lead Department Representative. Some departments have a single SSCC, while others split this into different levels of study. Most commonly, departments operate both an undergraduate and postgraduate SSCC.

It is possible in principle for every interested student to attend the committee meetings (subject to space restrictions). The minutes of previous meetings are available on the DOSSSH Moodle page for students to consult.

Departmental Teaching Committee

This committee oversees the organisation and structure of the degree programmes and modules offered by the Department. It also considers teaching matters arising from meetings of the Staff-Student Consultative Committee. Student representatives (including at least one from each undergraduate year group) are invited to Departmental Teaching Committee meetings.

Students' Union Advice Service

The Students' Union Advice Service is available to all current UCL students, as well as those who have interrupted their studies or recently completed their programme. Trained and experienced staff are ready to support you with any difficulties that might occur during your time at UCL. The Advice Service specialises in:

- Academic issues including extenuating circumstances, plagiarism and complaints
- Housing concerns including contract checks and housemate disputes
- Money and debt advice including budgeting and income maximisation
- Employment including unpaid wages and part time employment contracts
- The team can also offer help and support with many other legal and university matters

The service is free, independent, impartial and confidential. No information shared with the service is shared with your department or any other university staff unless you request it or give your permission. Students can make an appointment or attend a drop-in session for advice and support.

Further information:

<u>Students' Union Advice Service</u>

Student complaints

UCL aims to ensure that every student is satisfied with their experience of UCL. However we recognise that from time to time problems do arise and students may wish to express concern or dissatisfaction with aspects of UCL or the quality of services provided.

Informal resolution

Many complaints can be resolved at an informal or local level without needing to submit a formal complaint. Students can speak to their Personal Tutor, Programme Leader, Departmental or Faculty Tutor or Academic Representative if they have any concerns about their programme. They can also speak to the UCL Student Mediator or the Students' Union Advice Service. UCL strongly encourages this kind of resolution and does expect students to have attempted some form of informal resolution before making a formal complaint.

Formal complaints

If an issue cannot be resolved at a local level, students may feel they need to submit a formal complaint using UCL's Student Complaints Procedure. UCL aims to ensure that all complaints are treated fairly, impartially, effectively and in a timely manner, without fear of victimisation. The Complaints Procedure applies across all schools, faculties, academic departments and professional service divisions. Students' attention should be drawn to the timescales set out in the Procedure.

Further information:

- UCL Student Complaints Procedure
- UCL Academic Appeals Procedure
- UCL Student Mediator

STUDENT FEEDBACK

UCL's goal is to put students' feedback, insights and contributions at the heart of decisionmaking. We value students' feedback and work with students as partners in the process of shaping education at UCL. In recent years, as a direct result of student feedback, we have opened the Library over the Christmas closure period and increased study space – including 1000 in the 24 hour new Student Centre, we've focussed more on environmental sustainability and given clearer information about exams and assessments.

The Department is very interested in how students feel about studying Statistics at UCL and how well we are doing according to the students' point of view. There are a number of ways in which students can give feedback to the Department, some of which are detailed below. Students are also encouraged to give individual feedback to their Personal Tutor (regarding general issues) and to the module lecturers (regarding specific modules). The Department will try its best to take students' opinions into account wherever possible.

Student surveys

One of the principal ways in which UCL gathers and responds to student feedback is via online student experience surveys such as the National Student Survey, annual programme evaluations and the New to UCL survey. Whether it's about teaching, accommodation, or facilities, surveys are a chance for students to have their say about what works and what needs improving, to help us make sure that UCL is delivering an excellent education for

current and future students. Each survey takes just a few minutes to complete, all responses are anonymous, and some include a generous prize draw. Every piece of feedback is read and the results of each survey are shared with staff across UCL – including President & Provost Dr Michael Spence.

Further information:

You Shape UCL

Module dialogue

Throughout all modules students will be asked to answer short pulse survey questions, on a regular basis. These pulse surveys are important because it helps teaching staff 'check-in' with students, making sure that they can understand and access key aspects such as the content of the module, assessment information and learning resources. This provides an opportunity for students to reflect on their learning and also give constructive feedback by engaging in a dialogue with staff about the results. Helpful comments and ideas from students mean that changes and improvements can be made to the module before it ends, as well as shaping the module for future students.

UCL ChangeMakers

UCL ChangeMakers helps students and staff work in partnership to make education better at UCL. Students and staff can apply for funding to collaborate on a project focused on enhancing education and students' experience at UCL. Projects address issues that are important to students, often uncovered through student survey data, discussed at SSCCs, raised through Unitu or as the result of ideas from students and/or staff. There are two application deadlines a year, in Terms 1 and 2. Projects are open to all students: undergraduate, postgraduate taught and postgraduate research (MRes).

Further information:

UCL ChangeMakers

Student Quality Reviewers

Student Quality Reviewers, where UCL students take an in-depth look at different areas of education and provide detailed feedback and analysis from a student perspective. Through the Student Quality Reviewer scheme, students can:

- Act as a member of an Internal Quality Review panel;
- Take on a role to review new programmes or support enhancements to assessments through the Programme or Assessment Design Student Partner roles;
- Work with staff to reflect on their teaching practice through the ChangeMakers Teaching Dialogue scheme;
- Provide a student view on how teaching can include more diverse perspectives as a Student Curriculum Partner.

Students are paid a stipend of £300 for around 25 hours work.

Further information:

Student Quality Reviewers

EMPLOYABILITY AND CAREERS

Careers information

Within the Department, there is a careers section included as part of the DOSSSH Moodle page. Job advertisements and information about careers talks, fairs and courses are posted there. There are special careers talks arranged by the Careers Tutor for students from each year, including first years.

You may approach members of the academic and teaching staff for a job reference. However, please note that staff cannot supply a reference without your written permission (see page 11). If you require a reference, therefore, you should fill in a form, available from the DOSSSH Moodle page (see page 10). This form also contains space for you to provide other relevant information (for example, a description of the position / course you are applying for, and a brief CV). This kind of information will enable staff to write constructive references for you.

UCL Careers

UCL Careers provides a wide variety of careers information, one-to-one guidance and events for UCL students and recent graduates. UCL Careers assists them through the entire job hunting process, including exploring options, searching for vacancies, preparing CVs and applications, practicing for interviews, aptitude tests or assessment centres, and providing access to recruitment fairs and other employment-related events. They can also advise on exploring options for further study and funding. Services and events are available to all taught students, researchers (PhD students and postdocs) and graduates (for up to three years after course completion).

UCL Careers also supports employability activities within departments such as work-related learning and internships. UCL students are helped with applications and sourcing opportunities with web resources and advice. They can book appointments and search for internship and graduate job vacancies via myUCLCareers.

Further information:

- UCL Careers
- myUCLCareers
- Sourcing and making the most of internships

Professional accreditation

Royal Statistical Society (RSS)

The <u>Royal Statistical Society</u> (RSS) accredits taught degree programmes on the basis of information supplied by the awarding institution. RSS accreditation provides reassurance that a programme produces graduates with the technical skills and subject knowledge required of a statistician.

The Data Science, Statistics, SEF*, SEL*, Econ/Stats*, MSci International* and MASS programmes have been accredited by the RSS. The current period of accreditation covers students who first enrol between September 2017 and September 2023. All students on an accredited programme will be eligible for <u>e-Student membership of the RSS</u>, with the potential to progress along the professional pathway of RSS membership to <u>Graduate</u> <u>Statistician</u> and <u>Chartered Statistician</u> status. The programmes marked * are accredited on a conditional basis. Graduates from these programmes who wish to apply for Graduate

Statistician status with the Society must submit a transcript to show that a satisfactory combination of modules has been taken. A table listing the conditions is provided below.

| Conditionally Accredited Programme | Condition(s) |
|---|--|
| BSc Statistics, Economics and Finance | At least 60 credits of statistics modules must be taken in each of years 2 and 3 |
| BSc Statistics, Economics and a Language | At least 60 credits of statistics modules must be taken in each of years 2 and 3 |
| BSc (Econ) Economics and Statistics | At least 75 credits of statistics modules must be taken in year 3 |
| MSci Statistical Science (International Programme) | If following the SEF or SEL pathway, at least 60 credits of statistics modules must be taken in year 2 |

Industrial placement schemes

The Department is sometimes contacted by companies (e.g. actuarial, pharmaceutical) that are offering work placement schemes. These are normally taken at the end of the second year of a degree programme. Following the placement, undergraduate students return to complete the final year of their studies. Details of the arrangements for the current year will be emailed to all students when available.

These schemes are open to all students in principle, although Tier 4 students will need to check that their visa allows them to participate and subsequently to complete their studies, since for visa purposes a work placement is likely to be regarded by the UKBA as "full-time employment" rather than "full-time education". Any student who is potentially interested in one of these schemes should discuss it further with the Departmental Tutor.

Entrepreneurship at UCL

UCL has a long and successful track record of supporting spin-outs and start-ups developed by its academic and student communities. Many of the student and staff entrepreneurs have won external awards and achieved substantial investment allowing their enterprises to grow and reach their full potential. UCL offers a wide range of support to students ranging from training programmes, advice on whether an idea has commercial potential, one-to-one sessions with business advisers, funding, competitions and incubator space to help them start or grow their business.

Further information:

UCL Innovation & Enterprise

SPORT AND PHYSICAL ACTIVITY

TeamUCL

With 75 Sports Clubs and our very own TeamUCL Sports Leagues, we operate one of the largest university sport programmes in the UK. There are opportunities to learn sports as a beginner, compete for TeamUCL at a national level in British Universities and Colleges Sport (BUCS), or join a department or society team to play against other UCL students in the TeamUCL leagues. UCL has a commitment to support dual-career athletes throughout their studies. If you are a national or international level athlete, find out more about the <u>TeamUCL</u> <u>Elite Athlete Support Programme</u>.

Further information:

Welcome to TeamUCL

Project Active

Project Active offers low cost, beginner friendly physical activity for all UCL staff and students including weekly classes, social sport and one-off events.

Further information:

Project Active

Bloomsbury Fitness

Bloomsbury Fitness is a gym that gives back. As part of your Students' Union, we offer a quality service while keeping prices low and channelling profits back into student activities. Our campus gym is located at 15 Gordon Street, WC1H.

Further information:

Bloomsbury Fitness

VOLUNTEERING SERVICES

The Volunteering Service at Students' Union UCL exists to connect UCL students with London's Voluntary and Community Sector, primarily through volunteering. It's one of the largest volunteering teams in UK Higher Education, meaning that UCL students have access to opportunities that their peers in other universities often do not.

The Service runs three main programmes:

- **Partnerships:** linking students with volunteering opportunities within their network of around 350 community partners.
- **Student-led Projects:** supporting students to set up and run their own community projects.
- **Community Research Initiative:** connecting master's students with community organisations for collaborative research and Knowledge Exchange projects that form their dissertations.

Through community volunteering, students develop new skills and learn how to enact change in the wider world. UCL Student volunteers also report positive benefits on their academic study and well-being.

The Volunteering Service's opportunities can be found on its online directory, where students can search for roles related to their academic studies, by skills developed or by cause. There are plenty of one-off and flexible vacancies that students can fit around their studies and other commitments.

Further Information

Volunteering Services

HEALTH, SAFETY AND SECURITY

Health, safety and security at UCL

UCL's overall objective is to provide and maintain a safe and healthy environment for staff, students, people who work with UCL and those who visit. Health and safety is an integral part of the way in which UCL's activities are managed and conducted.

There are three departments that work together to provide a comprehensive system to provide the safe and healthy environment:

- UCL Security, who cover everything from ID cards and access to our buildings to lost property and keeping people safe who work out of hours;
- UCL Safety Services, who manage the safety management system including providing advice for risk assessments to training people to work with radioactive samples;
- UCL Estates who ensure the buildings and sites are safe, including managing contractors, building works and access to equipment such as defibrillators.

In an emergency: please call **020 7679 2222** or **UCL extension 222** from any UCL phone, before ringing 999. This allows the security team to direct the emergency services to the correct location. If you are off the Bloomsbury campus call **999** and request the appropriate service (police, ambulance or fire brigade).

Safezone App

SafeZone is an app available to all UCL students and staff to make it easier for you to contact UCL Security directly from your mobile device. Landlines at UCL can still contact security by dialling '222'.

Further information:

- <u>Accidents and Emergencies</u>
- Emergency contacts
- Staying safe
- Safety Services
- Fire Safety
- Security at UCL
- Safety on and off campus
- SafeZone App

AFTER STUDY

Degree certificates and transcripts

A degree certificate will be sent to each successful student awarded a UCL degree within three months of conferral of the award. A copy of your official transcript, detailing examinations taken and results achieved, is issued automatically to all graduating students and sent to their home addresses as held on Portico within 3 months from the date the award is conferred by UCL authorities.

Transcripts for affiliate students are issued automatically upon the students' completion of their study at UCL and are dispatched as follows:

• Junior Year Abroad (JYA), Exchange and Erasmus Students – transcripts are issued to the students' home universities.

Independent affiliate students – transcripts are posted to the students' contact addresses.

UCL Student Records can produce additional transcripts for students on taught programmes as well as for affiliate students via the e-transcript service.

Further information:

- **Degree Certificates**
- **Transcripts**

Higher Education Achievement Report (HEAR)

The Higher Education Achievement Report (HEAR) is an electronic transcript of a student's verified academic results and approved non-academic achievements whilst at UCL. Students who commenced their studies in or after September 2011 will have a HEAR made available to them online, via our HEAR provider, Gradintel, each summer - new students will be invited to register for this facility during their first year of study and throughout their students. Students can share their HEAR, free of charge, as a secure electronic token with third parties via their registered Gradintel account. Further information:

The Higher Education Achievement Report (HEAR)

Graduation ceremonies

Following successful completion of their studies, graduation ceremonies are held to celebrate students' achievements.

Please note that information on UCL Graduation Ceremonies may be subject to change due to Covid-19 - please check with the Graduation Ceremonies website below for current information.

Further information:

Graduation Ceremonies

UCL alumni community

As UCL alumni, you join a global community of over 350,000 former students. All UCL alumni can take advantage of a huge range of exclusive benefits and support, including access to thousands of e-journals, use of the library, a UCL-branded email for life and UCL Careers services for up to three years. Stay connected through reunions, international networks, and interest-based groups. UCL students and alumni can also take advantage of UCL's lifelong learning opportunities through UCL Connect, our professional development programme of panel events, workshops, and resources such as blogs, case studies and podcasts.

Further information:

UCL Alumni