



UNIVERSITY OF  
CAMBRIDGE

# MPhil Handbook 2017/2018

Department of Land Economy

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## Welcome from the Head of Department

I would like to take this opportunity of offering you a warm welcome to the Department of Land Economy and to the University. We hope that you will have a stimulating, enjoyable and productive time in Cambridge.

This Handbook contains details of the administrative arrangements in the Department for MPhil students, including information on the many and various options you may take. Do make full use of it as a guide throughout the year, especially as the choices available to you will need careful planning. The Handbook is published on the Departmental Intranet only (<https://www.landecon.cam.ac.uk/current-staff-student-intranet>). This internal website, accessible by Raven password, provides further information on a range of issues. In addition to the Handbook, it carries details of the current lecture timetables, the programme of seminars and various administrative arrangements and forms. The material in this Handbook is up to date at the time of publication, but details may change during the year, so it is advisable to check on a regular basis.

It is important that you check your Cambridge email on a regular basis as this is how the Department and University will contact you. You are expected to use the @cam.ac.uk email address with which you are provided. You must respond to messages in this account when asked as they will contain important information about your course. The University does not regard failure to check this account as a valid excuse for missed deadlines.

You must keep in regular contact with your appointed supervisor(s) and module leaders who as well as providing supervision for your research and coursework, will be able to guide you through the various administrative steps you will need to take from time to time. In addition, the Degree Committee of the Department oversees all graduate courses and provides a further source of information and guidance. Dr Franz Fuerst is the Director of the Graduate Programme, and acts on behalf of the Degree Committee. Mr Hugo Hocknell is the Graduate Co-ordinator and he will be in contact with you regularly. Further details on roles and responsibilities can be found later in this Handbook.

As you know, Cambridge is a world leader in social science teaching and research and we expect you to play your part in that intellectual effort. The Department also offers a varied programme of academic, networking and social events; I hope you will fully participate in these which will enhance your experience on the programme. Moreover, Cambridge is a vibrant city with much to offer outside your subject area. We hope that you seize the opportunities that the University offers you academically, intellectually and socially. With best wishes for your success on the course.

Professor Colin Lizieri  
Head of Department

## Who is who in the Department

### Departmental officers

Head of Department	Professor Colin Lizieri ( <a href="mailto:cml49@cam.ac.uk">cml49@cam.ac.uk</a> )
Chair of the Board of Land Economy	Lord Chris Smith
Director of Teaching	Professor Martin Dixon ( <a href="mailto:mjd1001@cam.ac.uk">mjd1001@cam.ac.uk</a> )
Director of Research	Professor Andreas Kontoleon ( <a href="mailto:ak219@cam.ac.uk">ak219@cam.ac.uk</a> )
Chair of the Degree Committee	Professor Ian Hodge ( <a href="mailto:idh3@cam.ac.uk">idh3@cam.ac.uk</a> )
Director of the Graduate Programme, and Secretary to the Degree Committee	Dr Franz Fuerst ( <a href="mailto:ff274@cam.ac.uk">ff274@cam.ac.uk</a> )
Deputy Secretary to the Degree Committee	Dr Emma Lees ( <a href="mailto:el348@cam.ac.uk">el348@cam.ac.uk</a> )
Chair of MPhil Examiners	Professor Pete Tyler
Director of the MPhil in Real Estate Finance	Dr Franz Fuerst ( <a href="mailto:ff274@cam.ac.uk">ff274@cam.ac.uk</a> )
Director of the MPhil in Environmental Policy	Dr Shaun Larcom ( <a href="mailto:stl25@cam.ac.uk">stl25@cam.ac.uk</a> )
Director of the MPhil in Planning, Growth and Regeneration	Dr Elisabete Silva ( <a href="mailto:es424@cam.ac.uk">es424@cam.ac.uk</a> )
Director of the MPhil in Land Economy Research	Dr Nicky Morrison ( <a href="mailto:nm10001@cam.ac.uk">nm10001@cam.ac.uk</a> )
Director of the MPhil in Land Economy by Thesis	

### Departmental administration

Administrative Officer & Secretary to the Board of Land Economy	Miss Samantha Coulson ( <a href="mailto:slc74@cam.ac.uk">slc74@cam.ac.uk</a> )
Finance Administrator and Secretary to the Administrative Officer	Mrs Laura Cave ( <a href="mailto:lew24@cam.ac.uk">lew24@cam.ac.uk</a> )
Graduate Co-ordinator	Mr Hugo Hocknell ( <a href="mailto:hrsh2@cam.ac.uk">hrsh2@cam.ac.uk</a> )
Graduate Office Assistant	Miss Chloe Aust ( <a href="mailto:ca328@cam.ac.uk">ca328@cam.ac.uk</a> )
Mentoring Scheme and Employment, Coordinator Administrator for Real Estate Finance	Mrs Gordana Adamceska-Halson ( <a href="mailto:ga234@cam.ac.uk">ga234@cam.ac.uk</a> ) (on maternity from Lent Term 2018) Sue Tilney covering ( <a href="mailto:lerefadm@hermes.cam.ac.uk">lerefadm@hermes.cam.ac.uk</a> )
Visiting Scholar Administrator and Departmental Environment and Energy Coordinator	Ms Elyssa Rider <a href="mailto:emr46@cam.ac.uk">emr46@cam.ac.uk</a>
Undergraduate Administrator and Secretary to the Head of Department	Ms Ingrid Cizaite ( <a href="mailto:landecon-tripos@lists.cam.ac.uk">landecon-tripos@lists.cam.ac.uk</a> )
Receptionists	<a href="mailto:landecon-reception@lists.cam.ac.uk">landecon-reception@lists.cam.ac.uk</a> Mon-Tues Mrs Liz McDonald Wed-Fri Mrs Jane Scott

## Calendar highlights

### 2017

Monday 2 October	MPhil Induction meeting
Tuesday 3 October	Full Michaelmas Term commences
Wednesday 4 October	SSRMC Induction
Thursday 5 October	Lectures begin
Monday 9 October	Social event for Postgraduates and Staff, University Centre 6pm-9pm
Friday 20 October	Deadline for submission of <u>provisional</u> module choices, by 12 noon
Thursday 2 November	Career event organised by CULS, Guildhall, Cambridge 4pm
Thursday 2 November	Deadline for submission of dissertation titles and topic summary*, by 12 noon
Thursday 2 November	Deadline for <u>final changes</u> to Michaelmas Term module choices, by 12 noon
Friday 17 November	Election of Student representatives (TBC)
Wednesday 29 November	Lectures end
Friday 1 December	Full Michaelmas Term ends

### 2018

Tuesday 16 January	Full Lent Term begins
Thursday 18 January	Lectures begin
Friday 19 January	Social Event for Postgraduates and Staff, St Catherine's 6pm-9pm
Friday 19 January	Deadline for <u>final changes</u> to Lent module choices, by 12 noon
Monday 29 January	Deadline for submission of <u>final</u> LE by thesis titles and proposals, by 12 noon
Monday 29 January	Deadline for submission of dissertation outlines and titles*, by 12 noon
Wednesday 14 March	Lectures end
Friday 16 March	Full Lent Term ends
9-20 April	Examinations (a timetable will be circulated towards the end of Lent term)
Tuesday 24 April	Full Easter Term begins
Friday 27 April	Deadline for submitting <u>final dissertation titles and proposals**</u> , by 12 noon
Friday 8 June	Deadline for submitting LE by thesis summary/abstract, by 12 noon
Friday 15 June	Full Easter Term ends
Monday 16 July	Deadline for submission of dissertations, by 4pm**
Thursday 9 August	Deadline for submission of LE by thesis theses, 4pm
Wednesday 12 September	MPhil vivas (date and times will be confirmed with candidates involved)
September	MPhil vivas for 'by thesis' candidates (dates will be confirmed)

(\*Does not apply to Land Economy by thesis or Land Economy Research candidates)

(\*\*Does not apply to Land Economy by thesis candidates)

## General housekeeping information

### Departmental accommodation

The Department's main accommodation comprises six buildings in a terrace in Silver Street. Each has a basement and two storeys above the ground floor. The principal entrance is at 19 Silver Street, which is where the Reception Office and staff pigeon holes are located. There is access between the houses via the first floor corridor and numbers 16, 17, 18 and 19 Silver Street are also linked at basement level. There is a connecting door from House 21 Silver Street into 17 Mill Lane where the Department's, coffee room and 4CMR offices are located.

Many staff have a room in the main buildings where they meet students but most teaching occurs in nearby premises specifically designed for that purpose. Lectures are generally given in the Mill Lane Lecture Rooms. Small group supervisions are usually undertaken in staff rooms. There are also three seminar rooms on the ground floor of a building in Laundress Lane. Access to these rooms is limited. The external deadlock will be open during office hours, the external Yale lock will be unlocked by lecturers when the rooms are required and there is an access key code for the internal door. Please speak to your lecturer prior to your supervision/lecture if you are unsure how you will get in.

The Department's computing facilities are located in the basement of houses 16 to 19. Access to specialist software and the University Network is via these computers.

### Office hours

Normal office hours in the Department during term time are:

Monday to Thursday	8.30am - 5.00pm
Friday	8.30am - 4.00pm

During the summer break reception may be closed and the front door locked between:  
10.30 - 11.00am and 1.00 - 2.00pm each day.

Please note the Graduate Office is only open for drop-in enquiries as follows:

Monday to Friday	8.30am - 10.30am and 11.00am - 1.00pm
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Students who require assistance but are unable to visit the office at these times should email the relevant member of staff in advance to make an appointment.

### Outside office hours and security

The Department allows postgraduate students to have access to the buildings outside office hours. However, we are becoming increasingly concerned about the security problems of the building. There is no custodian, so anyone in the building outside office hours is responsible for ensuring that all lights and heaters are turned off and doors locked. The front doors should be locked at all times outside office hours, even if you are in the building. Failure to observe this simple precaution not only endangers your personal safety and that of others, but also leaves the buildings vulnerable to theft. Valuable property has been taken from the buildings in the past. The University carries no insurance for personal possessions and neither the University nor the Department accepts any responsibility for personal property on its premises. Please ensure therefore that you have insurance cover yourself and take every precaution to protect your property.

A security system is installed for the basement computer rooms and is now linked directly to the University Security Centre.

### Keys

The Department's front door is generally not locked during office hours. Please note that during summer breaks the front door may be closed between 10.30 - 11.00am and 1.00 - 2.00pm. Access to the Department out of hours is enabled by using University ID cards.

All students should have been issued with a University ID card by their College. **Once received it must be activated in the Department.** To activate your card, please ask at the reception.

Students must be carrying their University cards with them all the time. If you lose your card, please report its loss at the reception immediately, but note that replacements for lost cards should be ordered through your College.

### Fire protection and safety

We take safety very seriously. There is a fire detection and alarm system and fire doors throughout the building. Please make sure that you find out where the exits are in case of fire. There are instructions posted on all landings and corridors in the building. In case of fire there will be a long continuous ringing of the fire alarm. You should make your way quickly out of the building by the nearest exit, closing doors behind you. Assemble in the car park at the rear of the Department offices, through the archway between Houses 19 and 20 Silver Street.

In case of an accident in the Department, please report to the Reception office - either personally or, if incapacitated ask someone else to contact Reception for you. The internal telephone number of Reception is **37147**. Outside working hours ring University Security Control **31818**. They have First Aid and will attend to you. The Emergency Services number for Police, Fire or Ambulance is **999**.

A First Aid Box is situated in the open plan reception area in House 19. A copy of the Department's safety policy is available in Reception and on the Department's Intranet. It is important that you are aware of its contents. Please draw to the attention of the Administrative Officer any matters relating to safety in the building which cause your concern.

### Postal Services

The University operates an internal postal delivery service for distribution within the University, including the Colleges. Please mark all envelopes "UMS". Collection and delivery is twice a day from Reception at 11am.

External, pre-stamped post may be left in Reception, in the appropriate tray, for collection by the Royal Mail at 2.50pm Monday to Friday.

Internal mail communications to you from the Department will be sent to your College and you should arrange to have all your personal post delivered to you there as well. More usually communications from the Department will be sent via email and you should check your Cambridge email account on a regular basis.



## The Land Economy Library

The Land Economy Library is situated in the Social & Political Science (SPS) Library, Free School Lane, CB2 3RQ.

All MPhil students will be invited to attend a library induction at the beginning of Michaelmas Term. This will include all the information required to make effective use of library resources in Cambridge. Please refer to the website as it is a comprehensive resource for locating materials and provides all information on the Library - <http://www.spslibrary.hsps.cam.ac.uk>.

### Other useful web addresses include

University Library - <http://www.lib.cam.ac.uk/>

Moodle - <https://www.vle.cam.ac.uk/login/index.php>

Librarysearch - <http://search.lib.cam.ac.uk/>

Eresources and ejournals - <http://libguides.cam.ac.uk/eresources>

The Library holds previous Land Economy dissertations which can be requested at the desk and used for reference purposes.

Please speak to the Library staff if you require help or email us at [sps-library@hsps.cam.ac.uk](mailto:sps-library@hsps.cam.ac.uk).

## Computing in the Department

### Induction sessions

The IT Staff will provide introduction sessions to the Department's IT facilities for new students during the first few weeks of Michaelmas term.

### University and the Internet

#### Wireless

Wireless facilities, **UniofCam** and **Eduroam**, are available within the Dept of Land Economy and throughout the University - you require a RAVEN password to gain access to **UniofCam** and a 16-digit code for **Eduroam**.

In addition, printing is now available via wireless, you will need to buy print credit, see: <http://www.ucs.cam.ac.uk/desktop-services/ds-print/individual>.

#### Network (Cable connections)

The Department's network is connected to the Cambridge University Data Network (CUDN). This allows the Managed Cluster System (**MCS**) access to the local INTRANET and the worldwide INTERNET.

#### Use of the Internet and Intranet

Use of the University Computing Network is subject to Rules and a Code of Practice and it is your responsibility to ensure that you abide by them.

There are now some extremely valuable data sources available on the Internet, this **Handbook** includes some Internet addresses which you should acquaint yourself with. The Department has its own website (<http://www.landecon.cam.ac.uk>).

Feedback on any aspect of the Land Economy website is welcome.

In addition the Department also has a dedicated **INTRANET** facility, which is accessible to all staff and students. The intranet provides online access to information about Departmental

administration, teaching materials for particular papers and course timetables, as well as examination and dissertation guidance. The intranet is accessible from the department's homepage and is **RAVEN** password protected. To access the intranet go to the website and select *Current Staff & Students* from the main menu.

On the Land Economy INTRANET site there is a IT page with the latest IT information – <https://www.landecon.cam.ac.uk/current-staff-student-intranet/land-economy-computing>.

### **MCS Workstations - student use**

The Department has TWO annexes with MCS workstations for use by students (a separate room is available for PhD students ONLY). One workstation also has an A4 scanner. The MCS Workstations are currently available in DUAL BOOT: Current Windows System or LINUX ODS. A laser printer, which will give Mono or Colour prints, is also located in this area.

### **Access to this area is via House 19 and down to the basement.**

ALL MCS workstations have the same access to the internet, there is network colour printer, allowing you to print from any Land Economy MCS workstation, providing you have print credit (see below).

The Department does not have the capacity to provide separate MCS workstations for all students but you should be able to satisfy your requirements between the computers in your College and the Department.

There are MCS facilities available at other locations.

Further: The Land Economy Library is located in the Social & Political Science (SPS) Library on the New Museum Site – The SPS Library has MCS workstations and print facilities.

**NOTE: MCS Workstations at other locations may not have some of the software applications used within Land Economy.**

### **Email**

All students are issued with a University ID which is also an email address. Lecturers and supervisors will communicate with you through the Cambridge email system, HERMES. You may also, by agreement with your supervisor, submit supervision essays by email and you can expect notices about lectures and supervisions to be sent to you by this method.

It is in your best interests to check your EMAIL inbox on a daily basis and clearing old unwanted mail to stop your mail box from becoming full and no longer able to accept new mail (bouncing). Please be aware of the legal implications of email usage. You must not send messages that are defamatory, abusive or sexually explicit. Any abuse will result in withdrawal of the facility, and may attract criminal and/or civil proceedings.

### **Safe Guarding your files!**

**YOU** are responsible for your own files. Please back up regularly. Loss of data is not regarded as a valid reason for late submission of any work.

The MCS system allows storage of YOUR data up to 3.5Gb – Note – You can access your data from outside the University - **DS-Files**

The workstations are equipped with DVD/CDRW and USB ports for Flash Drives. Blank DVD's or CD's or USB Flash Drives/pens and external hard drives can be purchased from a number of outlets in town or online.

### **Printing**

Costs for printing on the MCS are as follows:

Mono - 5p per side

Colour - 25p per side

All students will receive the following credit at the start of each **academic year**:

£5 printing allocation

Unused credit does not roll over to the following year. Additional print credit may be purchased as necessary using the new MCS eCredit system: <http://www.cam.ac.uk/cs/desktop-services/ds-print/payment.html>. To check your eCredit balance on a MCS Workstation, go to the Start menu and select as follows: Programs > MCS Programs > Utilities > MCS eCredit.

**Virus and Malware....**

A virus or malware could damage or destroy all your data files and much more!

If you are working on your own IT, then you **MUST** have a anti-virus program installed, the University supplies McAfee for all students.

If you find or think you have been infected - contact the IT STAFF **immediately** so we can check and take appropriate action.

**Software**

This is a small sample list of some of the software available on the Department's MCS:

Internet Explorer / Firefox	Internet package
Microsoft	Word Processing, Excel Spreadsheet and PowerPoint Presentation packages
ArcGIS	<b>Mapping &amp; Analysis package</b>
SPSS	Predictive Analytics package
STATA	Integrated Statistical package

Any other software not found on the MCS: please do not hesitate to ask for advice, **but please consult with your supervisor in the first instance.**

**IT enquiries**

**All** IT queries, be it problems or a request for further information, **must** be sent to:

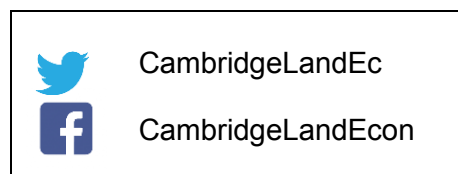
**[landecon-computing@lists.cam.ac.uk](mailto:landecon-computing@lists.cam.ac.uk)**

There are two members of IT staff in the Department who are available to assist with computing inquiries:

**Mr Mark Rogers** is the Department's Computer Officer, his services are shared with other Departments, hence his responsibilities are more at the strategic level than at the operational level, you are asked to contact Mr Paul Mullally in the first instance.

**Mr Paul Mullally** is the Department's IT Technician. He is responsible for the day to day running of the MCS system. He is available to advise / assist with IT queries from students and staff.

**FOOD AND/OR DRINK IS NOT TO BE TAKEN INTO ANY OF THE COMPUTING AREAS**



## The Department of Land Economy within the University

### The University

The organisational arrangements of Cambridge University are not the simplest to comprehend, especially because of the decentralised pattern of the Colleges. The Education Section of the Academic Division monitors quality assurance throughout the University, including consideration of matters arising from External Examiners' reports and Faculty and Departmental Reviews. It is also responsible for considering and approving academic developments relating to course proposals, examination requirements and assessment methods, and the appointment of Examiners and Assessors for most University examinations. The Department of Land Economy is independent of any faculty and is controlled by the Board of Land Economy under the supervision of the Academic Division.

### The Council of the School of Humanities and Social Sciences

For administrative purposes the University is divided into six schools, or groupings of faculties and independent departments. Land Economy is assigned to the School of Humanities and Social Sciences, along with the Faculties of Law, Social and Political Sciences, Archaeology and Anthropology, History, Economics, Education and the Departments of History and Philosophy of Science. Each of these units has a representative on the Council which meets twice each term. The Council maintains a strategic role in relation to policy and funding issues.

### The Board of Land Economy

The Board of Land Economy has formal responsibility for oversight of the Department's operations, along with other matters referred to it from time to time by the General Board of the University and for nominations or appointments to posts such as examinerships. The Board has student representation on it (see *Student Participation in the Department*).

### Departmental administration

The Head of Department is responsible for the administration and academic direction of the Department and is accountable to the central bodies of the University for the quality of its teaching, its administration, its finances and its research. Teaching and research quality is also independently assessed by the Government's Higher Education and Funding Council for England (HEFCE).

The Department has several internal committees which meet regularly through the year and there are regular staff meetings. There are also meetings of the four Research Centres: Cambridge Centre for Housing and Planning Research (CCHPR), Cambridge Centre for Climate Change Mitigation Research (4CMR), Cambridge Centre for Economic and Public Policy (CCEPP) and the Rural Business Unit (RBU).

### The Degree Committee

The Degree Committee has oversight of all postgraduate study in the Department. It has no role in relation to undergraduate students. The Committee meets throughout the academic year to consider matters relating to graduate students, to include the appointment of examiners, examination and registration reports/results. The Degree Committee has responsibility for approving MPhil degrees on behalf of the Board of Graduate Studies.

## Student participation in the Department

### Student elections

The Department holds elections for Student Representatives during the Michaelmas Term, in accordance with Cambridge University Student Union arrangements for student elections across the University. In 2017-2018 they will be held on Friday 17 November 2017.

Land Economy Student Representatives attend meetings of the Board of Land Economy and the Teaching and Liaison Committee. Appointment is for one year only, although candidates may stand again in future years. Further details on the procedure for nomination and election of candidates will be circulated to students early in the Michaelmas Term.

### The Board of Land Economy

The Board of Land Economy has formal responsibility for oversight of the Department's operations, along with other matters referred to it from time to time by the General Board of the University and for nominations or appointments to posts such as examinerships. The Board meets twice a term and has student representation on it.

The Board has adopted a scheme of Student Representatives which allows:

- (1) one graduate student elected by all graduate students in the Department;
- (2) one undergraduate student elected by and from Part IA;
- (3) one undergraduate elected by and from Part IB and Part II.

Following the student elections, the Board will co-opt, where possible, an undergraduate student from either Part IB or Part II, depending on which group is not represented by (3) and, a graduate student from either the MPhil or the PhD group, depending on which group is not represented by (1). This ensures that there is a Representative from each year of the Tripos as well as the MPhil and PhD students.

The Board's agenda normally has a separate section of confidential reserved business (such as staffing matters) which is conducted in the absence of the Student Representatives.

### The Student Liaison Committee

Maintaining good channels of communication among students, and between staff and students, is vital to ensuring the smooth running of all the Department's activities. The Department therefore has an active Student Liaison Committee, upon which both undergraduates and postgraduates are represented. All student representatives whether elected or co-opted to the Board of Land Economy are considered *ex officio* members of this Committee. The Committee meets twice per term.

The Student Liaison Committee's business ranges across all matters arising from the operation and work of the Department. It includes teaching arrangements, the library, computing issues, distribution of materials, the social programme, the design of the student questionnaires and health and safety issues.

### **The Land Economy Society**

The Land Economy Society is a society of students and staff in the Department, whose purpose is to further the study of land economy, to publicise the work of the Department and develop informal links with individuals and organisations outside; to provide a forum for visiting lecturers and to promote a social programme in the Department. Information on this year's programme will be circulated to you early in the new term.

The Society's constitution provides for it to be made up of representatives from seven different constituencies, including undergraduate students in the Department. Elections for these positions will be held before the division of Michaelmas Term, and written nominations must be with the Secretary by the end of the first quarter of full term.

### **Student questionnaires**

Every year the Department undertakes a formal survey of student opinion. Tripos students are surveyed at the beginning of each Easter Term. MPhil students are surveyed at the end of each Michaelmas Term and beginning of each Easter Term. PhD students are surveyed once in April. Questionnaires are distributed to all students, seeking their views on the papers that they have taken during the year, together with their views on wider issues affecting the Department.

By the very nature of the online system all questionnaires are completely anonymous. All feedback is treated in a confidential manner and the raw responses are seen only by the Head of Department and his Secretary. The results are then compiled into reports and distributed in the following way:

- the scores of individual teaching quality on each paper are distributed to all those teaching on that paper;
- the written comments on each paper and on the staff who taught on that paper are distributed to all those teaching on that paper;
- responses which relate to the quality of teaching on the Tripos/MPhil as a whole are distributed to all teaching members of the Department;
- responses to the broader questions about the Department are distributed to teaching and administrative staff as appropriate.

Action on the outcome of the questionnaires is a matter for the Head of Department. He reports in general terms to all students at the beginning of the new academic year. He also reports to appropriate committees within the Department. The Head of Department discusses the outcomes with individual lecturers, and takes whatever action is deemed appropriate in light of those discussions. The survey also informs the Head of Department in relation to functions connected with staff appraisal and discretionary payments.

If you are unhappy with **any** aspect of the course, you should not wait for the questionnaire to express your views. Get in touch with your student representative, the co-ordinator of the module concerned, the Director of your MPhil, the Director of the Graduate Programme or ultimately, the Head of Department directly.

## Residence, Fieldwork and Employment

Candidates are advised to read the following information carefully and in conjunction with guidance provided by the Board of Graduate Studies. **Failure to comply with the regulations may result in a candidate being unable to obtain his/her degree.**

### Residence

All MPhil courses offered by the Department are ten months in duration, with the exception of the MPhil in Land Economy by thesis which runs for eleven months. The Department is required to certify to funding bodies, UK immigration, the University, Colleges and others that our students are in full time education for these ten months. Throughout the year we ask candidates to submit work in person. One of the reasons for this is to help monitor residence and candidates are expected to comply with all requests for work to be submitted in person.

University regulations state that all full-time graduate courses at the University require Candidates to be in residence in Cambridge for a minimum period of 3 terms. **All Land Economy MPhil students must therefore keep term and be in residence, in Cambridge for all three terms of their course (Michaelmas, Lent and Easter).** Term dates are given in the *Calendar Highlights*. In order to satisfy the University's residence requirement, you must reside within the University's precincts; that is, within the 10 mile radius of Great St Mary's church, unless you have specific permission to live elsewhere. Whilst full Easter term ends in June, the Department believes it educationally desirable for students to remain in residence until such a time as their dissertation has been submitted at the end of the course (July or August as appropriate). Submission of the hard copy dissertation must be made by the candidate, in person.

### Fieldwork

Regulations do not permit students on one year MPhils to 'work away' from Cambridge for fieldwork, research or data collection purposes and the Degree Committee will therefore not usually consider applications from MPhil students wishing to 'work away'. The final decision on any such application lies with the Board of Graduate Studies. Approval is rare and therefore cannot be guaranteed.

### Employment

Students on one-year courses are not permitted to undertake any type of paid work during their period of study. The period of study for Land Economy MPhils runs until the end of July or August as appropriate, once the final dissertation or thesis has been submitted. Under no circumstances will the need to earn money be accepted as a valid reason for failing to complete a course or an assignment on time. Nor will the Department make special provision for students who find themselves unable to follow normal submission procedures due to interview, work or internship commitments. Students are therefore advised not to make travel, employment or internship commitments, until after the deadline submission date for their dissertation has passed.

## Accreditation and exemptions

### Royal Institution of Chartered Surveyors

The following Land Economy courses are currently accredited by the Royal Institution of Chartered Surveyors (RICS):

- BA Land Economy Tripos
- MPhil in Planning, Growth and Regeneration
- MPhil in Real Estate Finance
- MPhil in Environmental Policy

All graduates of these courses are eligible to enter the Assessment of Professional Competence (APC), successful completion of which entitles full membership of the RICS.

The RICS also offers **free membership to students** whilst they are taking accredited courses. Information about the RICS and the benefits of membership can be found on their website (<http://www.rics.org/uk/>).

### Investment Property Forum

The Investment Property Forum (IPF) is the leading UK property investment organisation for individual members. It comprises an influential network of senior professionals all active in the property investment market.

Graduates from the MPhil in Real Estate Finance are eligible for automatic access to membership in the Investment Property Forum on completion of a membership application form, providing the applicant has the required two years' professional experience. (<http://www.ipf.org.uk/>).



## The Cambridge University Land Society (CULS)



Cambridge University  
Land Society

**The Cambridge University Land Society membership is free to all Land Economy students, and for a year after graduating.** You are strongly encouraged to join the Society which provides an opportunity for students to network with members who actively seek to support you in your chosen career paths. The current Society Secretary is Mrs Ali Young, who can be contacted at [culandsoc@alibrinkley.co.uk](mailto:culandsoc@alibrinkley.co.uk). Please refer all membership enquiries to her.

Students' attendance at meetings and events is welcome and, for most events, is free.

### After Graduation

Contact with the Department does not cease upon the completion of the degree. We like to maintain close and ongoing contact with all our graduates. Being a member of the Cambridge University Land Society (CULS), founded in 1948, facilitates that. The Society operates independently of the Department. Its objectives are:

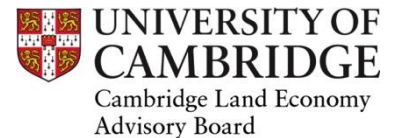
- a) to give an opportunity for Members to meet each other, to make and renew friendships and to foster amongst them a spirit of good fellowship and co-operation;
- b) to act as a link between members from within and outside the Department of Land Economy and to provide opportunities for the exchange of views upon and discussion of matters of interest;
- c) to support such charitable and educational causes as the Committee consider worthy.

Each year the Society holds at least 20 business and social events including briefing series on Commercial, Global Economy, Urban Regeneration, Rural Regeneration and Real Estate Finance. There is a younger group of members within the Society, called the Silver Street Group. This group is open to all those who are within 15 years of graduating, and holds a series of drinks and dinners throughout the year. Many of these members are recent graduates and seek to promote ties with current students of Land Economy providing support and advice if required. Students are encouraged to attend their events.

In conjunction with the University Careers Service, the Society holds an annual 'Careers in Property Fair' in Cambridge for all Land Economy students. This year's fair takes place on 2 November in the Guildhall, Market Square, Cambridge, and a wide range of employers from across the Property spectrum will attend.

Further information on the Society, including a programme of meetings, is available from the Society's website: <https://www.culandsoc.com/>

## Cambridge Land Economy Advisory Board (CLEAB)



The Cambridge Land Economy Advisory Board (CLEAB) was established in early 2012 as a separate institution following ten years of active engagement within the Department as the Real Estate Finance Advisory Board (REAB). The membership of the current Board is comprised of high level executives within the commercial property industry, who provide a central focus to the Department's interaction with this industry. CLEAB works closely with the Cambridge University Land Society. The Board exists to support education and research in Land Economy and helps to organise and support networking events, lectures and seminars in Cambridge and in London, provides mentors for the mentoring scheme, and can assist with careers advice, student placements and dissertations.

Current membership of the Board includes:

Name	Surname	Title	Company
Bartram	Chris		
Blausten	Douglas	Consultant	Cyril Leonard
Bressler	Léon	Partner	Perella Weinberg Partners
Bullock	Hugh	Chairman	Gerald Eve LLP
Clark	Simon		
Dobson	Giles	Partner	Bidwells
Garman	James	Managing Director	Goldman Sachs & Co
Gordon	Helen	Chief Executive	Grainger plc
Grigg	Chris	Chief Executive	The British Land Company
Hawksworth	Ian	Chief Executive	Capital and Counties Properties plc
Hodge	Ian	Professor of Land Economy	University of Cambridge
Houston	Roddy	Deputy Director	Government Property Agency
Jeffrey	Alex	Chief Executive	M&G Real Estate
Kavanagh	Anne	CIO	Patrizia Immobilien AG
Laming	Ian	Chief Operating Officer	Tristan Capital Partners
Lizieri	Colin	Grosvenor Professor of Real Estate Finance, Head of Department	University of Cambridge
Manns	Noel		
Meier	Richard	Partner	Argent (Property Services) LLP
Meijer	Ton	Chairman	Meyer Bergman
Mogull	Marc	Founder and Managing Partner	Benson Elliot Capital Management

Orf	Roger	Head of Europe	Apollo Global Real Estate Advisors
Polisano	Lee	President	PLP Architecture
Preston	Mark	Executive Trustee	Grosvenor Estate
Sketchley	Tim	Director	Old Park Lane Management Ltd
Spies	Michael	Senior Managing Director	Tishman Speyer Properties
Staveley	Charles	Partner	Mills & Reeve LLP
Symes-Thompson	John	Senior Director	CBRE
Tagliaferri	Mark	Managing Partner	GI Partners
Tanghe	Christophe	Senior Principal - Head	Aventicum Capital Management AG
Womack	Ian		
Zehner	Jon	Global Head of Client Capital Group	LaSalle Investment Management

**The Cambridge  
University Real Estate  
Finance and  
Investment Society  
(CUREFIS)**



**CAMBRIDGE UNIVERSITY REAL ESTATE  
FINANCE & INVESTMENT SOCIETY**

In affiliation with the  
Department of Land Economy

The Cambridge University Real Estate Finance and Investment Society (CUREFIS) was founded in January 2012. CUREFIS is a society run for students by students.

The main purpose of CUREFIS is to widen the interest in, and understanding of, the real estate industry and property investment within the University, especially among those students thinking of taking up a career in real estate asset management or banking after graduation. CUREFIS is supported by the Cambridge Real Estate Finance Group, which researches pricing and risks for real estate investments as well as the Cambridge Land Economy Advisory Board (CLEAB) and Cambridge University Land Society (CULS).

CUREFIS is not confined to those taking Land Economy degrees and welcomes students from all disciplines with an interest in property finance and real estate investment. We encourage you to take this chance to get involved in a dynamic student society – the first of its kind in Cambridge - to link influential academics, ambitious students and blue-chip and innovative finance sector employers.

All Departmental students are welcome to become members. For more information please visit: <http://www.curefis.com/> or email [president@curefis.com](mailto:president@curefis.com).

**Cambridge University  
Real Estate Finance  
Asian Alumni Society  
(CUREFASIA)**



**CAMBRIDGE UNIVERSITY  
REAL ESTATE FINANCE ASIAN ALUMNI SOCIETY**

The Cambridge University Real Estate Finance Asian Alumni Society (CUREFASIA) is established to better serve Cambridge alumni who have an interest in Asian real estate markets. Each year, we support the Faculty and alumni by organizing various events, which include annual real estate conferences, field trips, industry networking events and alumni reunion dinners, in major Asian cities (Beijing, Hong Kong, Shanghai, Shenzhen and Singapore) and in London.

The Society has a close relationship with the Department of Land Economy and Real Estate Finance (REF) Group at Cambridge University and we share the same goal which is to integrate theory and practice in real estate finance and investment, and undertakes fundamental research into real estate asset pricing and risk analysis that is relevant to the commercial real estate industry. The Society is registered under the Cambridge University Alumni Office and works closely with other alumni societies in the region.

All Departmental students are welcome to become members. For more information with regards to CUREF Asia please visit the following website: <http://curefasia.com>.

Should you have any enquiries, please feel free to contact us at [realestateasia@cantab.net](mailto:realestateasia@cantab.net)

## **Estates Gazette Interactive (EGi)**

All students have access to the data and information on Estates Gazette Interactive (EGi). EGi provides news feeds for events in European real estate markets and articles on property from the weekly Estates Gazette, with a searchable archive, Estates Gazette law reports, a searchable archive of individual commercial property transactions from the UK, access to the London Office Market database and much more. This is a valuable resource for keeping up to date with trends in the market and a potential source of data for research. You can set up an individual account using your Cambridge email address (see details on the Departmental intranet).

## **Mentoring Arrangements**

All PhD, MPhil and Part 2 Tripos students have the opportunity to be assigned to an industry mentor, a senior executive or professional currently working in the development, real estate and finance industries and the associated professions. The Mentoring Scheme, supported by the Cambridge Land Economy Advisory Board (CLEAB) and by the Cambridge University Land Society (CULS), helps students understand the operation of the property markets, provides a point of contact to others in the industry and allows students to discuss career opportunities, research ideas and professional practice with experienced executives. The Mentoring Scheme enhances the Department's interaction with professionals and firms operating in the built and natural environment: <http://www.landecon.cam.ac.uk/about-us/mentoring-scheme>.

If you are interested please email: Sue Tilney on [lerefadm@hermes.cam.ac.uk](mailto:lerefadm@hermes.cam.ac.uk), who can provide you with more details about the Scheme and application process.

## Departmental seminars

The Department organises a series of seminars held on Wednesday afternoons during Michaelmas and Lent terms, to which all students are invited. The seminars focus on research being undertaken in the Department and elsewhere, and are led by visitors to the Department, members of the teaching and research staff and by postgraduate students. Although they are not compulsory, postgraduate students are particularly urged to attend to experience the range and diversity of research undertaken in Land Economy.

Details of seminars will be circulated at the start of the Michaelmas and Lent terms and will be available on the Department's Intranet. There may also be occasional special seminars, mounted at short notice, usually to take advantage of the presence of a distinguished visitor to the Department. Details of any such seminars will be circulated by email to all relevant groups.

In addition, it is intended that regular seminars will be provided by leading professionals working in the field of environmental policy. These will be jointly hosted with the Department of Geography and will fall on Fridays during Full Term.

## Real Estate Finance and Investment Practice Seminars

The Department organises a series of seminars, held on Thursday at 5-7pm to which all MPhil students are welcome. The seminars involve leading real estate professionals and industry specialists who talk about the work of their firms and raise key issues and topics in the property markets. This provides a valuable market context to complement the specialist modules of the MPhil in Real Estate Finance.

Details of the seminars are usually circulated via email during term time on a weekly basis and will be available on the Department's Intranet. A provisional programme will be mailed to all students at the start of each term.

## Graduate Conference Travel Fund

All current MPhil and PhD students of the Department of Land Economy are eligible to apply to the Department for funding for the purpose of attending academic conferences and/or travel for research purposes. MPhil students may apply once during their course up to a maximum of £100 per application. PhD students may apply twice during their course up to a maximum of £300 per application. **Eligibility criteria apply and are published, together with the application form, on the Department's Intranet.**

Funds may be requested to help cover the costs of travel to and from academic conferences; and/or fees for attending academic conferences; and/or travel costs associated with undertaking academic research. Accommodation, subsistence and/or equipment costs may not be claimed from this fund.

In all cases it is expected that students will have applied to their college and/or any other relevant body prior to making an application for funds from the Department.

## Skills training

### Computing Service

Students are expected to take personal responsibility for ensuring that they are familiar with basic software packages that they will require to use during the course of their studies. The University Computing Service offers a wide variety of instructor-led and self-taught training courses for beginners and advanced users. Students are strongly advised to make use of this service: <http://www.training.cam.ac.uk/ucs/>.

### Transferable skills

General information on transferable skills for postgraduate students is available via the University's Skills Portal: <http://www.skills.cam.ac.uk/>. Information on transferable skills training for postgraduate students within the School of Humanities and Social Sciences is available from the School's webpage: <http://www.cshss.cam.ac.uk/transferable-skills>.

### Graduate Development Programme

The University provides further teaching and transferable skills training to graduate students via the Graduate Development Programme: <http://www.ppd.admin.cam.ac.uk/>.

### Social Sciences Research Methods Centre (SSRMC)

The SSRMC provides training in research methods to Masters-level and PhD students across the University. Modules are provided at all levels from basic to advanced, on a wide range of methods, and students are welcome to take any modules that interest them, in addition to any that may be required for their degree course (some modules do ask for prerequisite skills).

A full list of the modules provided by the SSRMC:  
<http://www.ssrmc.group.cam.ac.uk/Modules/Core-modules-list>.

Most modules run for 2 hours per week over 4 weeks, though there are variations on this, including some one-day "intensives". Nearly all SSRMC modules in quantitative methods are assessed, either by multiple-choice tests or assignments. These assessments are not compulsory for all students (please note LER students are required to undertake these assessments) but it is generally a good idea to take the assessment anyway, as a useful gauge of your progress.

Students are responsible for making their own bookings and you must make a booking for each module you take (the Skill Check window opens between 1-30 September 2017). For information on how to book: <http://www.ssrmc.group.cam.ac.uk/bookings/making-a-booking>.

### Good Academic Practice and Plagiarism

University guidance on good academic practice and plagiarism, including information on study skills and referencing conventions: <http://www.admin.cam.ac.uk/univ/plagiarism/>.

### Other

University Library training: <http://training.cam.ac.uk/cul/theme>  
Language Centre: <http://www.langcen.cam.ac.uk/>  
Careers Service: <http://www.careers.cam.ac.uk/>

## Teaching arrangements

### When lectures start

In conformity with general University practice, formal teaching normally commences in the Department on the first Thursday in Full Term. Exact dates for the current academic year can be found in *Calendar highlights* at the front of this *Handbook*.

### Teaching method

MPhil modules are generally taught by lecture only. There are normally two one-hour lectures per week, per module. These lectures may be supplemented and/or replaced by seminars and/or workshops. Co-ordinators may choose to vary the method by which the module is taught dependent upon the number of students on the course. Teaching will take place at the same time and place for the whole of a particular term where possible.

Often two or three members of staff lecture on each module, and will usually participate in the examining process for that module. While lectures are not compulsory, you are strongly recommended to attend all of them. If you miss one for any reason, you would be well advised to review the notes of someone who did attend.

In addition, you are welcome to attend any undergraduate lectures in the Department; and you may be advised by your module co-ordinator or your supervisor to attend a specified series of lectures as a part of the course, or to familiarise yourself with a particular topic by way of background. Do take advantage of all that is going on in the Department: this includes lectures, departmental seminars, special meetings and social functions.

In the following pages we offer advice on the core areas of our teaching and learning. Our *Code of Practice on Teaching* establishes the framework within which we operate, and sets out our practices in respect of the organisation and the provision of teaching within the Department. We then give guidance on examinations, coursework, the writing of the dissertation, and supervision.

### Lecture Timetable

The timetable information is in electronic form that allows students to select the elements of the public timetable that are relevant to them individually, and add them to a personalised calendar. Students can optionally subscribe to an iCal Feed to add events to their local calendar which will then be updated if the course details change. Those students who choose to do it are advised to check the time zone of their device's calendar app. Depending on which electronic calendar client students are using, and on its settings, it can take up to 8 hours for changes to show up in their own calendar. If changes need to be made at short notice to deal with unforeseen circumstances, the warning will be circulated via email.

Students can get instructions on how to create personalised calendars here:

<https://www.uis.cam.ac.uk/services/teaching-learning-services/lecture-list-website/student-how> the link to the timetable is published on the Department's intranet and will also be circulated via email.

### Recording lectures

Recording Lectures and Mobile Devices in Lectures Recording of lectures, practical classes and seminars is NOT permitted under normal circumstances. Mobile devices should not be used for this purpose and should be switched OFF during lectures, including mobile telephones.



However, recording is permitted in the case of disability or specific learning difficulties as advised to the Department by the Disability Resource Centre by written agreement. Any person intending to record lectures MUST make this known to the lecturer before the lecture starts.

Unauthorised recording is regarded seriously and may lead to exclusion from further lectures, seminars and classes.

## Code of practice on teaching quality

### Introduction

This code of practice outlines the approach taken by the Department of Land Economy in ensuring the quality of the teaching that it provides to postgraduates in the Department. It is based upon the following definition of “effective teaching” which has been adopted by the General Board of the University:

- having clear objectives which are consistent with course aims;
- being well prepared, structured and effectively performed, taking account of the needs of students of all abilities;
- making appropriate use of available facilities, equipment and aids;
- stimulating interest and encouraging independent learning.

### Module Co-ordinators

Co-ordinators are appointed each year for each MPhil module offered by the Department. Appointments are made by the Head of Department. A list of module co-ordinators for the current academic year is given later in this *Handbook*.

Each module co-ordinator is responsible overall for the teaching programme in the relevant module, to include:

- preparation of the outline and lecture programme for the module;
- providing a reading list for the module;
- providing an introduction to the module and being available to answer queries from students who may be considering taking the module;
- overseeing the administration of the module throughout the year, although he or she may not be responsible for all the teaching on the course;
- providing advice to students about the necessary background for the module, and on any relevant lectures available in the Department or the University to complement the course or make good any gaps in a student’s background knowledge.

### Course Directors

The Directors of the MPhils will provide direction and assistance to students on those programmes. If issues specific to these programmes arise, you should discuss them with the appropriate Course Director. They are as follows:

<b>Real Estate Finance:</b>	Dr Franz Fuerst
<b>Environmental Policy:</b>	Dr Shaun Larcom
<b>Planning, Growth and Regeneration:</b>	Dr Elisabete Silva
<b>Land Economy Research:</b>	Dr Nicky Morrison
<b>Land Economy by Thesis:</b>	Dr Nicky Morrison

### **Director of the Graduate Programme**

The Director of the Graduate Programme is Dr Franz Fuerst. The responsibilities of the post are to ensure, on a day to day basis, the general quality of the postgraduate teaching programme, and to provide a first point of reference for the resolution of any difficulties arising. You are urged to contact him immediately in the event of any difficulties (e.g. should a lecturer fail for any reason to turn up for a lecture, or where there are difficulties in making contact with the module co-ordinators).

Speedy communication is essential to allow any problems to be tackled promptly. The Director will also encourage lecturing staff to attend relevant courses offered by the University's Staff Development Programme, and for this purpose liaise with the Department's Staff Development Officer and the Head of Department.

### **Course materials**

The MPhil outlines contained in this *Handbook* are intended to give a clear indication of the content of each course. They provide a statement of the course aims and objectives, and demonstrate the overall structure of the course. There is great variation in the content of these materials, and the Department does not impose any rigid format. The outlines given in this *Handbook* may be supplemented further by handouts provided by lecturers at the beginning or during the teaching of the module. Where provided, copies of these handouts and course readings may be available in Reception for students to collect. For many modules, the full materials are now also accessible on the Department's Intranet.

### **Innovative teaching methods**

Members of the teaching staff of the Department are encouraged to explore methods going beyond the traditional structure of two lectures per week. Some funding is available in the Department to support field trips, bringing in external speakers, and the holding of supplementary seminars. The Department seeks to ensure that students make full use of the computing facilities available in the Department, and that they gain experience in making oral presentations and in writing extended essays.

### **Examinations**

The Department has adopted a *Code of Practice for Examiners* which ensures that every script is marked independently by internal examiners, and that external examiners play a supervisory role in ensuring that standards are applied properly and evenly. Examiners are appointed by the Degree Committee.

## Examination and assessment

The following section sets out key information on examination and assessment. It covers written examinations, formal assignments and the dissertation. In addition to the information set out below the Department publishes further examinations guidance documents on the intranet (e.g. marking and penalty schemes). Candidates are advised to familiarise themselves with all information provided.

### Academic requirements for the MPhil degree

In order to be awarded the MPhil degree a candidate must meet the required criteria, as set out in the formal examining scheme.

In order to achieve the degree a candidate for the MPhil in Environmental Policy, MPhil in Planning, Growth and Regeneration, or MPhil in Real Estate Finance must:

- achieve an overall weighted average mark of at least 60%, calculated as the aggregate mark for all modules taken by the candidate divided by ten; AND
- not failed more than two optional modules or one core modules; AND
- a candidate will have passed a core module if the combined mark from the Michaelmas and Lent term assessments is at least 60%; AND
- pass the dissertation (mark of at least 60%).

In order to be awarded the MPhil degree, a candidate for the MPhil in Land Economy Research must:

- achieve an overall weighted average mark of at least 60%, calculated as follows:
  - Each Land Economy optional modules is counted as 10% or a core module as 20%
  - The Research Methods Essay is counted as 20%
  - The dissertation is counted as 60%; AND
- pass the dissertation (mark of at least 60%); AND
- Satisfactorily completed the Social Science Research Methods modules with a mark of at least 50%.

MPhil in Land Economy by thesis students are examined by thesis and oral examination only. No mark is awarded. The degree is awarded on a pass/fail basis. Only corrections are permitted and there is no provision for resubmission of a revised thesis should the candidate fail the examination.

### Examining schemes

The examining schemes are approved from year to year, and are therefore liable to variation. Approved schemes will be made available at the start of the academic year. Candidates are advised to consult the relevant scheme for guidance on marking boundaries.

The pass mark is 60%. A degree is awarded with merit when a candidate has attained an average mark between 70%-74%. Those students who have attained an average mark of 75% or above receive a degree with distinction.

## Method of examination

The MPhil in Land Economy (by thesis) is examined by thesis and oral examination only. Further details are given in the programme outline for this course.

- For all other MPhil programmes, in addition to the compulsory dissertation, the examinations to be held in 2017/18 will be conducted as follows:
- Modules offered in Michaelmas Term will be examined before the start of Full Lent Term by one or two essays and/
- or projects, and/or by written examination. All written examinations shall be of 2 hours duration. In all cases MPhil in Land Economy Research candidates will be examined by essay(s) and/or project work and not by written examination.

Modules offered in the Lent Term will be examined before the start of full Easter Term. All written examinations shall be of 2 hours duration. In all cases MPhil in Land Economy Research candidates will be examined by essay(s) and/or project work and not by written examination.

In addition, MPhil in Land Economy Research candidates are also required to complete a 4,000 word research methods essay in the Lent Term. The examination shall include an oral examination on the work submitted by the candidate and on the more general field of knowledge within which it falls; save that the Examiners may, at their discretion, waive the requirements for an oral examination.

All candidates **must** therefore ensure that they will be available for oral examination. Usually oral examinations will take place mid-September. The date for this will be confirmed with the candidates concerned (usually in early September).

There is no provision within the regulations for a candidate to take a re-sit (unless a formal examination allowance is granted - see below) if he or she should fail all or part of an examination. Nor will a candidate be permitted to substitute a different module in place of one that has been failed.

## Word limit penalties

The prescribed word limits for all assessed work and the dissertation **MUST** be observed. Exceeding the word limit will involve a penalty being applied to the final mark: that is, a deduction of marks. These penalties can be serious and may result in failure of the work in question and may ultimately lead to failure of the degree. Please ensure that you check you have observed the word limit **BEFORE** submission. The scale of penalties is published as part of the *MPhil Examinations Guidance* on the intranet.

A LET (Land Economy by Thesis) thesis that exceeds the word limit will not be examined until its length complies with the prescribed limit.

## Late submission penalties (including electronic copy)

The submission deadlines for assessed work and the dissertation must be observed. Late submission will incur penalties. Failure to submit on time may result in a deduction of marks. Such penalties may be serious and may lead to failure of the work in question and may ultimately lead to failure of the degree. The scale of penalties is published as part of the *MPhil Examinations Guidance* on the intranet. Candidates taking the 48 hour project should note that the penalty scheme for this coursework is different (i.e. more severe) than the standard scale.

As well as hard copy, candidates will be required to submit all of their assessed work and the dissertation in electronic format ahead of the submission date. Failure to submit all of the above by the deadline in the relevant rubric is equivalent to late or non-submission and will attract penalties. Electronic and hard copy of the submitted work must be identical. Raw data should be provided as requested and as separate file(s).

For 'by thesis' candidates late submission is not permitted. Theses that are submitted late **will not be accepted for examination** unless a formal extension to the submission date has been agreed by the Degree Committee and Board of Graduate Studies.

### **Extension to the submission date**

In exceptional circumstances the Chair of MPhil Examiners and/or Degree Committee Secretary, may agree to grant a short extension to the submission date of a piece of assessed work and/or the dissertation. Candidates are advised that this will only be considered where there are serious medical or personal reasons for doing so. The formal process for applying for an extension must be followed. Details of the formal process are available as part of the *MPhil Examinations Guidance* on the intranet. **Module co-ordinators, lecturers, supervisors and/or examiners may not grant extensions or vary submission dates, for groups or individual students.**

### **Examinations Allowances**

Candidates who for serious medical or personal circumstances were hindered in or prevented from taking a written examination or completing a formal assignment may request a formal examination allowance, via their College Tutor, from the Board of Graduate Studies. Full guidance on procedures and circumstances under which an application will be considered are available online: <http://www.admin.cam.ac.uk/students/studentregistry/exams/after/allowances.html>.

### **The use of unfair means in university examinations**

The use of unfair means, such as plagiarism or other forms of cheating is treated with the utmost seriousness by the University. Any suspicion that a candidate may have cheated in an examination room or used improper means such as plagiarism must be reported to the Senior Proctor and appropriate action will be taken. This includes reduction of marks, exclusion of marks and denial of the degree. Every candidate who submits work for formal examination will have work automatically checked. Candidates are advised that making a final version of their assessed work available to other candidates is considered to be unacceptable and that such an act constitutes collusion. Candidates who have analysed data in the research for their dissertation and/or project work should retain the raw data until after the examination is completed.

The University subscribes to Turnitin UK software which is widely used in UK universities and matches text in work submitted to the software to that in a large database of online sources. The Board of Land Economy has approved the use of Turnitin UK software for screening of students' assessed work. Students will be provided with detailed information about the use of Turnitin and asked to agree to their assessed work being screened with Turnitin: <http://www.admin.cam.ac.uk/univ/plagiarism/examiners/detection.html>.

### **Exam preparation**

The MPhil Form and Conduct Notice sets out the agreed examination format for each module offered in the current year. This is published as part of the Examinations guidance on the Intranet.

The Department also posts past papers for each module on the intranet, together with Examiners' Reports. Where the structure or format of a written examination paper has been changed from a previous year, a specimen paper will be provided by the examiners.

### **Timing of written examinations**

Modules offered in the Lent Term will be examined before the start of full Easter Term. The start date for the examinations period is given in the *Calendar highlights*.

Students should note that the Department is not responsible for preparing the timetable for written examinations. This is carried out centrally within the University. Students should be aware that examinations can fall outside the normal college residency periods and it is not unusual for some students to have to sit two examinations in one day. The examinations timetable will be circulated to students as soon as it has been confirmed to the Department. It is not possible to re-arrange or postpone Examinations to meet the personal circumstances of students, save in those cases where an Examination falls during a religious or similar festival routinely observed by the candidate. In such cases, the student should contact their College Tutor.

Since examinations are held in a variety of locations in the town, from the Corn Exchange to the Old Schools, you are urged to make yourself familiar with the whereabouts of all the examination rooms to which your papers have been assigned well before the day of your examinations.

### **Calculators for use in written examinations**

For the 2017/18 Land Economy MPhil examinations, the approved models are the standard University calculator CASIO fx 115 (any version); CASIO fx 570 (any version) or CASIO fx991 (any version) or the Hewlett Packard HP 10BII and HP 10BII+. **Candidates may only take one model of calculator into the examinations hall.**

Calculators must be marked in the approved fashion by Land Economy Reception. Unmarked calculators will not be permitted in the examination hall. Hewlett Packard HP 10BII calculators are available to purchase from Land Economy Reception at a cost of £35.

### **Exam Access Arrangements**

Candidates who suffer from dyslexia or from other disabilities are advised to contact the Disability Resource Centre (<http://www.disability.admin.cam.ac.uk/>) early in the academic year. Candidates requiring special exam arrangements to be put in place should contact their College Tutor well in advance of the examinations period. Applications are made, via the College Tutor to the Board of Graduate Studies. Further information on Special Examination Arrangements is available from the Student Registry: <http://www.admin.cam.ac.uk/students/studentregistry/exams/before/special.html>.

### **Candidate numbers**

Usually, examined assignments are blind marked by two examiners. Candidates are therefore issued with a **Departmental Candidate Number** to use when submitting such work for examination. This number should be used instead of the candidate's name on all coursework (including electronic copy). The Department will send a letter to student's colleges confirming the personal number at the beginning of the academic year. Candidates should keep their number confidential and use it only when submitting work for examination. Candidates will also receive a separate **Examination Candidate Number** for use in formal written examinations. These are

released to students by the University Registry, via the Department towards the end of the term immediately preceding the examination.

### **Examined Assignments**

Examined assignments will be released by a member of administrative staff via Moodle at a date and time agreed by the Examiners and confirmed by the Degree Committee. Dates for the current year are published below. Under no circumstances will students be able to access examined assignments before the designated time. All students are expected to take responsibility for ensuring that they access formal assignments in good time and plan their workload accordingly.

All formal assignment outlines will clearly state:

- the **deadline date and time** for submission;
- the **form** in which the assignment should be submitted;
- the **prescribed word count**.

Students should note that whilst as far as possible the same submission format is used for all examined assignments there may be instances where this requirement varies. It is the responsibility of the candidate to check these details carefully and **BEFORE** submission. Failure to submit work in the correct format will constitute non-submission and may result in the application of late submission penalties.

Candidates should not put their real name anywhere on their work. Instead, your Departmental Candidate Number should be clearly written/typed on the front page. Where required hard copy should be printed on A4 and stapled, bound or fixed in a slim folder. In all cases submitted work should be accompanied by the appropriate declaration.

**Submission must be made by the candidate.** Candidates have full responsibility for the submission of their work and may NOT use third parties (whether fellow students, commercial couriers or other parties) for submission. In very exceptional circumstances, confined largely to emergencies or serious medical conditions, the Chair of Examiners may permit an alternative submission procedure: even here, the candidate retains the responsibility for submission.



## Assignment Handout and Submission Dates 2017-2018

The Degree Committee of Land Economy give notice that the handout and submission dates for examined coursework, projects and essays for modules offered in 2017/2018 will be as listed below. Certain modules listed will also be examined by written examination and/or other means.

<b>Michaelmas Term Modules</b>		
<b>Module</b>	<b>To be released from 12 noon on</b>	<b>To be submitted no later than 12 noon on</b>
<b>EP01 (48hr)</b>	Monday 4 December 2017 (wk0)	Wednesday 6 December 2017 (wk0)
<b>EP02 (48hr)</b>	Monday 15 January 2018 (wk0)	Wednesday 17 January 2018 (wk0)
<b>EP03</b>	Thursday 30 November 2017 (wk0)	Tuesday 16 January 2018 (wk0)
<b>EP08</b>	Monday 11 December 2017 (wk0)	Friday 26 January 2018 (wk2)
<b>PGR01</b>	Monday 4 December 2017 (wk0)	Friday 12 January 2018 (wk0)
<b>PGR02</b>	Monday 11 December 2017 (wk0)	Friday 19 January 2018 (wk1)
<b>PGR04</b>	Monday 18 December 2017 (wk0)	Friday 26 January 2018 (wk2)
<b>RE01</b>	Thursday 30 November 2017 (wk0)	Wednesday 10 January 2018 (wk0)
<b>RE02</b>	Monday 18 December 2017 (wk0)	Friday 26 January 2018 (wk2)
<b>RE04</b>	Friday 15 December 2017 (wk0)	Wednesday 31 January 2018 (wk2)
<b>RM01</b>	Monday 11 December 2017 (wk0)	Friday 19 January 2018 (wk1)

<b>Lent Term Modules</b>		
<b>Module</b>	<b>To be released from 12 noon on</b>	<b>To be submitted no later than 12 noon on</b>
<b>RE03</b>	Monday 5 March 2018 (wk7)	Friday 6 April 2018 (wk0)
<b>EP07</b>	Monday 5 March 2018 (wk7)	Friday 6 April 2018 (wk0)

### ***Additional dates for Land Economy Research students only***

In instances where Land Economy Research Students opt to take modules normally assessed by written examination, the examiners will be asked to provide a separate assignment. Where a module is usually examined in a combination of forms it is also likely that the candidate will be set a separate assignment. The dates for the release of any such alternative assessments, together with the SSRMC Research Methods essay will be as follows:

<b>Michaelmas Term Modules</b>		
	<b>To be released from 12 noon on</b>	<b>To be submitted no later than 12 noon on</b>
<b>LER</b>	Thursday 23 November 2017 (wk8)	Tuesday 16 January 2018 (wk0)

<b>Lent Term Modules <i>and</i> SSRMC Research Methods Essay</b>		
	<b>To be released from 12 noon on</b>	<b>To be submitted no later than 12 noon on</b>
<b>LER</b>	Thursday 8 March 2018 (wk8)	Tuesday 24 April 2018 (wk0)

## The Dissertation

An important aspect of each graduate programme within the Department is the completion of a supervised research dissertation or thesis. It is regarded by the Department as an important exercise in developing the skills of the student in formulating research questions, the subsequent investigation of those questions and the final reporting of the process and conclusions of the research. All MPhil candidates in the Department are required to submit a dissertation or thesis and in all cases this element must be passed in order to pass the course for which the candidate is registered.

### The Dissertation, Research Design, and Structure (DRDS) module

The DRDS module is primarily intended as a guide for students to the elements and tools involved in academic research. Specifically, it provides a framework for defining and conducting an MPhil-level research project in the context of a dissertation. Each session revolves around a particular skill required for conducting a successful research project, including examination procedures, dissertation writing, ethics and plagiarism, quantitative and qualitative methods as well as presentation skills. The timetable for this module is given below and is also listed in the main MPhil Michaelmas Term Timetable. All MPhil students are expected to attend the general sessions and those for the course on which they are enrolled.

Tuesday 10 October Week 1	11am- 1pm	MPhil Session Introduction, Research and Dissertation Planning & Research Ethics Dr Franz Fuerst - Director of Graduate Programme Mill Lane Room 7		
Tuesday 17 October Week 2	11am- 1pm	MPhil Session Designing and Structuring a Research Project Professor Colin Lizieri Mill Lane Room 7		
Tuesday 24 October Week 3	11am- 1pm	REF session Dr Thies Lindenthal	PGR session Dr Elisabete Silva	EP session Dr Shaun Larcom
Tuesday 31 October Week 4	11am- 1pm	REF session Dr Thies Lindenthal	PGR session Dr Elisabete Silva	EP session Dr Shaun Larcom
Tuesday 7 November Week 5	11am- 1pm	MPhil Session Survey Methods and Secondary data Anna Clarke Mill Lane Room 7		
Tuesday 14 November Week 6	11am- 1pm	MPhil Session Methods and Data Prof Andreas Kontoleon Mill Lane Room 7		
Tuesday 21 November Week 7	11am- 1pm	Presentation skills Dr Elisabete Silva Mill Lane Room 7		
Tuesday 28 November Week 8	11am- 1pm	Review and options Dr Elisabete Silva Mill Lane Room 7		

### **Appointment of Dissertation supervisors**

Candidates for the MPhil in Land Economy by thesis and MPhil in Land Economy Research will have been appointed a supervisor at the time of being accepted to the course. For all other students the Department will appoint a supervisor in Michaelmas Term once dissertation summaries have been submitted or such other time as the Degree Committee deems appropriate. Candidates will be informed who has been allocated as their supervisor as soon as possible. If for any reason it appears that the appointed supervisor is inappropriate, candidates are free to invite any member of the academic staff to undertake this, or to provide you with assistance. It is important that you inform the Graduate Co-ordinator of any agreed changes. While every effort will be made to assist with a new supervisor, members of staff are not obliged to agree to such requests. If you encounter difficulties in securing supervision or assistance for your dissertation, please discuss it with your allocated supervisor, Course Director and/or the Director of the Graduate Programme.

### **Choice of topic and approval of title**

The deadlines for submission and approval of titles for dissertations are early, and they are firm. This has caused some difficulties for candidates in the past, because they feel that they cannot sensibly plan for their dissertations until they have had sufficient time to master the material given to them in lectures and seminars. However, the Department sees great advantages in imposing early deadlines because they enable all candidates to address the themes of their dissertations at an early stage. In order to complete a successful dissertation, a candidate should be working on it from an early date and alongside his or her other modules.

Support for the choice of topic and advice during the initial stages in the preparation of the dissertation will be given through the compulsory modules, in co-operation with your Course Director and lecturers. Do take the advice of academic staff when considering your choice of topic(s). Remember how low the overall word limit is and make sure you settle on a topic which can be tackled adequately within that limit. There is a common tendency for students to be over ambitious at this stage. As a general rule, the more narrowly focused the topic, the more likely you are to be able to do full justice to it. This does not obviate the need to read widely, so as to be able to place your topic in context; but it does mean that you should avoid very general topics upon which you are unlikely, with all the reading you will need to do, to be able to provide anything more than a superficial discussion.

## Fieldwork

Under University Regulation candidates following one year MPhil courses are not permitted to 'work away' from Cambridge. Candidates should therefore select a research topic that can be completed whilst ensuring that they meet the University's residence requirements (see *Residence, Fieldwork and Employment* for further details).

## Approval of title and research proposal

Candidates for the MPhil in Land Economy by thesis will have submitted a provisional title and research proposal at the time of being accepted onto the course. Changes to titles and amendments to proposals must be submitted by a specified date in Lent Term. Candidates are also asked to provide a short abstract or summary (max. one page) of the thesis two months in advance of submission. This will be sent to the examiners when they are appointed.

Candidates for the MPhil in Land Economy Research will also have submitted a provisional title and research proposal at the time of being accepted onto the course. Changes to titles and amendments to proposals must be submitted by a specified date in Lent Term.

Candidates for the MPhils in Environmental Policy, Planning, Growth and Regeneration and Real Estate Finance are required to submit dissertation titles for approval by the Degree Committee after commencing the course. There are three stages:

- i) *Initial proposal:* A summary (approx. 500 words) of the proposed topic should be submitted by a specified date in Michaelmas Term. The proposed topic will be used to allocate an appropriate supervisor. Candidates should discuss their topic with relevant staff prior to submission.
- ii) *Provisional approval:* The provisional title and topic should be discussed with and approved by your supervisor. Candidates will be expected to submit an approved research outline (1-2 pages min.) and an agreed title by a specified date in Lent Term. The proposed title will then be submitted to the next meeting of the Degree Committee for approval.
- iii) *Final approval:* Students are required to submit a final research proposal (2,000 words) that has been approved by their supervisor in April. Minor changes to the title may also be requested by this date for approval by the Degree Committee at their next meeting. After that, the title is final: no changes are permitted after this date. The dissertation will be assessed in accordance with this title. This title should appear on the front of the dissertation submitted for examination.

The timeline for submission of the various elements outlined above are given in the *Calendar highlights* and in the programme outlines published in this *Handbook*.

## Writing the dissertation

Students are advised that treatment of their chosen topic should be critical, structured and specific. First principles should be considered, then applied to a specific problem. If a candidate chooses a topic which requires a statistical or empirical approach, he or she should be conscious of the limited time available and be aware of committing themselves to unreliable or inaccessible data sources.

Examiners will look for evidence of grasp of relevant reading, and for critical ability; for ideas, insights, imagination and originality; for a demonstration of skills in more than one discipline, where appropriate; for ability to apply methods of analysis to specific problems and to express ideas clearly and accurately using statistical or mathematical techniques where appropriate. Whilst the choice of style is a matter for individual candidates, the presentation should be clear and consistent.

### Referencing, footnotes and bibliography

The Department does not prescribe any particular referencing or bibliographic style either for the Dissertation or for most assessed work. Where a particular referencing style is required this will be highlighted to students in the assessment outline. Otherwise candidates are free to choose a style which they consider most appropriate, or which they are familiar with. The University provides information on referencing conventions at the following website:

<http://www.plagiarism.admin.cam.ac.uk/resources-and-support/referencing>.

In all cases, work must be fully and accurately referenced, and statements of fact and opinion should be attributed to a precise source. Unsupported opinions should be avoided. In particular, you should be careful never to quote from the work of others without:

- ensuring the complete accuracy of the quotation;
- including the quoted material in quotation marks or an identifiable indented paragraph; and
- providing an exact reference to the source, including the name of the author, the book or journal and the page number.

Failure to observe these simple rules may lead the examiners to conclude that, not only is the work not your own work, but that it has been deliberately plagiarised. No credit can be given to a candidate for such work. **The University takes plagiarism very seriously and it may lead to failure of the degree and exclusion from the University. Further information on plagiarism is given in this *Handbook* and you are advised to read it very carefully.**

### Dissertation word length

The prescribed word length for the dissertation for each MPhil course is as follows:

- MPhil in Environmental Policy, MPhil in Planning, Growth and Regeneration and MPhil in Real Estate Finance candidates should submit a dissertation of between 10,000 and 12,000 words.
- MPhil in Land Economy Research candidates should submit a dissertation of between 18,000 and 20,000 words.
- MPhil in Land Economy (by thesis) candidates should submit a thesis of between 28,000 and 30,000 words.

Candidates should note that the prescribed word length is **inclusive of everything except the bibliography**. Any and all other text will be counted including (but not confined to): the title page, declaration, abstract, acknowledgements, contents, indexes, headings, notes, footnotes, endnotes, annexes and appendices. Diagrams, graphs, maps, illustrations, tables of statistics and symbols will all be counted with an A4 page being assessed as equivalent to 250 words, part pages being assessed on a pro rata basis

## Format of the dissertation

Candidates are advised that the form in which the dissertation is presented, and the care with which it has been prepared and illustrated, are in themselves evidence of your capabilities, and will receive consideration as such. You are strongly advised to check your dissertation carefully, prior to submission, for typing errors, spelling mistakes and poor English.

The dissertation must:

- be bound in either spiral or hard binding;
- typed and presented in 1.5 line spacing;
- printed on single or double sided sheets of A4 paper;
- include a cover sheet stating the candidate's full name, college, approved dissertation title, MPhil course, supervisor and the statement: *This dissertation is submitted for the degree of Master of Philosophy*
- include the necessary declarations (see below).

## Dissertation Declaration

In order to comply with the Regulations for the Degree, the final version of the dissertation must contain the following declaration. A copy of the declaration is available to download from the intranet. **It must appear in both copies of the dissertation directly behind the cover sheet. It must be signed and dated by the candidate.**

*I hereby declare that this dissertation:*

- *is the result of my own original work and includes nothing which is the outcome of work done in collaboration except where specifically indicated in the text and bibliography;*
- *does not exceed the limit of length prescribed in the Special Regulations of the MPhil examination for which I am a candidate;*
- *is not substantially the same either in whole or in part, as any dissertation that I have submitted, or, that is being concurrently submitted for a degree or diploma or other qualification at the University of Cambridge or any other University or similar institution;*
- *that I agree to my project being run through plagiarism detection software, should the need arise and that I have read the University's guidance on the matter available at:*  
<http://www.plagiarism.admin.cam.ac.uk/>

If you are unable to subscribe to the third point of this declaration you should, in the preface of the dissertation, say which parts have already been, or are being concurrently submitted for a degree, diploma or other qualification at any other University. You are advised to discuss the inclusion of any such work with your supervisor as it may be considered by the Examiners to lessen the originality of your work.

## Submission of dissertation

The deadlines for submission of the dissertation are given in the programme outlines published in this *Handbook*. It is your responsibility to ensure that you submit by the deadline. Late submission will incur penalties.

**Candidates must submit their dissertation in person.** Candidates have full responsibility for the submission of their work and may NOT use third parties (whether fellow students, commercial couriers or other parties) for submission. In very exceptional circumstances, confined largely to

emergencies or serious medical conditions, the Chair of Examiners may permit an alternative submission procedure: even here, the candidate retains the responsibility for submission.

**Candidates are required to remain in residence in Cambridge until the day they submit their dissertation.** Consequently, you should not arrange or accept any commitments outside Cambridge before this date. In particular, you should not make arrangements to travel abroad before this date. In exceptional circumstances, you may be given permission to submit early. This must be with the prior agreement of the Director of the Graduate Programme and with the agreement of your supervisor. Permission is not always given and where it is given, you will have to accept that early submission may have a detrimental effect on the quality of your work.

Early submission is entirely at your own risk. The Department will not be sympathetic to any issues concerning your ability to complete the dissertation on time and to the required standard if you have by choice take on other commitments. No special arrangements will be made for you to submit your dissertation and you will be expected to do so following standard submission procedures.

At the time of submission candidates must provide:

- Two hard copies of the final dissertation to include the mandatory signed declaration bound into both versions.
- One electronic copy of the final dissertation, to include a copy of any raw data, should be submitted via Moodle.

Submission arrangements will be confirmed. MPhil dissertations are not blind marked and candidates should put their name on both hard and electronic copies of their work.

### **Penalties**

Penalties will be incurred for late submission or exceeding the word count. The same scheme of penalties applies to the dissertation, as applies to all other assessed work for the degree. See penalty schemes as published on the Intranet.

### **Timeline and interim presentation**

During the Michaelmas term, students are expected to develop their dissertation topic. They may also consider potential or preferred supervisors for their topic.

During the Lent term, students will apply the knowledge acquired in the previous term to their dissertation research and will give a brief presentation of their research and obtain feedback from their peers and academic staff. Details on the format, timetabling and venue of these interim presentations will be announced nearer the date.

At the start of the Easter term, students will submit a fully worked-up proposal of around 2000 words accounting for 15% of the overall dissertation mark. The proposal should provide an introduction motivating the research topic, a concise literature review, and a methodology section outlining and justifying the proposed methodology along with expected outcomes where possible. For empirical work, it is recommended that the proposal includes a data section detailing the characteristics of the data, progress with data compilation and a brief outline of any issues or risks associated with the remaining data collection or processing work. The 12,000 word dissertation

accounts for the remaining 85% of the module. This combined mark carries a weight of 2 units in the MPhil course.

#### Overview of MPhil dissertation timeline

Thursday 2 November 2017	Deadline for submission of dissertation titles and topic summary, by 12 noon
Monday 29 January 2018	Deadline for submission of dissertation outlines and titles, by 12 noon
Second half of Lent Term (dates TBC)	Interim presentations of topics and first results
Friday 27 April 2018	Deadline for submitting <u>final dissertation titles and proposals, by 12 noon</u>
Monday 16 July 2018	Deadline for submission of dissertations, by 4pm



## Notification of results

Candidates are advised that due to the demands upon examiners, as well as for administrative, quality assurance and regulatory reasons it is not possible for students to have an indication of their results other than as set out below. An earlier release of provisional or final marks, or an informal indication of results is not possible under any circumstances. Where there is good reason the Degree Committee, in consultation with the Examiners, may withhold the release of provisional and/or final marks, and/or adapt the timetable for the release of provisional marks as set out below.

### Provisional marks

No marks are confirmed until they have been formally approved by the Degree Committee at a meeting at the end of September. However, it has been agreed that an indication of results in the form of provisional marks may be released to candidates as follows:

- Provisional Lent Term marks (Michaelmas modules) will be released to candidates at the beginning of March.
- Provisional Easter Term marks (Lent modules) and dissertation marks will be released to candidates at the beginning of September. At the same time candidates who are required to attend for oral examination will be notified.

Provisional marks are subject to change and may be adjusted (either up or down) as part of the ongoing examinations process and are provided as an indication of progress only. They are **not** official results and students are advised that they should **not** rely on provisional marks for any application.

### Feedback

The Department does not issue individual feedback on examined work and/or final dissertation results. Candidates should therefore not approach examiners or lecturers in the hope of obtaining individual feedback on their results either informally or formally. Any feedback issued will be general feedback to the cohort and is provided at the discretion of the examiner or lecturer concerned.

### Oral examinations

The Department seeks to notify all candidates required to attend for oral examination at as early a date as possible. Notification will be formally sent to those at risk of failing the degree in early September. All candidates will be notified when final decisions have been taken. Until this time candidates are expected to ensure that they are available to attend for oral examination at the end of September.

### Notification of degree and confirmation of final marks

At the end of September, the Examiners meet to agree the final marks for each candidate. The Examiners recommend to the Degree Committee the final marks, and whether or not each candidate has met the requirements of the degree for which they are being examined. The Degree Committee will review the recommendations, and will ultimately confirm the approval or non-approval of the degree in each case.

Following the Degree Committee meeting, a statement of final confirmed marks, together with notification concerning the overall outcome of their examinations will be sent to candidates by post by the Secretary to the Degree Committee. Whilst the Department seeks to notify students of the outcome at the earliest possible opportunity candidates should not expect to receive their results until mid-October following the end of their course. Until that time, all marks and results remain confidential.

The Department will not release final results to candidates in person, over the phone or via email. Instead results will be issued only by post. To ensure prompt receipt of results, candidates should ensure that the **mailing address** in their CamSIS Self-Service account is updated. If you do not know where you will be based in October, you are advised to give details of a family address which is not likely to change in order to avoid delay in receiving your final results. The Department will only issue results (original, duplicate or replacement) by hard copy letter in the post and **not** via email, in person or over the phone.

### **Graduation, Degree Certificates and Official University transcripts**

Graduation will follow a successful result. Colleges are responsible for organising Graduation and the Department has no role to play - candidates should contact their College Tutorial Office to make the necessary arrangements. Student Records will send candidates a formal University transcript of their results and Degree Certificate as appropriate once the degree has been conferred: <http://www.cambridgestudents.cam.ac.uk/your-course/examinations/graduate-exam-information/after-examination/degree-approval-and-conferment>.

### **Continuation to the PhD**

A candidate for the MPhil degree may apply as a 'continuing student' to remain on the Register of Graduate Students, in order to pursue studies for the PhD degree either in the Department or elsewhere in the University. Students considering applying for a PhD are advised to discuss their proposed research with relevant academic staff prior to application.

A formal application must be made via the Graduate Admission Office. Full details of the application procedure, application forms and funding information are given on the website. Each application is considered carefully by the Department and by the Degree Committee. It is, however, unusual for a separate formal assessment to be required before continuation is agreed to. Approval of an application will depend on three criteria:

- availability of a supervisor;
- the approval by the Degree Committee of a research proposal; and
- the achievement of a minimum overall mark in the MPhil examination and a minimum mark in the dissertation as prescribed by the Degree Committee at the point of offer.

Approval of applications is subject to the final examination results.

### **Review procedure**

The University has procedures for the review of graduate examinations. Appeals may be made to the Board of Graduate Studies, but only on the grounds that:

there were material circumstances relating to the examination of which the Examiners were unaware;

there were procedural irregularities in the conduct of the examination; or  
there is evidence of prejudice, bias or inadequate assessment.

Such representations may be referred to a University Review Committee:  
<http://www.cambridgestudents.cam.ac.uk/your-course/examinations/graduate-exam-information/after-examination/requesting-review-results>.

# Plagiarism

## University-wide statement on plagiarism

The General Board, with the agreement of the Board of Examinations and the Board of Graduate Studies, has issued this guidance for the information of candidates, Examiners and Supervisors. It may be supplemented by course-specific guidance from Faculties and Departments.

Plagiarism is defined as submitting as one's own work, irrespective of intent to deceive, that which derives in part or in its entirety from the work of others without due acknowledgement. It is both poor scholarship and a breach of academic integrity.

Examples of plagiarism include **copying** (using another person's language and/or ideas as if they are a candidate's own), by:

- **quoting verbatim** another person's work without due acknowledgement of the source;
- **paraphrasing** another person's work by changing some of the words, or the order of the words, without due acknowledgement of the source;
- **using ideas** taken from someone else without reference to the originator;
- **cutting and pasting** from the Internet to make a pastiche of online sources;
- **submitting someone else's work** as part of a candidate's own without identifying clearly who did the work. For example, buying or commissioning work via professional agencies such as 'essay banks' or 'paper mills', or not attributing research contributed by others to a joint project.

Plagiarism might also arise from **colluding** with another person, including another candidate, other than as permitted for joint project work (i.e. where collaboration is concealed or has been forbidden). A candidate should include a general acknowledgement where he or she has received substantial help, for example with the language and style of a piece of written work.

Plagiarism can occur in respect to all types of sources and media:

- text, illustrations, musical quotations, mathematical derivations, computer code, etc;
- material downloaded from websites or drawn from manuscripts or other media;
- published and unpublished material, including lecture handouts and other students' work.

Acceptable means of acknowledging the work of others (by referencing, in footnotes, or otherwise) vary according to the subject matter and mode of assessment. Faculties or Departments should issue written guidance on the relevant scholarly conventions for submitted work, and also make it clear to candidates what level of acknowledgement might be expected in written examinations. Candidates are required to familiarize themselves with this guidance, to follow it in all work submitted for assessment, and may be required to sign a declaration to that effect. If a candidate has any outstanding queries, clarification should be sought from her or his Director of Studies, Course Director or Supervisor as appropriate.

Failure to conform to the expected standards of scholarship (e.g. by not referencing sources) in examinations may affect the mark given to the candidate's work. In addition, suspected cases of the use of unfair means (of which plagiarism is one form) will be investigated and may be brought to one of the University's Courts. The Courts have wide powers to discipline those found guilty of

using unfair means in an examination, including depriving such persons of membership of the University, and deprivation of a degree.

### How to avoid plagiarism

The stylistic conventions for different subjects vary and you should consult your course director or supervisor about the conventions pertaining in your particular subject area. Most courses will issue written guidance on the relevant scholarly conventions and you are expected to have read and to follow this advice. However, the main points are:

- when presenting the views and work of others, you must give an indication of the source of the material; conventions for this vary, but one approach would be to write: '*as Sharpe (1993) has shown*', and give the full details of the work quoted in your bibliography;
- if you quote text verbatim, make this completely evident; again conventions will vary but you might say: '*The elk is of necessity less graceful than the gazelle*' (Thompson, 1942, p 46) and give the full details in your bibliography as above;
- if you wish to set out the work of another at length so that you can produce a counter-argument, set the quoted text apart from your own text (e.g. by indenting a paragraph) and identify it in a suitable way (e.g. by using inverted commas and adding a reference as above). NB long quotations may infringe **copyright**, which exists for the life of the author plus 70 years;
- if you are copying text, keep a note of the author and the reference as you go along, *with the copied text*, so that you will not mistakenly think the material to be your own work when you come back to it in a few weeks' time;
- if you reproduce an illustration or include someone else's data in a graph or table, include the reference to the original work in the legend, e.g. '*(figure redrawn from Webb, 1976)*' or '*(1 = data from Webb, 1976)*;
- if you wish to **collaborate** with another person on your project, you should check with your supervisor whether this might be allowed and then seek permission (for research degrees, the permission of the Board of Graduate Studies must be sought);
- if you have been **authorised to work together** with another candidate or other researchers, you must acknowledge their contribution fully in your introductory section. If there is likely to be any doubt as to who contributed which parts of the work, you should make this clear in the text wherever necessary, e.g. '*I am grateful to A. Smith for analysing the sodium content of these samples*';
- be especially careful if **cutting and pasting** work from electronic media; do not fail to attribute the work to its source. If authorship of the electronic source is not given, ask yourself whether it is worth copying.

# Code of practice for supervision of postgraduates & the role of supervisors

## Introduction

The Department believes that conscientious supervision is vital to the success of postgraduate study, and has prepared this Code of Practice for candidates and supervisors alike. The Department regards the student/supervisor relationship as being critical to the educational experience it offers. Supervision can be a highly personal relationship, and often forms the basis for long-lasting friendship and contact between supervisor and student. This Code cannot hope to capture all the ingredients of such a relationship, but it does point to the fundamental principles.

## Initial appointment of supervisor

The University requires that every postgraduate candidate must work under the direction of a Principal Supervisor appointed by the Degree Committee. The Department's policy for the appointment of supervisors varies according to the degree course being followed.

For PhD, MPhil 'by thesis' and MPhil in Land Economy Research candidates, the Department will only approve the admission of a candidate in the first instance if satisfied that the research plan submitted is satisfactory and appropriate to the Department, and that it is able to appoint an appropriate Principal Supervisor to undertake supervision of the specified research. For research degrees the relationship between a supervisor and a candidate is critical, and the Principal Supervisor acts both as mentor for the candidate's research and his/her main contact with the Department.

Candidates for taught MPhils (REF, EP and PGR) are assigned to supervisors during the Michaelmas Term once initial dissertation summaries are submitted or at such other time as the Degree Committee deems appropriate. Allocations are made by the Director of the Graduate Programme, in consultation with the relevant Course Directors. The Department seeks to allocate a supervisor able to provide guidance on the chosen research topic and who has similar disciplinary interests to the candidate. However, whilst candidates may wish to contact members of the Department to discuss their dissertations prior to the firm allocation of supervisors, the Department is not always able to provide candidates a supervisor who is their preferred choice.

## Supervisor's responsibilities

The Principal Supervisor's main duty is to advise candidates on the planning and execution of their programmes of advanced study or research, and to help them complete their work within the time allowed for the course concerned.

The supervisor is responsible for overseeing the design of the programme of research, and for monitoring closely the candidate's progress throughout it. Every aspect of the dissertation or thesis should be discussed with the supervisor at regular meetings. The supervisor will discuss with and advise the candidate on defining the project and its methodology, identifying appropriate sources and literature, and access to materials. The supervisor will also read and advise on draft work, and oversee progress in the research throughout the year. Regular supervision meetings are vital to achieve this. The Board of Graduate Studies recommends that formal supervision meetings should take place a **minimum of twice a term**. In the Department's experience much greater frequency is usually required, particularly in the initial stages of the research, and for MPhil

degrees where the timeframe for completion of the dissertation is short. It may therefore be appropriate for a schedule of meetings to be agreed at the start of the academic year.

The following are the principal responsibilities of supervisors:

- To arrange for regular supervisory meetings to discuss progress.
- To provide general advice on and oversight of the selection of the research topic, and guidance for its completion.
- To require written work to be submitted from time to time and to comment on it.
- To ensure that their students attend any courses of instruction and receive such other training in research methods as they may require.
- To ensure that their students are aware of the availability of appropriate advice and assistance from other members of staff; and to assist the student in securing access to appropriate materials.
- To encourage their students to regularly attend departmental and other relevant seminars and lectures.
- To encourage from time to time their students to present accounts of their work as appropriate.
- To report each term on the progress of each student, to the University's Board of Graduate Studies via CamSIS. Reports are monitored by the Degree Committee. Where concerns are expressed about progress, these are taken up by the Secretary to the Degree Committee, or relevant Course Director, as appropriate in any given case.

### **Getting to see your supervisor**

The Department is relatively small and supervisors are almost always full-time members of the Department's staff. All can be contacted by email as well as by telephone. Contact details for Departmental Staff are available from the Department's website or you can ask for them in Reception. You should therefore have little difficulty in maintaining contact. You should never have to wait for more than a week to arrange a meeting, though supervisors will not always be so readily available during vacations. It is advisable that a schedule of meetings is arranged in advance, and that contact is maintained as far as possible during absences from Cambridge.

**Candidates who have particular difficulty in contacting their supervisors should get in touch with the Director of the Graduate Programme.**

### **Absence of supervisors on leave**

The University allows lecturing staff to continue with postgraduate supervision whilst on leave, and it is common for there to be no change in supervision arrangements if your supervisor is proposing to stay in Cambridge. However, absence abroad may seriously affect the supervision relationship, and the Department checks postgraduate supervision availability when appraising requests for leave, and will offer you, in consultation with your supervisor, an alternative supervisor for the anticipated period of leave if this proves desirable. It is also common for the Department to recommend candidates to defer entry for postgraduate research if their potential supervisor is about to take leave.

If a supervisor is absent from the Department for any other reason, such as illness, the Degree Committee will ensure that substitute supervision is made available. It is not the Department's general policy to appoint as supervisors colleagues whose retirement will occur during the period allowed for the relevant degree, unless satisfied of their likely continued availability and willingness to continue to supervise following retirement.

## Changing supervisors

The formal process for changing a supervisor is by application to the Board of Graduate Studies via the Degree Committee. However, the informal process is by discussion between the supervisor and the candidate concerned, or if this is not practicable, by direct approach to the Director of the Graduate Programme or the Head of Department. Changes of supervisors are not uncommon, and are encouraged by the Department if, for example, the candidate's focus of research has changed, or an alternative supervisor becomes available. The importance of a good relationship between candidate and supervisor cannot be overstated and candidates should not feel inhibited about seeking a change, for whatever reason, if they feel that it will benefit their research. The Department is willing to do all it can to facilitate such changes, subject to the availability of resources. All members of staff are willing to help postgraduate students even where they have no formal role.

## Concerns

Please feel free to discuss in the first instance any concerns you have about supervision, or any part of the postgraduate programme, with the Director of the Graduate Programme or the Graduate Co-ordinator, who will be happy to give advice about procedures and guidance about supervision, and point you in the direction of further advice where appropriate. In the unusual event that any concerns about supervision cannot be resolved, candidates are free to contact the Head of Department or the Board of Graduate Studies for further advice. Furthermore, the colleges offer pastoral care through the allocation of Graduate Tutors.

## Complaints

The new student complaints procedures is available at: [www.admin.cam.ac.uk/reporter/2016-17/weekly/6469/section6.shtml#heading2-19](http://www.admin.cam.ac.uk/reporter/2016-17/weekly/6469/section6.shtml#heading2-19).

Please contact Professor Martin Dixon as Director of Teaching (or Dr Nicky Morrison as deputy) in the first instance. Further information can be found by contacting the Office of Student Conduct, Complaints and Appeals (OSCCA) at [studentcomplaints@admin.cam.ac.uk](mailto:studentcomplaints@admin.cam.ac.uk) for day-to-day procedural advice. A briefing on investigating and responding to local complaints for Responsible Officers can also be provided on request.



## Staff profiles

### **Dr Maria Abreu BSc (LSE), MPhil, PhD (Amsterdam)**

University Lecturer in Land Economy, and Fellow of Pembroke College. Her research covers urban economics, economic development, labour markets and innovation policy. She has worked as a consultant for the European Commission, the World Bank, the UK's Department of Business, Innovation and Skills (BIS), the National Endowment for Science, Technology and the Arts (NESTA), and the Department for Enterprise, Trade and Investment (DETI) of Northern Ireland. Prior to coming to Cambridge she worked for the World Bank in the areas of poverty, education and health, in Jakarta, Indonesia.

### **Dr Jonathan Aldred MA, MPhil, PhD (Cantab)**

Dr Jonathan Aldred MA, MPhil, PhD (Cantab) Fellow and Director of Studies in Economics at Emmanuel College. He trained as an economist but now has inter-disciplinary interests spanning economics, politics, philosophy and law. His research has covered environmental valuation, deliberative methodologies, ecological economics and the foundation of welfare economics.

### **Professor Phil Allmendinger BSc, MA, PhD, Dip Law, MRTPI, MRICS, FAcSS**

Professor of Land Economy and Fellow of Clare College. Head of the School of Humanities and Social Sciences. He joined the University of Cambridge in 2008 and was Head of the Department of Land Economy from 2012 - 2015. Prior to that he was Professor of Planning at the University of Reading (2004-2008) and before that Head of Department of Land Economy at the University of Aberdeen (1999-2004). He undertakes research and publishes widely on planning and development. Recent books include *Neoliberal Spatial Governance* (Routledge, 2016), *Planning Theory* (Palgrave, 2011, new edition 2017), *Soft Spaces of Governance in Europe: A Comparative Perspective* (with Graham Haughton, Joerg Knieling and Frank Othengrafen, Routledge, 2015), *Displacing the political: democratic deficits in contemporary European territorial governance* (with Jonathan Metzger and Stijn Oosterlynck, Routledge, 2014), *Spatial Planning and the New Localism* (with Graham Haughton, Routledge, 2013), *New Labour and Planning* (Routledge, 2011), *The New Spatial Planning* (with G. Haughton, G. Vigar and D. Counsell) (Routledge, 2010).

His current research involves a three-year project with an international consortium of Universities funded by the Swedish Research Council and focusing sustainable urban development.

### **Professor Laura Diaz Anadon MEng (Manchester & Stuttgart), PhD (Cantab), MPP (Harvard)**

Professor of Climate Change Policy; Fellow at C-EENRG; Bye-Fellow at Peterhouse; and associate researcher of the Energy Policy Research Group. She is also a Research Associate at the Belfer Center for Science and International Affairs at the Harvard Kennedy School (HKS). She joined the Department in September 2017. Before Cambridge, she was an Assistant Professor of Public Policy at HKS, where she was also Associate Director of the Science, Technology and Public Policy program, Co-Principal Investigator of the Energy Technology Innovation Policy research group, and Member of the Board of the Belfer Center for Science and International Affairs. She has engaged with policy makers in the United States, China, South Korea, the United Kingdom, Spain, and Mexico, among other countries, and contributed to the work of many international organizations (i.e., UN, IEA, UNFCCC, World Bank, OECD) in different ways. She has given many talks and plenary sessions on climate, energy and innovation policy, and is a member of the Editorial Advisory Panel in *Nature Energy*, editor of *Sustainable Production and Consumption*, and member of the editorial board of *Energy Research & Social Science* and

*Environmental Research Reviews*. Before going to academia she had some research experience in industry (DuPont, Bayer, and Johnson Matthey) and worked as a financial consultant. Her work on climate, energy, and innovation policy and systems analysis has resulted in over 40 journal articles (including *Nature Energy*, *Research Policy*, *Nature Climate Change*, *Environmental Science & Technology*, *Risk Analysis*, *Climatic Change*, *Environmental Research Letters*, *Nature Climate Change and Energy Economics*), a 2014 edited *Cambridge University Press* book entitled “Transforming U.S. Energy Innovation”, a 2017 book on science and technology policy and partnerships in the Gulf, and 6 book chapters. Anadon has also published in chemical engineering and nuclear magnetic resonance journals.

**Professor Philip Arestis BA (Athens), MSc (London), MA (Cambridge), PhD (Surrey)**

Professor and Honorary Senior Departmental Fellow; Director of Research, Cambridge Centre for Economics and Public Policy, Department of Land Economy, University of Cambridge, UK; Emeritus Fellow Wolfson College; Professor of Economics, Department of Applied Economics V, University of the Basque Country, Spain; Distinguished Adjunct Professor of Economics, Department of Economics, University of Utah, US; Research Associate, Levy Economics Institute, New York, US; Visiting Professor, Leeds Business School, University of Leeds, UK (2003-2015); Professorial Research Associate, Department of Finance and Management Studies, School of Oriental and African Studies (SOAS), University of London, UK (2003-2010). Fellow of the Forum, Macroeconomics and Macroeconomic Policies (FMM), the research network of the Macroeconomic Policy Institute (IMK) of Hans-Böckler Foundation, located in Germany. He is holder of the British Hispanic Foundation ‘Queen Victoria Eugenia’ British Hispanic Chair of Doctoral Studies, and has been awarded ‘homage’ by the Brazilian Keynesian Association (AKB) for his contribution to the spread of Keynesianism in Brazil. He was Chief Academic Adviser to the UK Government Economic Service (GES) on Professional Developments in Economics (2005-2013). AcSS award of Academician of the Academy of Social Sciences for contributions to Social Science (September 2012 to July 2014). After July 2014 changed to FAcSS (Fellow of the Academy of Social Sciences). He has published as sole author or editor, as well as co-author and co-editor, a number of books, contributed in the form of invited chapters to numerous books, produced research reports for research institutes, and has published widely in academic journals.

**Dr Helen Bao BA, MA (Dalian, China), MA (Cantab), PhD (Hong Kong)**

Helen completed her PhD in the Department of Management Science, City University of Hong Kong. Prior to coming to Cambridge, she worked for the Centa-City Property Index project, gaining extensive experience in residential property valuation and index number construction. Focusing on the areas of valuation and housing economics, her research interests include hedonic price modelling, index and benchmarking, behavioural economics and its applications in the land and housing policies in the Greater China Region.

**Dr Terry Barker MA (Edinburgh), MA (Cantab), PhD (Cantab)**

Senior Department Fellow, Department of Land Economy. His main research interest is greenhouse gas abatement through fiscal policy, including use of excise duties on energy products, energy-saving incentives, R&D incentives, development of renewable energy sources. The research is mainly applied through models of energy-environment-economy systems at the UK, EU and global levels with projections to 2100.

**Dr Lorand Bartels (Faculty of Law), BA Hons, LLB (UNSW) PhD (EUI); Solicitor of the Supreme Court of NSW, Australia**

Dr Lorand Bartels is Reader in International Law in the Faculty of Law and a Fellow of Trinity Hall at the University of Cambridge, where he teaches international law, WTO law and EU law. He holds degrees in English literature and law from the University of New South Wales and a PhD in law from the European University Institute. He was previously a University Lecturer (2007-11) and a University Senior Lecturer (2011-16). Before joining Cambridge, Dr Bartels was a Lecturer in International Economic Law at the University of Edinburgh (2003-2007). He also spent a year as an Alexander von Humboldt Fellow and an AHRC Research Fellow at the Max Planck Institute for Comparative Public Law and International Law, Heidelberg (2007).

Dr Bartels has taught at several other universities, including the IELPO (Barcelona) masters program on trade law, and in 2006 he lectured on the EU's trade and development policy at the EUI's Academy of European Law. He taught an annual intensive course on WTO law to officials at the Australian Department of Foreign Affairs and Trade for a decade.

Dr Bartels is a member of the ILA's study group on free trade agreements and helped to establish the Society of International Economic Law. He is a general editor of the Cambridge International Trade and Economic Law Series (CUP), an associate editor of the *Journal of World Trade* and an editorial board member of several journals, including the *Journal of International Economic Law*, the *Journal of International Dispute Settlement* and *Legal Issues of Economic Integration*.

Dr Bartels has advised on international law and EU law to a number of countries, NGOs, international organizations, and the private sector, and he has written a number of reports for the European Parliament on the EU's trade and human rights policies, fisheries law, and treaty law. In 2011, he conducted a review of the SADC Tribunal, which has resulted in a new Protocol to the SADC Treaty. He is a standing member of the advisory panel of the UK Department for International Development's Trade Advocacy Fund for developing countries and of an advisory panel on trade policy for the Commonwealth Secretariat. He is also a Specialist Advisor to the UK House of Commons Select Committee on International Trade, and advises Linklaters as Senior Counsel on trade law, particularly in the context of Brexit.

### **Dr Natalie Bayfield**

Director of Bayfield Training, a financial modelling training company, for the last fifteen years. Natalie is the leading expert in Real Estate modelling in the UK and Europe. Natalie has considerable experience of building financial models for real estate companies and banks and has also trained and consulted for almost all the major surveying practices in the UK. She has also taught nationals in and from countries in Europe, Africa, the Middle East, and Asia. She was course director for the Investment Property Forum's flagship "Property Applied Spreadsheet & Systems" course, and course director for Euromoney's "Real Estate Financial Modelling in Excel" course. Natalie is the author of Estates Gazette's bestseller "Excel for Surveyors" and "Advanced Excel for Surveyors" as well as contributed to a number of other articles and publications. Natalie graduated from CASS business School in 1998 with a degree in property Investment and finance. She is a member of the Investment Property Forum, Society of Property Researchers, Women in Property, America Real Estate Society, Pacific Rim Real Estate Society and The Institute of Directors.

### **Dr Gemma Burgess MA, MPhil, PhD (Cantab)**

Gemma is a Senior Research Associate at the Cambridge Centre for Housing and Planning Research (CCHPR) and Bye-Fellow of Newnham College. One aspect of her research focuses on land supply and the delivery of housing through the planning system; in particular, she has conducted extensive research on Section 106, the Community Infrastructure Levy and affordable housing. The other strand of her research focuses more broadly on inequality and housing and includes research on housing options for older people, gender inequality and the impact of

community initiatives on public health. From 1 October 2017 Gemma is the University's Junior Proctor.

**Dr Flavio Comim BSc, MSc (USP, Brazil), MPhil and PhD (Cantab)**

Flavio Comim is a Reader in Economics at the Federal University of Rio Grande do Sul, Brazil and an affiliated lecturer at Development Studies and Land Economy at the University of Cambridge, UK. He was senior economist for UNDP Brazil during 2008/2010 when he coordinated Brazil's Human Development Report on 'Human Values'. After that he coordinated Panama's 2014 Human Development Report on 'Childhood and the Youth'. He has also been a consultant for many international organisations such as UNEP, UNESCO, FAO, WHO, UNDP and ILO, carrying out fieldwork in Asia, Africa, Eastern Europe and Latin America. In Cambridge, he is also a research associate of the Von Hugel Institute at St Edmund's College. He has been a Coordinating Leading Author of the Millennium Ecosystem Assessment and has contributed to the Global Environmental Outlook 4. He has published widely in areas such as history of economic thought, economic methodology, development ethics and the capability approach. Among his publications, it could be mentioned the co-edited books "Children and the Capability Approach" (2011) with Mario Biggeri and Jerome Ballet and "Capabilities, Gender, Equality" with Martha Nussbaum. He has published in journals such as the Cambridge Journal of Economics, Review of Social Economy, Journal of International Development, Journal of Economic Methodology, History of Political Economy and Structural Change and Economic Dynamics and Development among others.

**Professor Martin Dixon (Q), MA (Oxon), PhD (Cantab) FRSA**

Professor of the Law of Real Property and Fellow of Queens' College. Honorary Benceher of Lincoln's Inn. He was formerly a Lecturer in Law at Trinity College, Oxford and a legal officer at the United Nations in the Middle East. His interests are in land law (UK and comparative), including land registration, equity and the law of trusts and international law, including aspects of environmental control and the role of the United Nations. He is Visiting Professor of Law at City University, London; an Editor of *Ruoff & Roper, The Law of Registered Conveyancing*; and the General Editor of *The Conveyancer & Property Lawyer*.

**Dr Shailaja Fennell (JE), BA, MA, MPhil (Delhi), MPhil, PhD (Cantab)**

University Lecturer in Development Studies and Fellow of Jesus College. Her past research work has examined the long term trends in agriculture in China and India at the sub national level, with a specific focus on the impact of gendered social norms and ethnic group interests on the contribution of households and communities. Her current research examines the manner in which economic and social reforms are transmitted via rules and norms at global, national local levels through the multiple lenses of class, gender and ethnicity. She is a principal investigator in a five year DFID research consortium on Improving the Outcomes of Education for Pro-Poor Development: Breaking the Cycle of Deprivation where she is researching the impact of partnerships on the provision of education for the poor.

**Dr Franz Fuerst, BSc, MSc, MA, PhD**

Reader in Housing and Real Estate Finance, CULS Fellow, Director of Studies and Fellow Commoner at Trinity Hall. Previous academic posts include Reader in Real Estate Economics at the University of Reading and Research Associate at the City University of New York. Outside of academia, he has worked for BNP Paribas Real Estate, where he was responsible for market research, forecasting and valuation services. Dr Fuerst is the principal author of several widely cited and award-winning studies on the pricing of sustainable features in a number of international

commercial and residential markets. He is also a fellow of the THRIVE Research Hub at the University of Melbourne, Australia. Dr Fuerst serves as Co-Editor of *Spatial Economic Analysis* and is Principal Investigator in a number of ongoing research projects, for example in the EU Horizon 2020 programme. His expertise and research interests are generally in the area of green real estate economics, financial analysis of sustainable investments, portfolio and risk management, real estate market forecasting and spatial economics.

**Dr Ksenia Gerasimova, BA (Hons), MPhil, PhD (Cantab)**

Affiliated Lecturer in the Centre of Development Studies and Research Associate in Social and Biological Studies in the University of Cambridge.

Dr Gerasimova has worked with Population Council, Council of Europe, IFRC (International Federation of Red Cross and Red Crescent), UNRISD (United Nations Research Institute of Social Development), governments and NGOs. Her research interests are management of natural resources, agriculture, the role of science and civil society. She is a member of the Cambridge University Strategic Initiative on Food Security and organises academic and public events on this topic.

Dr Gerasimova is an author of several academic articles in peer reviewed journals, book chapters and policy briefs on the role of biotechnology science in public policy. In April 2017 Routledge will publish her monograph 'NGOs Discourses in the Debates on Genetically Modified Crops'.

**Dr Markus Gehring (Faculty of Law) J.S.D. (Yale), LL.M. (Yale), Dr jur. (Hamburg), MA (Cantab)**

Dr Markus Gehring is an Expert in the Centre for European Legal Studies (CELS), Fellow and Director of Studies in Law at Hughes and a Fellow of the Lauterpacht Centre for International Law. Before joining the Law Faculty as University Lecturer, he served for two years as Tutor in Sustainable Development Law, he was also Fellow in Law at Robinson College 2005-2012. He has been a Visiting Professor in several law faculties around the world and held a Jean Monnet Research Chair *ad personam* in Sustainable Development Law at the University of Ottawa Law Faculty in Canada. In his former department at Cambridge, Politics and International Studies (POLIS), he serves as affiliated Lecturer in European and International Law and Senior Research Associate in the Centre for Rising Powers. He is also an affiliated Lecturer in the Department of Land Economy, a Founding Fellow of the Centre for Environment, Energy and Natural Resources Governance (C-EENRG) and an Associate of the Centre for Climate Mitigation Research (4CMR). He holds a J.S.D. and LL.M from Yale and a Dr iur from Hamburg. A member of the Frankfurt/Main and Ontario Bars, he practiced European and international trade law with Cleary Gottlieb in their Brussels office. Prior to joining Robinson College, he was a tutor in Public International Law at University College, Oxford. He serves as Lead Counsel for Sustainable Trade, Investment and Finance Law with the Centre of International Sustainable Development Law (CISDL), based at McGill University. He edits the book series on Implementation of Sustainable Development Treaties with Cambridge University Press and is author of several publications on EU, International and Sustainable Development Law.

**Professor Ian Hodge (HH), BSc (Reading), PhD (London), FRICS**

Professor of Rural Economy and Fellow of Hughes Hall. He came to the University of Cambridge in 1983 and was the Gilbey Lecturer until 2000. Prior to that he lectured in agricultural economics at the Universities of Newcastle and Queensland. Head of Department of Land Economy, 2002-2011. He undertakes research and publishes widely in the areas of rural environmental governance, property institutions, rural development and land use, including books on Rural Employment (with Martin Whitby), Countryside in Trust (with Janet Dwyer), Environmental Economics and the Governance of the Countryside.

**Professor Andreas Kontoleon BA (Athens), MPhil (Cantab), PhD (UCL, London)**

Professor of Environmental Economics and Public Policy.

His areas of research include environmental economics and regulation, micro-econometrics, applied welfare economics, policy evaluation and experimental economics, law and economics and methodological issues in economics. He has worked on numerous research projects funded by major agencies such as the OECD, the World Bank, and the European Commission. He has published on various topics including the value of wildlife species and habitat, the economic appraisal of land use policies in developing countries, the economics of GM foods, as well as papers on conceptual issues from the fields of welfare economics and law and economics issues. His more recent research focuses on using formal policy evaluating techniques (including randomized field experiments) to assess various aid programmes in developing countries (with recent project work in Africa focusing on conservation, livelihood aid and health policies), empirically assessing voluntary environmental agreements (VEAs), exploring the validity of existence values, as well as using lab-based experimental techniques to assess the influence of social norms and networks on the allocation of resources.

**Dr Shaun Larcom B.Comm (Hons) (Melb), MPhil (Cantab), PhD (UCL)**

University Lecturer in Environmental Economics and Policy. He has a particular interest in how institutional interactions can affect environmental and legal outcomes and how people can learn from shocks. Prior to joining Cambridge, he was a lecturer in Environmental Economics and Development at SOAS, University of London. He began his career as an economist at the Australian Treasury where he primarily worked on environmental policy, but was also seconded to work on welfare reform with Indigenous Australians and at the Papua New Guinean Treasury. He has a first class honours degree in economics from the University of Melbourne, a Masters degree from Cambridge and completed his PhD at the Centre of Law and Economics at University College London in 2012 where his thesis examined the law and economics of legal pluralism in Papua New Guinea.

**Dr Emma Lees BA (Oxon), LL.M (Dund), PhD (Cantab)**

Lecturer in Property and Environmental Law in the Department of Land Economy and fellow of Fitzwilliam College. Her research looks at environmental, planning and land law. Her PhD was concerned with the interpretation of environmental criminal law and this has recently been published as a book. Her current main research is looking at environmental controls in land use planning across the European Union, and the governance implications of environmental law in general. In addition to this her current research also includes formalities and registration in land law. She teaches land law, landlord and tenant, and legal research skills and national and comparative environmental law.

**Dr Thies Lindenthal, PhD (Maastricht)**

University Lecturer in Real Estate Finance. Thies' primary research interests are in Real Estate Finance with a focus on long-term property investments, "Big Data" and the financial dynamics of housing markets. He has published in academic journals (Journal of Money, Credit and Banking; Journal of Regional Science and Urban Economics; Journal of Housing Economics, Journal of Real Estate Finance and Economics) and he contributed to text books and popular media. Thies has also acquired and completed commissioned research for the European Commission, ICANN and the Province of Limburg in The Netherlands.

Before joining the department, Thies was a postdoctoral research fellow at the Massachusetts Institute of Technology, where he researched the market for virtual locations like Internet domain names. This new and interdisciplinary research was again published in peer reviewed journals and

led to the first scientific-grade price index for Internet domain names (IDNX). Thies has also served as an expert witness for domain valuation at US courts.

### **Professor Colin Lizieri BA, PhD, FRICS**

Grosvenor Professor of Real Estate Finance and Head of Department. Colin joined the Department in October 2009. Previously he was Professor of Real Estate Finance at the Henley Business School, University of Reading. His research interests focus particularly on modelling commercial real estate markets, international capital flows and on innovation in real estate investment and finance. His book, 'Towers of Capital - office markets and international financial services', published by Wiley-Blackwell, examines the development of office markets in global cities. Colin chaired the World Economic Forum's industry agenda council on the Future of Real Estate and Urbanization and chairs the European Public Real Estate Association's research committee. He has provided expert advice for the EU, the Norwegian Government, the Bank of England, HM Treasury and a wide range of public and private sector clients and has appeared as an expert witness in the Upper Chamber (Lands Tribunal) and the Australian Federal Courts. In 2014 he was awarded the David Ricardo Medal, the American Real Estate Society's highest accolade for academic achievement.

### **Mr Kelvin MacDonald BSc (Hons), FAcSS, FRTPI, MCIH, FRSA**

Senior Fellow. Kelvin has been the Permanent Specialist Adviser on planning policy to the House of Commons' CLG Select Committee and a member of the Department for Communities and Local Government Planning Sounding Board. He is a contracted Examining Inspector for nationally significant infrastructure projects at the Planning Inspectorate. He is a Design Council-CABE Built Environment Expert (BEE) and a Visiting Lecturer at the Department of Architecture and Design at Brighton University. He is on the Editorial Board of 'Town Planning Review'. He was previously the Chief Policy Adviser to the Royal Town Planning Institute and was a Trustee of Shelter and a member of the Shelter Scotland Committee until March 2016. He is now a Member of the Board for Brighton Housing Trust. He was elected to Fellowship of the Academy of Social Sciences in 2015 for his work at the interface between theory and practice. He is a Fellow of the Royal Town Planning Institute and a 'Distinguished Professional' Member of the Chartered Institute of Housing. He is on the 'Planning' magazine list of the 100 most influential people in planning.

### **Mr Nick Mansley**

Nick is executive director of the Real Estate Research Centre in the Department and a fellow of St Edmund's College. He mixes this with a number of non-executive roles and consultancy. He is Chair of the Lord Chancellor's Strategic Investment Board at the Ministry of Justice and is an external industry adviser to the Official Solicitor and Public Trustee. He sits on the investment committee of a fund investing in retail property in the UK (Hunter) and on the UK board of the Urban Land Institute. He is also a trustee of a local charity Eddie's which supports people with learning disabilities. Nick was a non-executive director of the Hansteen Industrial Fund 2 which was sold in 2015 generating a 25%+p.a. IRR to investors. Nick's 25 year executive career spans investment management, strategy and economics. He led Aviva Investors' global multi-manager services building this into a global centre of excellence with over 40 investment professionals across all asset classes with c\$20bn of assets under management and over 30 major external clients. He was also a director of the Aviva Staff Pensions Scheme Money Purchase Committee and a member or chair of investment committees for multi-asset and real estate investments/products. He was previously a member of the Property Executive at Aviva Investors - leading the real estate business (c\$50bn AUM) in a Chief Investment Officer role. Prior to Aviva,

Nick provided strategy, economics and policy consulting/advice for seven years with a consultancy based in Cambridge (part of the PA Consulting group) in which time he co-edited the Cambridge Regional Economic Review. Nick is an enthusiastic triathlete representing GB in duathlon over recent years alongside a number of extreme triathlons.

**Professor Paul McHugh (SID), LLB (Hons) (Wellington), LLM (Saskatchewan), PhD (Cantab)**

Professorial Fellow of Sidney Sussex College. Professor McHugh is a lawyer with particular interest in property and constitutional law (including constitutional history). He has many influential publications in his main research interest of common-law aboriginal rights, constitutional (imperial and colonial) history and historiography. He is recognised as a leading expert on the contemporary legal rights of indigenous peoples in North America and Australasia as well as in the historical development of the law affecting their status and position in these common-law jurisdictions. Citation by courts (most recently and prominently, New Zealand's foreshore and seabed controversy (2003-), also *Takamore v Clark* [2011] NZCA 587; *Ross River Dena Council v A.-G (Canada)* 2012 YKSC 4) and for the defendants in the 'Urewera Four Trial' (2012) (billed as New Zealand's most expensive criminal trial). He has carried out advisory work for several governments and tribal groups in the fields of legal policy-making, contemporary proprietary claims and the resolution of historical land claims. He has also appeared as an expert in trials and major proceedings in New Zealand and Canada. He is working on a new book (2018) 'Unremitting Solitude': Tribes, sovereign compoment and the Early Victorian Imperial Constitution. This is the first of a two-part project. The second book is provisionally entitled Leviathan and Behemoth: The Victorian Imperial Constitution in the Turbulent 1860s.

**Dr Kate Miles (Faculty of Law) B.A., LL.B. (Auck), LL.M. (NYU), Ph.D. (Syd)**

Dr Kate Miles is a Fellow and Lecturer in Law at Gonville and Caius College, Cambridge. Prior to her appointment at Caius, she was a Senior Lecturer in International Law at the Faculty of Law, University of Sydney, specialising in international investment law and international environmental law. She is the author of a monograph published in 2013 (paperback edition published in 2015) in the Cambridge University Press series, Cambridge Studies in International and Comparative Law, entitled: *The Origins of International Investment Law: Empire, Environment and the Safeguarding of Capital*. Dr Miles is a Fellow of the Lauterpacht Centre for International Law, a Fellow of the Cambridge Centre for Environment, Energy and Natural Resource Governance (C-EENRG), and a Research Fellow with the Centre for International Sustainable Development Law (CISDL), Montreal, Canada.

Dr Miles has served on the International Law Association's Study Group on the Role of Soft Law Instruments in International Investment Law and coordinated the international investment law network for the Society of International Economic Law (SIEL). She served as the Deputy Director of the Australian Centre for Climate and Environmental Law, University of Sydney, and acted as a consultant to APEC, the United Nations Conference on Trade and Development (UNCTAD), and the International Development Law Organization (IDLO) on matters related to investor-state arbitration and climate change.

As an undergraduate in law at the University of Auckland, she was the recipient of the Stout Shield for Mooting, the Geoffrey Powell Prize, and the Gary Davies Medal. She was awarded an Australian Postgraduate Award to pursue her doctorate at the University of Sydney on the interrelationship between international investment law and principles of environmental protection. She also practiced for several years in the litigation departments of leading commercial law firms in Auckland and Sydney, including at Allens Arthur Robinson (now Allens Linklaters).

**Dr Tibisay Morgandi, Laurea Magistrale in Giurisprudenza (Catholic University, Milan), MA (IHEID, Geneva), LLM (Harvard), PhD (IHEID, Geneva), Member of the Italian Bar**



Dr. Tibisay Morgandi is Swiss National Science Foundation Post-Doctoral Fellow at the University of Cambridge and a Fellow at the Cambridge Centre for Environment, Energy and Natural Resource Governance (C-EENRG). Her fellowship focuses on the analysis of the body of norms governing energy activities at the international level with a view to identifying emerging principles of energy law. From October 2017, she will be lecturing International Environmental Law in the MPhil at Land Economy and supervising undergraduates in International Law at Trinity Hall.

Dr. Morgandi's research project builds upon her PhD in International Law, which she completed at the Graduate Institute of Geneva in October 2016. Her doctoral dissertation aimed at providing a comprehensive understanding of several hundred inter-State bilateral and plurilateral energy agreements, whose existence, content and legal functioning has, thus far, been overlooked by international legal scholars. The ultimate goal of her thesis was to identify a set of principles of energy governance and describe their interplay with general principles of international law and customary international rules.

Dr. Morgandi holds a Master of Laws from Harvard Law School (2014), a Master's degree in International Law from the Graduate Institute of Geneva (2011) and a Laurea Magistrale in Giurisprudenza (Juris Doctor) from the Catholic University of Milan (2009). She worked as an associate in the public international law group and in the international arbitration group of Freshfields Bruckhaus Deringer LLP (Paris, France). She previously worked in the areas of labour law, insolvency law and domestic arbitration at Caffi Maroncelli & Associati (Bergamo and Milan, Italy). Dr. Morgandi was admitted to the Bar in Italy in 2014. Her native languages are Italian and Spanish. She is fluent in English and French and has a basic knowledge of Arabic (Levantine). Her main research areas are energy law, international environmental law, public international law and international economic law.

#### **Dr Alex Morris**

Alex Morris' background is in economic analyses in provision of health and social care, concentrating on analyses of value for money and also ethical considerations of provision of care. These analyses have broadened into general market behaviour. Interest in how economics applies to real world problems has developed an interest in behavioural economics.

Other interests include social history especially of the development of towns and cities in post industrialised Britain. A major interest focusses on inequalities internationally, also within countries, looking at contributing factors to the persistence of such inequalities. The relationships of factors including demography, history, institutions and trade are an interest.

The effects of inequalities on life expectancy and quality of life and the mechanism of the relationship is a main interest. A main area of teaching includes statistical analyses.

She is the College Lecturer in Land Economy in Downing College.

#### **Dr Nicola Morrison BA (Liverpool), PhD (Strathclyde)**

Dr Nicola Morrison is a University Lecturer, Associate of CCHPR and a Fellow at St Edmunds College. Her research focuses on comparative housing and urban planning, with a particular interest in neighbourhood change and community engagement in housing-related initiatives. At an international level, she has collaborated with a number of European academics on comparative housing and neighbourhood renewal projects, funded by the European Commission, as well as the Nordic-Baltic, German and UK governments. She also advised the Shenzhen municipal government on their affordable housing strategy and worked on an Amnesty International project on housing rights in slums within Accra, Ghana. She is the co-chair of the European Network of Housing Research (ENHR) working group 'Social Housing: institutions, organisations and

governance' that undertakes on-going international collaborative research on the future of not-for-profit housing organisations. She is on the editorial board of the journal *Habitat International*.

**Dr Maria Augusta Paim, LL.M., Ph.D.**

Maria Augusta Paim is Research Associate at the Cambridge Centre for Environment, Energy and Natural Resource Governance (C-EENRG), and Fellow of Newnham College. She holds a PhD (international law) with Distinction at the University of São Paulo and a LL.M. (maritime law) at the University of Southampton (The British Council Chevening Award). Prior to joining the University of Cambridge, she was a Visiting Fellow (international law of the sea) at Queen Mary, University of London, where she has also been invited to be a guest speaker on the International Environmental Law courses at both undergraduate and postgraduate levels. She practiced as an advocate for a decade in a renowned law firm in São Paulo, where she gained in depth experience in dispute resolution, primarily in the areas of energy law and general commercial law. As part of the BRIDGE: Building Resilience In a Dynamic Global Economy Project, directed by Professor Jorge Viñuales (a UK-Brazil collaboration funded by the Newton Funds/ESRC), she is contributing at the multidisciplinary study about improving governance of the Brazilian Water-Energy-Food Nexus in the context of the climate change strategies. Her main research areas are public international law, international law of the sea, international environmental law and energy law.

**Dr Kanak Patel (M), BSc (London), MA, PhD (Essex)**

Fellow and Director of Studies in Economics and Land Economy at Magdalene College, and Lecturer in Property Finance. She was elected President of the Asian Real Estate Society (2003-2004) and President-Elect (2002-2003). She is the Co-founder of Cambridge-Maastricht Symposium and Cambridge-UNC Charlotte Symposium on Real Estate Risk Management. Since 2001 she has been a Co-Editor of the Special Issues, *Journal of Real Estate Finance & Investment*. She is a member of Board of Asian Real Estate Society, member of Board of International Real Estate Society, member of Board of Centre for Urban and Real Estate Management, member of Jury of Best Practice European Real Estate Association. Her research and teaching interests include modelling default and credit risk, commercial and residential mortgage loan portfolio risk analysis, property derivatives, real estate fund valuation and portfolio risk analysis, real options in real estate, real estate cycles.

**Dr Pablo Salas BEng, MEng (Electrical Engineering, University of Chile), MSc (Economics, University of Hamburg), PhD (University of Cambridge)**

Pablo Salas is an Economist and Electrical Engineer by background, currently working as a Research Associate at the Cambridge Centre for Environment, Energy and Natural Resource Governance (C-EENRG), part of the Land Economy Department of the University of Cambridge. Pablo's research examines the interactions among energy, environmental and economic systems as these can be used to improve global strategies for climate change risk reduction and sustainable economic development. As part of his PhD studies, Pablo analysed global scenarios of future technology and energy use, using a novel modelling framework of technology substitution dynamics, based on natural selection, competition and learning. Working with the International Outreach Programme of Cambridge Enterprise (the commercialisation arm of the University of Cambridge), Pablo has been supporting institutions engaged in sustainable innovation and tech transfer. Formerly, Pablo worked in the design and development of large scale engineering systems in Latin America.

**Yvonne Salmon MA (Cantab) M Res FRSA FRGS FRAI**

Affiliated University Lecturer, Teaching Associate, Department of Land Economy; Affiliated University Lecturer, Faculty of Law.

Yvonne's research interests are in comparative public and private law as well as law and economics. She joined the Land Economy Department as a supervisor in 2008. She became an affiliated lecturer and course coordinator in 2009. She coordinates Paper 9 (Private Law) and Paper 12 (Law and Economics). She is director of the Alchemical Landscape Research Group (CRASSH) which explores legal, political and cultural aspects of space, and chairs the Cambridge University Counterculture Research Group. She was formerly convener of the CRASSH Screen Media Group and is a member of the English Faculty. In 2016 she was nominated for the Vice-Chancellor's Public Engagement with Research Award. She has authored academic articles, translations and book contributions in a number of fields including tort law, comparative law, EU law, anti-discrimination law, human rights, international humanitarian law, comparative studies of cultural and legal history. Recent publications include a book contribution on French legal development in the European Legal Development Series (Cambridge University Press). Forthcoming publications include the LeDocte four language law dictionary. Yvonne is Fellow of the Royal Society of Arts, Fellow of the Royal Geographical Society, Fellow of the Royal Anthropological Institute, Member of Pen International. With regard to legal practice, she has worked for the International Committee of the Red Cross and European Union institutions and was elected to the Executive Committee of the Scottish Human Rights Centre. She has also worked extensively with Judge Professor Hans van Houtte on international commercial arbitration matters including ICSID cases. She was a Law Fellow at Lucy Cavendish College, Cambridge, Preceptor at Corpus Christi College, Cambridge and has been a researcher at Cambridge University Law Faculty, a member of Metro Institute, University of Maastricht Law Faculty and researcher at the European University Institute, Florence. She was on the editorial board of *Masks*, a journal of law and theatre (University of British Columbia). She has worked for the Institute of International Commercial Law, Pace, New York where she continues to be an Associate.

### **Professor William Seabrooke BSc, PhD (Reading)**

Affiliated Lecturer, formerly: Fellow of the Royal Institution of Chartered Surveyors; Fellow of the Hong Kong Institute of Surveyors; Honorary Member of the Investment Property Forum: Professor of Real Estate at the Hong Kong Polytechnic University where he was Director of the Research Centre in Construction and Real Estate Economics; Professor of Land Economy and Head of the Department of Land and Construction Management at Portsmouth University. Currently; Visiting professor at the Royal Agricultural University; Managing Director, Cambridge International Land Institute. Current primary research interest; cross-cultural investment in real estate assets.

### **Dr Elisabete Silva BA, MA (Lisbon), PhD (Massachusetts). MRTPI**

University Reader in Spatial Planning and a Fellow and a Director of Studies of Robinson College. Her main subject areas of her research.

include: land use change, transport and spatial plans and policy, the use of Geographic Information Systems (GIS), Spatial Analysis, Geo-Computation and soft-AI, and New Technologies in Planning. Key research interests are centred on the application of new technologies to spatial planning in particular city and metropolitan dynamic modelling through time. Dr. Silva has a research track record of 25+ years, both at the public and private sector. She is the co-author of the Ashgate book "A planners' encounter with complexity" (2010); The "Routledge Handbook of Planning Research Methods" (2014); "Comprehensive Geographic Information Systems, vol. 3" (Elsevier, 2016).

**Professor Peter Tyler (CTH), BA (Lancaster), MA (Can tab,) MSc (Reading), PhD (Can tab), Cass. MRTPI, FRICS**

Peter Tyler is a Professor in urban and regional economics in the Department of Land Economy, University of Cambridge and a Fellow at St. Catharine's College. He has an extensive track record in undertaking research with a particular emphasis on the evaluation of public policy. He has been a Project Director for over seventy major research projects for Government, many involving the evaluation of public policy resulting in the publication of forty research monographs of which twenty-four have been of book length. Besides his work in the United Kingdom for HM Government he has also undertaken research for the European Commission, the Organisation for Economic Co-operation and Development on urban, regional, industrial and evaluation policy. He has been an Expert Advisor to the OECD, European Commission and HM Government and an expert advisor to UN Habitat III. He was a Programme Leader for the Cambridge MIT initiative and is a Policy Fellow at the Cambridge Centre for Science and Policy.

**Professor Jorge E. Viñuales, BA, MA (HEI), BA, MA (Geneva), LL.B (Freiburg), LL.B (Buenos Aires), LL.M. (Harvard), PhD (Sciences Po, Paris)**

Jorge E. Viñuales holds the Harold Samuel Chair of Law and Environmental Policy at the University of Cambridge and is the founder and former Director of the Cambridge Centre for Environment, Energy and Natural Resource Governance (C-EENRG). He is also the Chairman of the Compliance Committee of the UNENCE/WHO-Europe Protocol on Water and Health, and Of Counsel with Lalive. Prior to joining Cambridge, he was the Pictet Chair of International Environmental Law at the Graduate Institute, Geneva, where he keeps a limited affiliation as Adjunct Professor of Public International Law. In 2016, he was elected Director-General of the Latin-American Society of International Law.

He has held visiting positions in different academic institutions around the world, including the Graduate Institute, Geneva, the Universidad Autónoma de Madrid, the Università di Roma La Sapienza, the European University Institute, the Universidade de São Paulo or Harvard Law School, among others. He has also been invited to give lectures at the UN Regional Courses of International Law (General Introduction to International Law, 2016) or the Courses of International Law of the Organization of American States (Climate Change Law, 2009; International Environmental Law, 2013).

Professor Viñuales has published widely in his specialty areas, most recently his books *The Rio Declaration on Environment and Development. A Commentary* (Oxford University Press, 2015), *International Environmental Law* (Cambridge University Press, 2015, 2nd edn forthcoming in 2018, with P.-M. Dupuy), *The Foundations of International Investment Law* (Oxford University Press, 2014, co-edited with Z. Douglas and J. Pauwelyn), *Foreign Investment and the Environment in International Law* (Cambridge University Press, 2012), and *Diplomatic and Judicial Means of Dispute Settlement* (Martinus Nijhoff, 2012, co-edited with L. Boisson de Chazournes and M. G. Kohen).

He has also wide experience as a practitioner, both in an advisory and a litigation context. He has served as arbitrator, counsel, expert and, earlier in his career, as secretary of arbitration tribunals. He regularly advises companies, governments, international organisations or major NGOs on different matters of environmental law, investment law, human rights, maritime delimitation and public international law at large.

Professor Viñuales was educated in France (Doctorat - Sciences Po, Paris), the United States (LL.M. - Harvard Law School), Switzerland (Licence and Diplôme d'études approfondies in international relations - HEI; liz jur - Universität Freiburg; Licence and Diplôme d'études approfondies in political science - Université de Genève), and Argentina (Abogado - UNICEN). His native language is Spanish and he is fluent in French, English and Italian.

**Mrs Sarah Whitney BSc (Economics & Politics, Bristol), ACA**

Affiliated Lecturer. Sarah is a chartered accountant by training, and moved into investment banking on qualification, where she specialised in corporate finance. Sarah was previously head of Government and Infrastructure at CB Richard Ellis, where she advised local and national governments, developers and funds on real estate finance, regeneration and infrastructure related issues. Her principal interests are the public/private funding of infrastructure and the role of public funding in the promotion of economic growth. She speaks and writes on economic, infrastructure and development related matters. Sarah is a member of the British Property Federation's Regeneration & Development Committee.

## MPhil Programmes 2017-2018

The Department currently offers five MPhil programmes. The special regulations for each MPhil programme determine which modules students must take, and those that they may take in order to satisfy their quota of optional papers. Summaries of the compulsory and optional elements in each MPhil programme for the current year are set out in the following pages. All papers are offered on a modular basis, each module lasting one term. The regulations do not allow for students to take modules which have not been formally approved by the Degree Committee in advance. Detailed overviews for each module are also set out later in this *Handbook*.

### Module choices

Students on the taught MPhil courses in Environmental Policy, Planning, Growth and Regeneration and Real Estate Finance as well as the MPhil in Land Economy Research will be asked to complete an MPhil Module Choices Form indicating which modules they intend to take. Students on the MPhil in Land Economy Research will be asked to indicate which Land Economy modules they wish to take, as well as their six chosen SSRMC modules.

**Absolutely no changes can be made after final dates.** Choices are subject to formal approval by the Degree Committee. Modules may be withdrawn if there is not sufficient demand. Availability of modules to individuals will be subject to prerequisite modules specified below, and timetabling constraints.

### Module prerequisites

The Degree Committee has agreed the following prerequisites for Lent Term modules:

#### ***Lent Module Prerequisite***

All students wishing to take RM02 must take RM01 in the Michaelmas Term.

## MPhil in Environmental Policy

### Introduction

The MPhil in Environmental Policy provides advanced training in environmental economics, environmental law and quantitative/qualitative methods designed to give you a solid grounding in the concepts and theories that shape environmental policy.

The foundations are laid in two compulsory pathway core modules which are taken over the Michaelmas and the Lent Terms: International Environmental Law (EP01) and Environmental economics and; policy (EP02). There is also a compulsory Research Methods (RM01) module taught in Michaelmas Term and the Dissertation, Research Design and Structure (DRDS) module (that runs over the course of the MPhil).

The MPhil also allows you to tailor your course of study to your own interests and to emphasise the legal or the economic aspects of environmental policy. This is made possible through the selection of modules in Michaelmas and Lent Terms as well as through your choice of the dissertation topic.

### Course director

The Director for the MPhil in Environmental Policy is Dr Shaun Larcom. Dr Larcom is available to discuss with students issues specific to the Environmental Policy programme. Questions relating to enrolment matters, continuation to the PhD programme or the general administration of the postgraduate programmes should be referred to the Graduate Co-ordinator in the first instance.

### Course structure

The MPhil in Environmental Policy is modular and the examination consists of 10 units. The core pathway modules (Environmental Economics and International Environmental Law) count as 2 units each. The Research Methods module counts as 1 unit. The Dissertation, Research Design and Structure module counts as 2 units. This allows students to choose 3 optional modules (1 in Michaelmas Term and 2 in Lent Term). Each optional module counts as 1 unit.

### Compulsory modules

EP01 International environmental law (Michaelmas and Lent Term) **(2 units)**

EP02 Environmental economics and policy (Michaelmas and Lent Term) **(2 units)**

RM01 Mixed research methods (Michaelmas Term) **(1 unit)**

Dissertation, Research Design, and Structure (Michaelmas Term)

### Optional modules

Students are required to choose **1 optional module in Michaelmas Term** (examined by coursework) and **2 optional modules in Lent Term** (examined by examination). The optional modules are as follows:

RM02 Further topics in quantitative methods (Lent Term) **(1 unit)**

EP03 Environmental values (Michaelmas Term) **(1 unit)**

EP06 Energy and climate change (Lent Term) **(1 unit)**

EP07 National, comparative and european environmental law and policy (Lent Term) **(1 unit)**

EP08 Comparative environmental policy (Michaelmas Term) **(1 unit)**

PGR03 Spatial economics (Lent term) **(1 unit)**

PGR04 Institutions and development I (Michaelmas Term) **(1 unit)**

PGR05 Institutions and development II (Lent Term) **(1 unit)**  
RE03 Real estate development process (Lent Term) **(1 unit)**  
RE04 The macroeconomy and housing (Michaelmas Term) **(1 unit)**

Module outlines are given in the next section of this *Handbook*.

### **Dissertation**

The *Dissertation, Research Design and Structure* (DRDS) module is examined by a presentation in the Lent Term and a detailed research proposal (submitted in April) worth 15% of the mark and the dissertation itself will be worth the remaining 85%. The module is worth two units or 20 percent of the total marks of the degree. For the timeline of the DRDS module see the Dissertation section.

Candidates for the MPhil in Environmental Policy are required to submit a dissertation of between 10,000 to 12,000 words by **Monday 16 July 2018, no later than 4pm**. The Dissertation should be submitted in both electronic and hard copy (see *The Dissertation*). Late submission will incur penalties.

Throughout the course, candidates are required to submit the following documents to the Graduate Co-ordinator.

A provisional title along with a 200 word outline of the proposed topic must be submitted by **Thursday 2 November 2017**.

A dissertation outline (2 pages) and title, approved by the supervisor, must be submitted by **Monday 29 January 2018**.

Confirmed titles, together with an approved research proposal (3 pages) must be submitted by **Friday 27 April 2018. Absolutely no changes to titles are permitted after this date.**

You are required to remain in residence in Cambridge until the day of submission of your thesis and submission of your thesis must be by you in person. Consequently, you should not arrange or accept any commitments outside Cambridge before this date. In particular, you should not make arrangements to travel abroad before this date. In exceptional circumstances, you may be given permission to submit early. This must be with the prior agreement of the Director of the Graduate Programme and with the agreement of your supervisor. Permission is not always given and where it is given, you will have to accept that early submission may have a detrimental effect on the quality of your work.



# MPhil in Planning, Growth and Regeneration

## Introduction

The MPhil in Planning, Growth and Regeneration provides relevant skills to professionals involved in managing local economic growth and regeneration, regulating land use, undertaking strategic planning and who seek an international perspective.

In the United Kingdom moves to devolved government and decision taking at the regional and local level are generating an increased requirement for well trained professionals who are capable of providing the management skills required. Across Europe economic integration is emphasising the need for Member States to consider how those involved in urban and regional government can tackle the spatial disparities in economic growth and development that have been such an entrenched feature of the last twenty years. Moreover, the increased focus by government on how to ensure more geographical balance in development is not just a European phenomenon. In the Far East and North America similar forces are at work and this is reinforcing the view that countries have much to gain by sharing experience.

The implementation of spatial policies to manage the process of growth requires professionals with a multidisciplinary skill base and an international perspective on best practice.

## Course director

The Course Director for the MPhil in Planning, Growth and Regeneration is Dr Elisabete Silva. She is available to discuss with students issues specific to the Planning, Growth and Regeneration programme. Questions relating to enrolment matters, continuation to the PhD programme or the general administration of the postgraduate programmes should be referred to the Graduate Co-ordinator in the first instance.

## Course objectives

The MPhil in Planning, Growth and Regeneration is designed to provide individuals with a skill set that will enable them to be successful spatial planners. It enables them to:

- Understand the factors that lead to variations in growth and development and thus the consequences of imbalances in growth for resource management, land use and the environment. The course emphasises the importance of adopting a multi-disciplinary approach both to understanding the nature of growth and regeneration problems as well as creating successful spatial planning solutions;
- Assess the scope for planning policy intervention to manage growth and decline and identify the opportunities and constraints imposed by economic, social and institutional factors;
- Design efficient and effective spatial planning policies to manage economic, social and environmental change, including enhancing the growth prospects of those locations that are currently experiencing relative decline and attenuating the adverse consequences of growth on those areas that are expanding rapidly;
- Assess alternative approaches towards the implementation of spatial planning processes and policies;
- Evaluate planning policy achievements and monitor and assess the effectiveness of policy initiatives;
- Understand the process of real estate development, and the risks and financing arrangements that drive land use change;

- Understand the process of planning, regulation and development of land, the built environment, and urban and rural areas;
- Understand the determinants and outcomes of these processes across space, both intra- and inter-nationally and their interactions with other environmental resources;
- Address the implications for the environment of landownership, land law and rights, land resources, uses and policy.

The course emphasises the importance of adopting a multidisciplinary approach both to understanding the nature of growth and regeneration problems as well as creating successful policy solutions.

### **Course structure**

The MPhil in Planning, Growth and Regeneration is modular and the examination consists of 10 units. The core pathway modules ('Urban and environmental planning' and 'Urban and housing policy') count as 2 units each. The Research Methods module counts as 1 unit. The Dissertation, Research Design and Structure module counts as 2 units. This allows students to choose 3 optional modules (1 in Michaelmas Term and 2 in Lent Term). Each optional module counts as 1 unit.

### **Compulsory modules**

PGR01 Urban and environmental planning (Michaelmas and Lent Term) **(2 units)**  
 PGR02 Urban and housing policy (Michaelmas and Lent Term) **(2 units)**  
 RM01 Mixed research methods (Michaelmas Term) **(1 unit)**  
 Dissertation, Research Design, and Structure (Michaelmas Term)

### **Optional modules**

RM02 Further topics in quantitative methods (Lent Term) **(1 unit)**  
 EP03 Environmental values (Michaelmas Term) **(1 unit)**  
 EP06 Energy and climate change (Lent Term) **(1 unit)**  
 EP07 National, comparative and european environmental law and policy (Lent Term) **(1 unit)**  
 EP08 Comparative environmental policy (Michaelmas Term) **(1 unit)**  
 PGR03 Spatial economics (Lent term) **(1 unit)**  
 PGR04 Institutions and development I (Michaelmas Term) **(1 unit)**  
 PGR05 Institutions and development II (Lent Term) **(1 unit)**  
 RE03 Real estate development process (Lent Term) **(1 unit)**  
 RE04 The macroeconomy and housing (Michaelmas Term) **(1 unit)**

Module outlines are given in the next section of this *Handbook*.

### **Dissertation**

The *Dissertation, Research Design and Structure* (DRDS) module is examined by a presentation in the Lent Term and a detailed research proposal (submitted in April) worth 15% of the mark and the dissertation itself will be worth the remaining 85%. The module is worth two units or 20 percent of the total marks of the degree. For the timeline of the DRDS module see the Dissertation section.

Candidates for the MPhil in Planning, Growth and Regeneration are required to submit a dissertation of between 10,000 to 12,000 words by **Monday 16 July 2018, no later than 4pm**.

The Dissertation should be submitted in both electronic and hard copy (see *The Dissertation*). Late submission will incur penalties.

Throughout the course, candidates are required to submit the following documents to the Graduate Co-ordinator.

A provisional title along with a 200 word outline of the proposed topic must be submitted by **Thursday 2 November 2017**.

A dissertation outline (2 pages) and title, approved by the supervisor, must be submitted by **Monday 29 January 2018**.

Confirmed titles, together with an approved research proposal (3 pages) must be submitted by **Friday 27 April 2018. Absolutely no changes to titles are permitted after this date.**

You are required to remain in residence in Cambridge until the day of submission of your thesis and submission of your thesis must be by you in person. Consequently, you should not arrange or accept any commitments outside Cambridge before this date. In particular, you should not make arrangements to travel abroad before this date. In exceptional circumstances, you may be given permission to submit early. This must be with the prior agreement of the Director of the Graduate Programme and with the agreement of your supervisor. Permission is not always given and where it is given, you will have to accept that early submission may have a detrimental effect on the quality of your work.

## MPhil in Real Estate Finance

### Introduction

The MPhil in Real Estate Finance was established in the Department of Land Economy in 2001-2002. It is based on advanced research and practice in finance, economics and law as these disciplines relate most closely to commercial real estate markets. The MPhil programme was designed with input from leading international academics and property industry executives. The MPhil in Real Estate Finance is central to the Department's aim to develop Cambridge as the leading centre for real estate finance research and training in Europe and among the leading international real estate finance centres. An important goal of the programme is that graduates will go on to make an important contribution to the commercial property industry, in either a professional or research-orientated capacity.

### Course director

The Director for the MPhil in Real Estate Finance programme is Dr Franz Fuerst. Dr Fuerst is available to discuss with students issues specific to the Real Estate Finance programme. Questions relating to enrolment matters, continuation to the PhD programme or the general administration of the postgraduate programmes should be referred to the Graduate Co-ordinator in the first instance.

### Course structure

The MPhil in Real Estate Finance is modular and the examination consists of 10 units. The core pathway modules (RE01 and RE02) count as 2 units each. The Research Methods module counts as 1 unit. The Dissertation, Research Design and Structure module counts as 2 units. This allows students to choose 3 optional modules (1 in Michaelmas Term and 2 in Lent Term). Each optional module counts as 1 unit

### Compulsory modules

RE01 Corporate finance and real estate (Michaelmas and Lent Term) **(2 units)**  
 RE02 Real estate finance and investment (Michaelmas and Lent Term) **(2 units)**  
 RM01 Mixed research methods (Michaelmas Term) **(1 unit)**  
 Dissertation, Research Design, and Structure (Michaelmas Term)

### Optional modules

RM02 Further topics in quantitative methods (Lent Term) **(1 unit)**  
 EP03 Environmental values (Michaelmas Term) **(1 unit)**  
 EP06 Energy and climate change (Lent Term) **(1 unit)**  
 EP07 National, comparative and european environmental law and policy (Lent Term) **(1 unit)**  
 EP08 Comparative environmental policy (Michaelmas Term) **(1 unit)**  
 PGR03 Spatial economics (Lent term) **(1 unit)**  
 PGR04 Institutions and development I (Michaelmas Term) **(1 unit)**  
 PGR05 Institutions and development II (Lent Term) **(1 unit)**  
 RE03 Real estate development process (Lent Term) **(1 unit)**  
 RE04 The macroeconomy and housing (Michaelmas Term) **(1 unit)**

Module outlines are given in the next section of this *Handbook*.

## Dissertation

The *Dissertation, Research Design and Structure* (DRDS) module is examined by a presentation in the Lent Term and a detailed research proposal (submitted in April) worth 15% of the mark and the dissertation itself will be worth the remaining 85%. The module is worth two units or 20 percent of the total marks of the degree. For the timeline of the DRDS module see the Dissertation section.

Candidates for the MPhil in Real Estate Finance are required to submit a dissertation of between 10,000 to 12,000 words by **Monday 16 July 2018, no later than 4pm**. The Dissertation should be submitted in both electronic and hard copy (see *The Dissertation*). Late submission will incur penalties.

Throughout the course, candidates are required to submit the following documents to the Graduate Co-ordinator.

A provisional title along with a 200 word outline of the proposed topic must be submitted by **Thursday 2 November 2017**.

A dissertation outline (2 pages) and title, approved by the supervisor, must be submitted by **Monday 29 January 2018**.

Confirmed titles, together with an approved research proposal (3 pages) must be submitted by **Friday 27 April 2018. Absolutely no changes to titles are permitted after this date.**

You are required to remain in residence in Cambridge until the day of submission of your thesis and submission of your thesis must be by you in person. Consequently, you should not arrange or accept any commitments outside Cambridge before this date. In particular, you should not make arrangements to travel abroad before this date. In exceptional circumstances, you may be given permission to submit early. This must be with the prior agreement of the Director of the Graduate Programme and with the agreement of your supervisor. Permission is not always given and where it is given, you will have to accept that early submission may have a detrimental effect on the quality of your work.

## Resumé Book

All MPhil REF students have opportunity to add their CV to the 2017-2018 MPhil Resumé Book. This book is distributed widely to leading real estate and financial firms in the UK and worldwide and forms part of our programme of graduate placement activities. If you are interested please contact Sue Tilney via email ([lerefadm@hermes.cam.ac.uk](mailto:lerefadm@hermes.cam.ac.uk)). Sue will be able to provide you with an information pack and assist you throughout the process.

## MPhil in Land Economy Research

### Introduction

The MPhil in Land Economy Research aims to provide students with a broad grounding in social science research methods and apply this in some area of Land Economy. The course provides strong research training through the Social Sciences Research Methods Centre modules. This includes coursework across both quantitative and qualitative research methods and other aspects of research training.

You are required to remain in residence in Cambridge until the day of submission of your dissertation and submission of your dissertation must be by you in person. Consequently, you should not arrange or accept any commitments outside Cambridge before this date. In particular, you should not make arrangements to travel abroad before this date. In exceptional circumstances, you may be given permission to submit early. This must be with the prior agreement of the Director of the Graduate Programme and with the agreement of your supervisor. Permission is not always given and where it is given, you will have to accept that early submission may have a detrimental effect on the quality of your work.

### Course Director

The Director for the MPhil in Land Economy Research is Dr Nicky Morrison. Dr Morrison is available to discuss with students issues specific to the Land Economy Research programme. However, candidates should talk to their appointed supervisor in the first instance. Questions relating to enrolment matters, continuation to the PhD programme or the general administration of the postgraduate programmes should be referred to the Graduate Co-ordinator.

### Course structure

In addition to submitting the compulsory dissertation, Land Economy Research candidates are required to satisfactorily complete six SSRMC modules and a further two Land Economy modules of their own choice from the lists outlined below.

Six modules from the Social Sciences Research Methods Centre Training Programme (Michaelmas and Lent Terms). The full list of SSRMC modules:  
<http://www.ssrmc.group.cam.ac.uk/ssrmc-modules/core/full-list>

All LER students are required to complete the SSRMC Skill Check before the Michaelmas term begins in order to gauge their level of prior statistical knowledge. This will help to identify at which level each student should enter the Basic Statistics stream.

Please book within one week of SSRMC induction course.

**12 noon on Friday 20 October 2017** - Preliminary module choices (Michaelmas and Lent terms).

**12 noon on Thursday 2 November 2017** - Final changes to Michaelmas term module choices.

**12 noon on Friday 19 January 2018** - Final changes to Lent term module choices

***Choice of one core or two optional modules to be examined by essay or project in all cases (Michaelmas or Lent)***

PGR01 Urban and environmental planning (Michaelmas and Lent Terms) **(2 units)**

PGR02 Urban and housing policy (Michaelmas and Lent Terms) **(2 units)**

PGR03 Spatial economics (Lent Term) **(1 unit)**  
 PGR04 Institutions and development I (Michaelmas Term) **(1 unit)**  
 PGR05 Institutions and development II (Lent Term) **(1 unit)**  
 EP01 International environmental law (Michaelmas and Lent Terms) **(2 units)**  
 EP02 Environmental economics and policy (Michaelmas and Lent Terms) **(2 units)**  
 EP03 Environmental values (Michaelmas Term) **(1 unit)**  
 EP06 Energy and climate change (Lent Term) **(1 unit)**  
 EP07 National, comparative and european environmental law and policy **(1 unit)**  
 EP08 Comparative environmental policy (Michaelmas Term) **(1 unit)**  
 RE01 Corporate finance and real estate (Michaelmas and Lent Terms) **(2 units)**  
 RE02 Real estate finance and investment (Michaelmas and Lent Terms) **(2 units)**  
 RE03 Real estate development process (Lent Term) **(1 unit)**  
 RE04 The macroeconomy and housing (Michaelmas Term) **(1 unit)**  
 RM01 Mixed research methods (Michaelmas Term) **(1 unit)**  
 RM02 Further topics in quantitative methods (Lent Term) **(1 unit)**  
 Dissertation, Research Design, and Structure (Michaelmas Term)

Further, students must attend the Dissertation, Research Design, and Structure module (Michaelmas and Lent Terms) as part of their dissertation preparation.

Module outlines are given in the next section of this *Handbook*.

**Please note that the timetabling of the SSRMC training programme may mean that some of these modules are not available for those taking Land Economy Research.**

### Assessment

The Land Economy Research MPhil is assessed differently to the other MPhil courses with taught elements. It has its own Examining Scheme which will be posted on the intranet in Michaelmas term. Candidates should familiarise themselves with this scheme and the associated guidance.

There are several components to this course as follows:

**i) Research Methods Essay** **20% of final overall mark**

The research methods essay of 4,000 words is set by the Department. A topic will be set by the candidate's supervisor and will be released to the candidate by administrative staff. Details about the release and submission of this essay will be confirmed to students. See also *Handout and Submission dates*.

**ii) One core or two optional Land Economy modules** **20% of final overall mark**

In all cases the Land Economy modules chosen by the candidate will be examined by project or essay (i.e. not by written exam). Where a candidate opts to take a module normally assessed by written exam the examiners will be asked to provide a separate assignment for the Land Economy Research candidate. Where a module is usually examined in a combination of forms it is also likely that the candidate will be set a separate project. See also *Handout and Submission dates*.

**iii) Dissertation** **60% of final overall mark**

Further details are given below.

**In addition**, Land Economy Research candidates are expected to be assessed (where assessment is available) in each of the six SSRMC modules they take. Details of the required assignments for each module, together with submission deadlines and arrangements are available on the SSRMC website: <http://www.ssrmc.group.cam.ac.uk/>.

### **Dissertation**

The *Dissertation, Research Design and Structure* (DRDS) module is examined by a presentation in the Lent Term and a detailed research proposal (submitted in April) worth 15% of the mark and the dissertation itself will be worth the remaining 85%. The module is worth two units or 20 percent of the total marks of the degree. For the timeline of the DRDS module see the Dissertation section. Students should consult their supervisor which session to attend in weeks 3 and 4 of the DRDS in the Michaelmas Term.

Candidates for the MPhil in Land Economy Research are required to submit a dissertation of between 18,000 to 20,000 words by **Monday 16 July 2018, no later than 4pm**. The Dissertation should be submitted in both electronic and hard copy (see *The Dissertation*). Late submission will incur penalties.

Candidates are required to submit final confirmed titles by **Monday 29 January 2018** and a final research proposal (3-4 pages) to the Graduate Office by **Friday 27 April 2018. Absolutely no changes to titles are permitted after this date.**

### **Oral examination**

The examination shall include an oral examination on the work submitted by the candidate under Regulation 2 and on the more general field of knowledge within which it falls; save that the Examiners may, at their discretion, waive the requirements for an oral examination. Its purpose is to ensure that the work is truly that of the candidate, and to pursue and test arguments which the examiners have found to be unclear or of particular interest. The date and venue of the oral examination is chosen by the examiners. Candidates must ensure that they will be available during September to attend the oral examination and are advised not to make extensive travel arrangements until the viva date has been confirmed. They will be informed of the arrangements by the Graduate Co-ordinator. Every effort is made to ensure that the results of the examination can be notified to candidates by the Board of Graduate Studies early in October. Should there be any delay to an arranged oral examination due to factors such as illness or unexpected absence, then the candidate will be informed of it.



## MPhil in Land Economy by thesis

### Introduction

All 'by thesis' students are required to attend and participate in the Department's Dissertation, Research Design, and Structure modules. You may be exempted from this (by application to the Director of the Graduate Programme) if you can demonstrate previous experience. You are also encouraged to participate in any of the other relevant MPhil modules: please identify yourself to the module co-ordinator. The vital link, however, is with your supervisor. All candidates should therefore make contact with their supervisors as soon as possible upon their arrival in Cambridge.

You are required to remain in residence in Cambridge until the day of submission of your thesis and submission of your thesis must be by you in person. Consequently, you should not arrange or accept any commitments outside Cambridge before this date. In particular, you should not make arrangements to travel abroad before this date. In exceptional circumstances, you may be given permission to submit early. This must be with the prior agreement of the Director of the Graduate Programme and with the agreement of your supervisor. Permission is not always given and where it is given, you will have to accept that early submission may have a detrimental effect on the quality of your work.

### Approval of title and appointment of examiners

The subject of your research will have been approved provisionally by the Degree Committee when you were accepted. It can be revised subsequently, but has to be finally approved by the Degree Committee in the Lent Term. The deadline for the submission of final changes to theses titles and final research proposals is no later than 12 noon, **Monday 29 January 2018**. A thesis summary/abstract should be submitted to the Graduate Co-ordinator by no later than 12 noon, **Friday 8 June 2018**. The abstract/summary will be sent to the examiners, when the Degree Committee makes the appointments. It is customary to appoint one internal examiner (who will not be the supervisor, and will not normally have had any direct involvement with the research), and one external examiner who is a recognised expert in the field of the research.

### The word limit and form of the thesis

The word limit for the MPhil in Land Economy is 28,000 - 30,000 words. The prescribed word length is inclusive of the title page, abstract, contents and indexes, acknowledgements and declarations, all notes, footnotes, endnotes, tables and appendices, but it excludes a bibliography. One A4 page consisting largely of statistics or symbols is regarded as equivalent to 250 words. The regulations do not allow for the word limit to be increased or exceeded. As 'by thesis' students are not awarded a percentage mark for their degree, normal word count penalties do not apply. However, a thesis that exceeds the limit will not be examined until its length complies with the prescribed limit.

### Submission of the thesis

Two hard copies of the thesis, along with an electronic copy should be submitted to the Graduate Co-ordinator by **Thursday 9 August 2018, no later than 4pm**. The relevant Departmental Declaration must be bound into both hard copies. For further details, please see *The Dissertation*. As 'by thesis' students are not awarded a percentage mark for their degree, normal late submission penalties do not apply. However, regulations do not permit candidates to extend their submission date without prior consent from the Board (for example on medical grounds). **Students**

**should therefore note that theses that are submitted late will not be accepted for examination.**

### **Examination of the thesis**

The Degree Committee is responsible for the co-ordination of the examination of the thesis.

The MPhil 'by thesis' degree is examined in two parts, first with the scrutiny of the written thesis and then by oral examination. Each examiner will submit to the Degree Committee an independent recommendation and a report on the thesis, which will be written prior to the viva. Following the viva they will submit a further joint report and recommendation. In determining the quality of the work submitted for examination the examiners are required to satisfy themselves that:

- the thesis is clearly written;
- it takes account of previously published work on the subject; and
- it represents a contribution to learning.

Following the examination there are three possible recommendations that may be made by the examiners to the Degree Committee. These are:

The thesis should be:

1. approved for the MPhil Degree without correction.
2. approved for the MPhil Degree subject to corrections.
3. not be approved for the MPhil Degree - outright failure.

Candidates should note that they may therefore be required to make minor amendments and corrections to the thesis as a condition of approval for the degree. However, there is no provision for allowing a candidate to submit a revised thesis in the event that the examiners are not satisfied that it has reached the required standard.

### **Oral examination**

The University's regulations require that an oral examination be held in all cases. Its purpose is to ensure that the work is truly that of the candidate, and to pursue and test arguments which the examiners have found to be unclear or of particular interest. The date and venue of the oral examination is chosen by the examiners. Since the thesis need not be submitted until the end of August, the earliest examination date is normally towards the end of September. Candidates must ensure that they will be available at this time to attend the oral examination and are advised not to make extensive travel arrangements until the viva date has been confirmed. They will be informed of the arrangements by the Graduate Co-ordinator. Every effort is made to ensure that the results of the examination can be notified to candidates by the Board of Graduate Studies early in October. Should there be any delay to an arranged oral examination due to factors such as illness or unexpected absence, then the candidate will be informed of it.

## Modules 2017-2018

An outline for each module offered by the Department in the current year is set out in the following pages. These details are provisional and represent the most recent material to hand at the time of updating. **Teaching methods and final content may be subject to change** depending on the number of students enrolled on the module and the availability of staff. Any changes to a module will be notified to students at the beginning of the relevant term. **Please note that some modules are not available to students on particular MPhil courses.** For a list of the modules available to each particular MPhil course, please consult the course outlines given earlier in this *Handbook*.

### Module

RM01 Mixed research methods  
RM02 Further topics in quantitative methods

EP01 International environmental law  
EP02 Environmental economics and policy  
EP03 Environmental values  
EP06 Energy and climate change  
EP07 National, comparative and european environmental law and policy  
EP08 Comparative environmental policy

PGR01 Urban and environmental planning  
PGR02 Urban and housing policy  
PGR03 Spatial economics  
PGR04 Institutions and development I  
PGR05 Institutions and development II

RE01 Corporate finance and real estate  
RE02 Real estate finance and investment  
RE03 Real estate development process  
RE04 The macroeconomy and housing

### Co-ordinator

Dr Elisabete Silva  
Dr Franz Fuerst

Dr Maria Augusta Paim  
Professor Andreas Kontoleon  
Dr Jonathan Aldred  
Dr Pablo Salas  
Dr Emma Lees

Dr Ksenia Gerasimova

Dr Elisabete Silva  
Dr Nicky Morrison  
Dr Franz Fuerst  
Dr Shailaja Fennell  
Dr Shailaja Fennell

Dr Thies Lindenthal  
Professor Colin Lizieri  
Dr Franz Fuerst  
Professor Philip Arestis

## RM01 Mixed Research Methods

### Multiple Linear Regression and Applications

**Offered:** Michaelmas Term

**Coordinator:** Dr Elisabete A. Silva

**Lecturer:** Dr Elisabete a Silva and Dr. Zilong Wang

**Supervisor:** For RM01 (Core and option A): Dr. Ziyong Wang, Dr. Ling Li, Dr. Camilo C. Morales  
For RM01 (Core and option B): Dr. Alex Morris, Mr. Felix Agyemanh, Dr. Camilo C. Morales

#### Introduction

It is the department policy that all M.Phil students in the department should acquire basic stats knowledge, with that goal the first 4 weeks are common to all M.Phil students (REF, EP, PGR). After those initial 4 week of the term the students should select one of two option: continue with their knowledge of stats/math (Option A), or opt for GIS and Spatial Analysis (Option B).

<b>Week 1 to week 4</b> of Michaelmas Term <b>Core Stats</b> for all REF, EP, PGR students Joint classes with all REF, EP, PGR in the same class room	
Week 5 to 8 – <b>Option A</b> Continuation of Stats/math	Week 5 to 8 – <b>Option B</b> GIS and Spatial Analysis

#### Overall aims for RM01:

The objective of this module is to introduce the fundamental concepts and processes in doing quantitative research. Its particular features are accessibility for all students irrespective of their academic background, focus on applicability of tools and methods, and relevance to all the postgraduate programmes in the Department.

#### Aims

- To provide the postgraduate students with an understanding of the purpose, nature and conduct of quantitative research in the context of issues and topics of relevance to their field of study.
- To ensure that students have sufficient understanding of linear regression techniques of to enable them to plan, develop and carry out their own research projects as well as being able to appraise the research methods, analyses and outputs of other researchers.
- To introduce the students to multiple linear regression techniques and tools for decision-making and statistical analysis.

#### For those focusing on Core + Option A

#### Keyword Syllabus

##### Topic 1: Introduction & Review of Basic Statistics

Population; Sample; Statistical inference; Hypothesis testing; Significance level.

Topic 2: Introduction to Linear Regression Analysis

Ordinary least squares (OLS); Intercept; Slope; Parameters; Estimates; t test;  $R^2$

Topic 3: Multiple Linear Regression - Introduction

F test; Adjusted R square; Interpret the computer outputs; Variable selection.

Topic 4: Multiple Linear Regression – Applications

Hypothesis testing in multiple linear regressions; Functional form; Functional form; Hedonic pricing models.

Topic 5: Multiple Linear Regression - Assumptions

OLS Assumptions; Heteroskedasticity; Autocorrelation; GLS; The D–W test.

Topic 6: Using Dummy Variables in Regression Models – Introduction

The concept of dummy variables; Creating dummy variables using Excel and SPSS; Partial F test.

Topic 7: Using Dummy Variables in Regression Models – Applications

Intercept dummy variables; Slope dummy variables; The Chow test; Predictive failure test; Omitted variable bias; Misspecification bias, RESET test.

Topic 8: Discriminant Analysis and Logistic Regression

Qualitative dependent variables; Discriminant score; Estimation sample and validation sample; logistic function; maximum likelihood estimation.

**For those focusing on Core + Option B**

Lecture/Topic 1: Introduction & Review of Basic Statistics (Dr. Zilong Wang)

Population; Sample; Statistical inference; Hypothesis testing; Significance level.

Lecture/Topic 2: Introduction to Linear Regression Analysis (Dr. Zilong Wang)

Ordinary least squares (OLS); Intercept; Slope; Parameters; Estimates; t test;  $R^2$

Lecture/Topic 3: Multiple Linear Regression - Introduction (Dr. Zilong Wang)

F test; Adjusted R square; Interpret the computer outputs; Variable selection.

Lecture/Topic 4: Multiple Linear Regression – Applications (Dr. Zilong Wang)

Hypothesis testing in multiple linear regressions; Functional form; Functional form; Hedonic pricing models.

Lecture/Topic 5 – GIS: the basics (Dr. Elisabete Silva)

What is GI and GIS?; Advantages of using GI(S); Spatial elements and spatial relation; ARCGIS

Lecture/Topic 6 - The vector and raster data models (Dr. Elisabete Silva)

Opening data, viewing/querying data; Importing data; editing data; spatial operations; metadata

Lecture/Topic 7 – Spatial analysis (Dr. Elisabete Silva)

Collecting data; adding new data to a database, spatial operations; generating new shape files; adding new statistical data to the database; merging data; spatial joins

Lecture/Topic 8 - Presenting data (Dr. Elisabete Silva)

*The layout, creating a map to be printed or converting and printing data – good practice on building layouts (best options when including scales, legends, north arrows, pictures).*

### Teaching Method: for Core + Option A

The course will have a 2 hours lecture and case discussion combined session per week. Cases taken from real-world situations will be used for analysis. The use of Microsoft Excel, and EViews for statistical analysis will be discussed and demonstrated throughout the course. Students are encouraged to bring their own laptops to the class to practice with examples and exercises. Data for class exercises and examples will be available online before each session.

There will be four fortnightly supervisions that cover lecture reviews, practice exercises, and statistical software usages. Supervision questions will be distributed in advance, and students are expected to submit answers to the supervisor's deadline and participate in discussion during the supervision itself.

The use of calculator may be useful for assignment, class exercises and examination. Students are encouraged to obtain one of the approved calculators (CASIO FX115; CASIO FX570; CASIO FX991, or the Hewlett Packard HP10BII).

### Teaching Method: for Core + Option B

There is a series of eight lectures covering the topics set out above. Students are expected to attend all the lectures. Seminars will also be offered (via module of through the Land Economy Seminar Series)

### Supervisions: supervisions will be offered in groups of 6 students maximum.

<b>Core Supervisions</b> <b>2 supervisions offered by:</b> Dr. Ziyou Wang and Dr. Ling Li	<b>Core Supervisions</b> <b>2 supervisions offered by:</b> Dr. Alex Morris and Mr. Felix Agyemanh
<b>Option A</b> <b>2 supervisions offered by:</b> Dr. Ziyou Wang and Dr. Ling Li	<b>Option B</b> <b>2 supervisions offered by:</b> Mr. Felix Agyemanh

### Assessment

The course will be assessed by a 4,000 word project.

Students taking **Core + option A** will have a dedicated project.

Students taking **Core + option B** will also have a dedicated project.

### Readings : Core + Option A

#### Essential:

- Dielman T. E. (2005), *Applied Regression Analysis: A Second Course in Business and Economic Statistics*, 4<sup>th</sup> ed. Duxbury Press. ISBN: 053446548X
- Field, A. (2005), *Discovering Statistics Using SPSS (Introducing Statistical Methods Series)*. London: Sage. ISBN: 0761944524.
- Schmuller, J. (2005), *Statistical Analysis with Excel for Dummies*. Hoboken, NJ: Wiley. ISBN: 0764575945.

#### Supplementary:

- Hill, R. C., W. E. Griffiths, and G. G. Judge (2001), *Undergraduate Econometrics*, 2<sup>nd</sup> ed. New York : John Wiley. ISBN: 0471331848.
- Hill, R. C., W. E. Griffiths, and G. C. Lim (2007), *Principles of Econometrics*, 4<sup>nd</sup> ed. New York : John Wiley. ISBN: 0471723606.

- Moore, D. S. (2006), *The Basic Practice of Statistics*, 4<sup>th</sup> ed. New York: W.H. Freeman. ISBN: 071677478X.
- Wood, M. (2003), *Making Sense of Statistics: a Non-mathematical Approach*. Basingstoke: Palgrave Macmillan. ISBN: 1403901074.

### **Readings : Core + Option A**

#### **Essential:**

- Babbie, E. (2012). *The Practice of Social Research*. (13th Ed.) Wadsworth, Cengage Learning
- Moore, D. S. and McCabe, G. P. (2007) *Introduction to the Practice of Statistics* (6th Ed.). W. H. Freeman & Company.
- Silva, E.A., P. Healey, N. Harris and Pieter Van den Broeck (2014/2015) *The Routledge Handbook of Planning Research Methods*. Routledge. 530 pages.
- Silva, E.A. (2013) *The power of Geographic Information in Information and Communication Technologies*. *Urban Design and Planning*. 166 (1): 1-2.

#### Supplementary:

- Crampton, J. (2010) *Mapping*. Wiley-Blackwell.
- Demers, M. (2009) *Fundamentals of Geographic information systems*. (4th ed.) Wiley
- Geertman, S.; W. Reinhardt and F. Toppen (2011) *Advancing Information Science for a Changing world*. Springer
- O'Sullivan, D and D. Unwin (2010) *Geographic Information Analysis*. (2nd Ed.) Wiley.
- Ott, R.L. and M. Longnecker (2010). *An Introduction to Statistical Methods and Data Analysis*. (6th Ed.) Brooks Cole, Cengage Learning.
- Rice, J. A. (2007) *Mathematical Statistics and Data Analysis*. Thomson, Brooks Cole
- Silva, E. A. and N. Wu (2012) *Surveying Models in Urban Land Studies*. *Journal of Planning Literature*. 27: 139-152.
- Silva, E. A. (2011) *Data, models and land planning – Europe's data-led policy*. *Journal of Urban Design and Planning*. 164(4): 195-196.
- Wilcox, R.R. (2009) *Basic Statistics: Understanding Conventional Methods and Modern Insights*. Oxford University Press.

## RM02 Further topics in quantitative methods

**Offered:** Lent Term  
**Coordinator:** Dr Franz Fuerst, Dr Thies Lindenthal  
**Lecturer:** TBC

### Introduction

This module has been designed to introduce students to an extended range of quantitative techniques. The main objective of this course is to prepare students to complete an independent research project in a robust manner. This objective requires two main areas of focus, i) the critical appraisal of statistical results and ii) the competent production of statistical results. This course will work towards both of these areas. The selection of topics covered is informed by techniques commonly employed in empirical research projects. The course does not aim to provide a fully comprehensive econometric treatment of all topics, but it aims to impart sufficient understanding to enable the independent development of refinements or extensions of techniques that students may wish to apply in their own empirical research.

### Aims of the course

1. Enable students to critically assess the output from advanced econometric models, especially with regards to internal and external validity of findings.
2. Enable students to appropriately employ the econometric tools required to produce robust empirical results, ensuring validity of inference and identification.

### Aims of the supervisions

1. Enable students to familiarise themselves with statistical software packages to conduct an empirical research project.
2. Impart the basic technical knowledge and programming skills required to address empirical research questions of the nature discussed in the lectures.

### Course Outline

Lectures	Title	Keywords
Topic 1	Review of multiple linear regression	Basic concept, OLS estimator, Measures of fit, LS assumptions
Topic 2	Assessing statistical studies	Internal and external validity
Topic 3	Regressions with panel data	Panel data sets, (time) fixed effects, assumptions and inference
Topic 4	Instrumental variables regression	IV model and assumptions, 2SLS, instrument validity
Topic 5	Experiments and quasi-experiments	Causal effects, validity of experiments, quasi-experiments
Topic 6	Introduction to time series analysis	Time series data, forecasting, auto-regressions, non-stationarity
Topic 7	Additional topics in time series regression	Dynamic causal effects, VAR, cointegration
Topic 8	Event studies	Method overview, short/long horizons



Supervisions	Content
Topic 1	Review of multiple linear regression
Topic 2	Regressions with panel data
Topic 3	Instrumental variables regression
Topic 4	Time series analysis

## Reading

The **main textbook** for this course is available in the SPS library:

- James Stock and Mark Watson "Introduction to Econometrics" 3<sup>rd</sup> edition, Pearson Education.

A number of **supplementary textbooks** include:

- Chris Brooks "Introductory Econometrics for Finance" Cambridge University Press.
- William H. Greene "Econometric Analysis" 6<sup>th</sup> Edition, Prentice-Hall.
- Peter Kennedy "A Guide to Econometrics" 5<sup>th</sup> Edition, Blackwell Publishing
- R.L. Thomas "Modern Econometrics: An Introduction" Addison-Wesley

**Additional readings** may be announced during lectures as and when required.

## Teaching arrangements

This course is taught in 8 lectures of 2 hours each. **Lectures** will include information on the theoretical and conceptual background of the topics treated, examples, case studies and applications. In addition, four **supervisions** will be offered to allow students to familiarise themselves with statistical software packages, learn how to use data sources, gain practical experience in conducting empirical research, and obtain feedback on their work.

## Form of Examination

The module will be examined by a 2-hour examination.

## Pre-requisites

All students wishing to take RM02 must take RM01 in the Michaelmas Term.

## Resources

**Stata:** The main statistical package used in the course and in the supervisions. Stata is available on the Land Economy computer network.

## EP01 International environmental law

**Offered:** Michaelmas and Lent Term  
**Coordinator:** Dr Maria Augusta Paim  
**Lecturer:** Dr Maria Augusta Paim, Dr Tibisay Morgandi, Dr Lorand Bartels (Faculty of Law), Dr Markus Gehring (Faculty of Law), Dr Kate Miles (Faculty of Law).

### Introduction

The environmental problems increasingly understood and recognised since the late 1960s have been regulated on the international plane in two main forms. First, a set of broad policies (concepts and principles) have been developed and used as the basis of a now mature branch of international law, i.e. international environmental law. Such policies, which include prevention, precaution, polluter-pays, environmental impact assessment, participation, common but differentiated responsibilities, inter-generational equity or sustainable development, to name but a few, have provided the basis for the adoption of more specific legal regimes tackling particular problems (e.g. marine and freshwater pollution; atmospheric pollution, ozone depletion, climate change; species, habitat and biodiversity protection; chemical and hazardous waste regulation). Second, these policies are being increasingly mainstreamed within the broader body of public international law. The law of environmental protection is not a 'branch' but a 'perspective' increasingly, influencing most areas of international law. From this second angle, it will be examined the new approaches developed to the implementation techniques adopted by environmental treaties (particularly compliance techniques and adjudication) and the influence of environmental considerations on human rights, international humanitarian law, trade law, and investment law.

### Aims

The course provides a thorough graduate-level introduction to international environmental law enabling students either to go into practice or to conduct doctoral research on more specific environmental law questions.

### Assessment

The module will be examined by 4,000 word project in the Lent Term (50% of total mark) and by two-hour written examination in the Easter Term (50% of total mark).

### Part I

#### Outline

Week 1: Foundations I: Evolution and main-features (MAP)  
 Week 2: Foundations II: Prevention-related policies (TM)  
 Week 3: Foundations III: Balance-related policies (TM)  
 Week 4: Substantive regulation I: Oceans and freshwater (MAP)  
 Week 5: Substantive regulation II: Transboundary pollution and ozone depletion (TM)  
 Week 6: Substantive regulation III: Climate change (MAP)  
 Week 7: Substantive regulation IV: Species, habitats and biodiversity (MAP)  
 Week 8: Substantive regulation V: Dangerous substances (TM)

In addition to the lectures, at least two graduate seminars will be organised to introduce students to the practical aspects of international environmental law.

## Reading

**This module is compulsory for Environmental Policy students.** No prior knowledge of law is assumed but students must be willing to read widely in order to acquire sufficient command of public international law.

The textbook for this module is:

Dupuy, P.-M. and J. E. Viñuales, *International Environmental Law* (Cambridge University Press, 2015)

### **Students may also refer to:**

- Birnie, P., A. E. Boyle & C. Redgwell, *International Law and the Environment* (Oxford University Press, 3<sup>rd</sup> ed., 2009)
- Sands, P., J. Peel, A. Fabra and R. MacKenzie, *Principles of International Environmental Law* (Cambridge University Press, 3<sup>rd</sup> ed., 2012)
- Hunter, D., J. Salzman and D. Zaelke, *International Environmental Law and Policy* (New York, Foundation Press, 4<sup>th</sup> ed. 2011).
- Bell, S., D. McGillivray and O. W. Pedersen, *Environmental Law* (Oxford University Press, 8<sup>th</sup> ed., 2013).

### **Recommended to all students:**

- Crawford, J., *Brownlie's Principles of Public International Law* (Oxford University Press, 8<sup>th</sup> ed., 2012), chapters 1 to 4.
- Bodansky, D., J. Brunnee and E. Hey (eds.), *The Oxford Handbook of International Environmental Law* (Oxford University Press, 2007), chapters 2, 14, 15, 16 and 17.
- Viñuales, J. E., 'The Rise and Fall of Sustainable Development' (2013) 22 *Review of European, Comparative and International Environmental Law (RECIEL)* 3-11.
- Viñuales, 'The Rio Declaration on Environment and Development. Preliminary Study', in Viñuales, (ed.), *The Rio Declaration on Environment and Development. A Commentary* (OUP, 2015).

### **Recommended to students requiring further background in public international law:**

- Dixon, M., *Textbook on International Law* (Oxford University Press, 6<sup>th</sup> ed., 2007)
- Clapham, A., *Brierly's Law of Nations: An Introduction to the Role of International Law in International Relations* (Oxford University Press, 2012).

## Organisation of work

Students are expected to retrieve the materials using the different research tools (online and other) available at the University. A presentation on how to access bibliographic resources will be made at the beginning of the Michaelmas term by the officers of the Squire Law Library. In order to facilitate the process the course syllabus provides many internet links to the relevant sources. I will also place some (but not all) materials on Moodle, primarily those that are difficult to retrieve.

## Part II

### Outline

- Week 1: Implementation I: Responsibility and liability (MG)  
Week 2: Implementation II: International adjudication (MG)  
Week 3: Implementation III: Compliance mechanisms (MG)  
Week 4: Influence I: Human rights and the environment (MG)  
Week 5: Influence II: Foreign investment and the environment (KM – recorder lecture from the LLM course on International Investment Law)  
Week 6: Influence III: Trade and the environment (LB)  
Week 7: Influence IV: Trade and the environment (LB)  
Week 8: Influence V: Environmental protection in armed conflict (KM)

### Reading

This part of the course will not follow a single book, but here is a selection of books covering the topics examined in detail:

Stephens, *International Courts and Environmental Protection* (CUP, 2009).

Anton & Shelton, *Environmental Protection and Human Rights* (CUP, 2011).

Austin & Bruch (eds.), *The Environmental Consequences of War* (CUP, 2000).

Gehring & Cordonier-Segger (eds.), *Sustainable Development in World Trade Law* (Kluwer, 2005).

Vranes, *Trade and the Environment* (OUP, 2009).

Lester, Mercurio & Bartels (eds.), *Bilateral and Regional Trade Agreements* (CUP, 2015).

Viñuales, *Foreign Investment and the Environment in International Law* (CUP, 2012).

Miles, *The Origins of International Investment Law* (CUP, 2013)

## EP02 Environmental economics and policy

**Offered:** Michaelmas Terms  
**Coordinator:** Professor Andreas Kontoleon  
**Lecturer(s):** Professor Andreas Kontoleon, Dr Shaun Larcom, Professor Laura Diaz Anadon

### Introduction

Environmental economics as a discipline is concerned with four broad questions. First, what are the economic and institutional causes of environmental problems? Second, how important are these problems economically, that is, in monetary terms? Third, what policies can we design to halt and reverse environmental degradation or even enhance the quality of our natural environment? Lastly, how can we evaluate these policies. This core module gives an introduction and overview to the answers to all of these questions.

The module first introduces the field and its policy challenges. We then explore the question: Why do people pollute or overuse natural resources? This goes some way towards answering the first question above. We shall diagnose environmental problems using the analytical framework of economics. This includes a discussion of the complex interaction between the economic system, specifically markets, and the natural environment. In the second half of the course, we turn to the design and evaluation of environmental regulation and policies. The module covers mostly the microeconomic perspectives on regulation in a variety of policy settings, each characterised by specific constraints.

### Aims

The aims of this module are to:

- outline the scope of environmental economics as a discipline;
- foster your understanding of the economic and institutional causes of environmental problems;
- equip you with knowledge and analytical skills to design and critically evaluate public policies towards the environment;
- explore the application of the theoretical framework of environmental policy to a variety of environmental and resource problems.

### Course outline

Indicative topics covered include:

- Why is there environmental regulation and policy: the economic perspective.
- Fundamental Economic Concepts for Environmental Policy I: Market Failure.
- Fundamental Economic Concepts for Environmental Policy II: Property Rights.
- Elements of the Theory of Environmental Policy I: Pigouvian Approaches.
- Elements of the Theory of Environmental Policy II: Regulatory Measures.
- Elements of the Theory of Environmental Policy III: Property Rights-based Approaches.
- Environmental Policy Under Asymmetric Information.
- Environmental policy under risk and the use of liability rules.
- Environmental regulation and its impact on innovation.
- International Environmental Agreements.

- Valuing Environmental Goods and Services.
- Evaluation of environmental policies.

### **Supervisions**

Topics will be further discussed in supervision classes and seminars. These sessions will discuss specific key papers from the relevant literature or undertake group exercises and debates. Their aim is to provide a deeper understanding of issues covered in the lectures.

The supervisions will also provide study advice and training for the final exam. The number of these sessions is to be determined (approximately four one-hour sessions per teaching Term).

### **Assessment**

The module will be examined through a 48 hour take-home 4,000 word project in the Lent Term (50% of total mark) and by two-hour written examination in the Easter Term (50% of total mark).

### **Literature**

#### **Main textbook**

The recommended principal textbook for this module is:

Kolstad, C.D. *Environmental Economics*. Oxford University Press, 2010 (or previous edition)

The course will follow the structure and content of this textbook fairly closely. There will be reference to additional readings in the lecture to provide additional depth on selected topics.

#### **Further Reading**

Hanley, N., J. Shogren, and B. White *Introduction to Environmental Economics*. OUP 2013 or previous edition).

Hanley, N., J. Shogren, and B. White *Environmental Economics in Theory and Practice*. Palgrave, 2007.

Tietenberg, T. *Environmental and Natural Resource Economics*. 9th (or earlier) edition. Addison Welsey 2011.

Tietenberg, T *Environmental Economics and Policy*, Addison-Wesley, 6th edition, 2009

## EP03 Environmental values

**Offered:** Michaelmas Term  
**Coordinator:** Dr Jonathan Aldred  
**Lecturer(s):** Dr Jonathan Aldred

### Introduction

This module studies the social values, institutions and processes through which society arrives at choices about environmental policy. The practice of environmental valuation has taken up much attention in environmental policy. In conjunction with cost benefit analysis, it offers an apparently attractive methodology to policy-makers seeking to balance competing claims on public funds. It has been applied to numerous aspects of the environment, from air quality to zebras. But it remains a particularly controversial technique, especially when courts of law adopt it as the basis for determining large financial claims. Critiques of valuation range between those aiming for incremental methodology improvements and those rejecting the fundamental assumptions.

This module will examine valuation methods and both incremental and fundamental critiques. However the focus will be on the latter. The past thirty years has seen the emergence of 'ecological economics' at the forefront of these critiques. There are two general features of ecological economics. Firstly, it aims to incorporate more realistic assumptions and models of the environment into economic analysis. Secondly, it takes an explicitly inter-disciplinary approach. However, not all its proponents would share a single framework of assumptions or set of beliefs. In practice, ecological economics tends to be characterised in terms of what it rejects, namely the more restrictive assumptions of neo-classical economics, rather than what it proposes. As a new sub-discipline, its exact content remains unsurprisingly controversial. Thus the emphasis in this module will not be on ecological economics per se, but on how environmental ethics, environmental politics and alternative approaches to environmental economics can help inform environmental valuation and policy decisions. The approach will be to study a number of key concepts and perspectives in depth, rather than attempt a comprehensive survey of several vast fields.

### Aims

The aims of this module are to:

- outline the range of approaches to environmental policy questions;
- analyse some specific topics at the intersection of environmental economics, philosophy and politics;
- provide a survey of mainstream perspectives regarding the economic valuation of the environment;
- explore alternative approaches towards environmental valuation and decision-making.

### Assessment

The module will be assessed through a 4,000-word essay.

### Course Outline

Week 1	Environmental Policy: economic, political and philosophical perspectives	Aspects of Environmental Philosophy
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Week 2	Aspects of Environmental Politics	Environmental Valuation and Cost-Benefit Analysis
Week 3	Sustainability and natural capital	Sustainability and natural capital
Week 4	Discounting and Future Generations	Discounting and Future Generations
Week 5	Valuation methods: Revealed preference	Valuation methods: Expressed preference
Week 6	Problems with Environmental CBA	Problems with Environmental CBA
Week 7	Incommensurability	Alternatives to CBA: Overview
Week 8	Deliberation and Social Choice	Citizens' juries

### Suggested background reading

No previous knowledge of economics is assumed. The course is inter-disciplinary, ranging over economics, politics, and philosophy. A lively and provocative polemic which covers some of the issues:

Ackerman, F. and L. Heinzerling (2004) *Priceless*. New York, Norton.

An introduction to debates at the interface between economics and philosophy, relevant to this course:

Hausman, D. and M. McPherson (2006). *Economic analysis, moral philosophy and public policy*. Cambridge, C.U.P.

Some other political and legal perspectives are introduced in:

M. Adler and E. Posner eds. (2001) *Cost-Benefit Analysis: Legal, Economic and Philosophical Perspectives*. Chicago: Chicago U.P.

N. Carter, (2007) *The Politics of the Environment*. 2nd edition. Cambridge: C.U.P.



## EP06 Energy and Climate Change

**Offered:** Lent term  
**Coordinator:** Dr Pablo Salas  
**Lecturer:** Maria Augusta Paim, Laura Diaz Anadon and Pablo Salas

### Introduction

This course introduces the student to issues related to energy policy in conjunction with greenhouse gas emissions and climate change, focusing specifically on energy related emissions and technology. The aim is to provide an understanding of the wide-ranging cross-disciplinary issues involved in climate change and its mitigation from both an energy and technology perspective, as well as a legal and political standpoint. Current knowledge of global energy resources is explored, renewable and non-renewable, with some energy economics. The student will then be introduced to some concepts of innovation, diffusion and technological change, and their relationship with economics. Climate and energy will then be treated in light of international law and policy: the course will present the international legal climate regime, including its latest developments, and the extent to which energy has moved from being a purely national matter to an object of international regulation. Finally, we will discuss how policy and legal instruments can contribute to moving towards a low-carbon economy.

### Aims

The aims of this course are to:

- Develop a broad overview knowledge of cross-disciplinary issues involved in energy policy and climate change mitigation.
- Develop a technology dynamics and resources based understanding of the challenges involved in a sustainability transition.
- Develop an understanding of the political and legal challenges related to energy and climate change governance.
- Apply this understanding of complex systems for policy and legal analysis.

### Specific topics and methodologies covered

- Global emissions and the climate change problem.
- Understanding the history of energy consumption.
- Energy technologies.
- Understanding energy economics.
- Introduction to technology diffusion and transitions theory.
- Learning-by-doing, innovation, R&D and economic development.
- Introduction to evolutionary economics.
- Building scenarios of energy supply and demand.
- Evolution of the international climate change regime.
- International responses to the energy trilemma.
- Role of law in fostering the energy transition.

### Teaching and learning methods

The course will be predominantly lecture-based. However, taking the view that hands-on exercises enhance learning, some practical work will be undertaken. The practical work might include some

modelling exercises for simulating the impact of policy in the electricity system, and a role-play exercise to simulate climate negotiations.

### **Pre-requisites**

There are no pre-requisites for taking this course. However, the course will build on the knowledge acquired in EP01 (international environmental law) and EP02 (environmental economics and policy).

### **Assessment**

The course will be assessed by a two-hour examination.

### **Course outline**

**Lecture 1:** An inter-disciplinary introduction to energy and climate change

**Lectures 2-3:** Global energy resources and technologies

- History of energy consumption
- Energy technologies: non-renewables
- Energy technologies: renewables
- Quantitative approach to energy resources: non-renewables
- Quantitative approach to energy resources: renewables

**Lecture 4-5:** Energy economics, policy and innovation

- Understanding GDP versus energy consumption
- Resource intensity, carbon intensity, emissions
- Energy demand and economic development
- Energy access and energy poverty
- Technological change and economic growth
- Modelling technological change

**Lecture 6-8:** Energy and climate law and policy

- Understanding the international climate regime
- Energy as an international regulatory object: role and specificities of the international legal framework
- Policy and legal instruments at the service of the sustainability transition: potentials and limitations

### **References and reading list**

- Bäckstrand, K, Lövbrand, E (eds.), (2015) *Research Handbook on Climate Governance*, Edward Elgar.
- Bodansky, Daniel and Brunée, Jutta. (2017) *International Climate Change Law*, Oxford University Press.
- Carlarne, C, Gray K, Tarasofsky R (2016), *The Oxford Handbook of International Climate Change Law*. Oxford University Press.
- Doelle, Meinhard and Bulmer, Jane. (2017), *The Paris Climate Agreement: Analysis and Comments*, Oxford University Press
- Farber D. and Peeters M. (eds.) (2016). *Climate Change Law*. Edgar Elgar.
- Freeman, C., & Louça, F. (2001). *As Time Goes By*. Oxford University Press.
- GEA. (2012). *Global Energy Assessment*. Cambridge University Press.
- Giddens, Anthony. *The Politics of Climate Change* (2011), Polity Press
- Grubb, M. (2014). *Planetary economics*. London, UK: Taylor Francis / Routledge.

- Grubler, A. (1998). *Technology and Global Change*. Cambridge University Press.
- Heffron R. and Little G (eds.) (2016). *Delivering Energy Law and Policy in the EU and US: A Reader*. Edinburgh University Press.
- IEA. (2013). *World Energy Outlook 2013*. IEA/OECD.
- IPCC. (2011). *Special Report on Renewable Energy Sources and Climate Change Mitigation*. Cambridge University Press.
- IPCC. (2013). *Climate Change 2013: The Physical Science Basis*. Cambridge University Press.
- Leal-Arcas, R. Filis, A, Abu Gosh, E, (2014) *International Energy Governance - Selected Legal Issues*. Edward Elgar.
- Mackay, D. J. (2008). *Sustainable energy without the hot air*. UIT Cambridge.
- Rogers, E. M. (2010). *Diffusion of innovations*. Simon and Schuster.
- Talus K (ed.), (2015) *Research Handbook on International Energy Law*. Edward Elgar.

## EP07 National, comparative and european environmental law and policy

<b>Offered:</b>	Lent Term
<b>Coordinator:</b>	Dr Emma Lees
<b>Lecturer:</b>	Dr Emma Lees (Weeks 1-8 Lent Term)
<b>Supervisions:</b>	TBC depending upon numbers

### Introduction

The goal of this paper is to explore the implementation of environmental law at a national and European level, and to understand the filtration of the principles of environmental law into the practice of this national law. Furthermore, the course is designed to give a grounding in the methodology of comparative environmental study, and to provide language and structures to assist in understanding such law within different legal cultures.

The first lecture (Part A) will introduce the principles and methods of comparative environmental law, and will give an overall “method” for approaching the substantive areas of law studied in Part B. Part C will consider EIA and land use planning as part of the overall implementation structure. The last lecture will consider these issues from broader perspectives, considering analysis of environmental law from a variety of angles.

### Aims

The paper has two central aims: to provide students with a thorough grounding in national and European environmental law and to provide techniques in comparative legal study.

### Assessment

The module will be examined by a 4,000 word project.

### Course outline

#### **Week 1:** Part A: Introduction, principles, and methods (2 hours)

1. Introduction to Environmental Law
2. Comparative and national Environmental Law: how to carry out such study, its limitations, and the goal of comparative study.
3. Environmental instruments and systems
4. Focus on land use controls – developing principles for analysis
5. Perspectives: property rights, justice, and administrative

#### **Weeks 2- 6:** Part B: Substantive Areas of Law in Europe and the UK (9 hours)

6. Waste regulation (2 hours)
7. Habitats' Protection (2 hours)
8. Pollution Control (2 hours)
9. Contaminated Land (2 hours)
10. Conclusions and environmental principles (1 hour)

#### **Weeks 6-7:** Part C: Planning Controls and Environmental Impact Assessment (3 hours)

11. Environmental Impact Assessment (2 hours)

12. Planning Law in the European Union and links with Environmental law (1 hour)

**Week 8: Part D: Conclusions (2 hours)**

13. Instruments and effectiveness: a review of environmental techniques.

14. Governance implications - within States and within the EU.

**Reading**

The suggested textbooks are L Kramer, EU Environmental Law (Sweet & Maxwell, 2012) and Bell, S., D. McGillivray and O. W. Pedersen, Environmental Law (Oxford University Press, 9th ed., 2017). A comprehensive reading list will be issued at the beginning of lent term, together with the lecture materials.

## EP08 Comparative environmental policy

**Offered:** Michaelmas Term  
**Coordinator:** Dr Ksenia Gerasimova  
**Lectures:** 16 hours

### Pre-requisites

There are no pre-requisites for taking this course.

### Assessment

The module will be examined by a 4,000 word project written on one topic question from the list suggested by the lecturer. Candidates are expected to show their ability to apply comparative analysis and general knowledge of the environmental policy literature. The candidates will be required to select one question from a selection of four. Each answer should not exceed a maximum of 4,000 words inclusive of all text, except a bibliography. Small diagrams, maps, illustrations, tables of statistics, graphs, symbols and pictures consisting largely of text will be counted with an A4 page being assessed as equivalent to 250 words, part pages being assessed on a pro rata basis. Candidates should use an accepted and consistent system of citation which provides sufficient detail, for example (but not exclusively) the Harvard or IALS conventions.

### Introduction

The paper will provide a general sketch in understanding contemporary environmental policies worldwide. It will discuss major directions and objectives of environmental policy. It will compare experiences of both developed and developing countries in terms of what environmental challenges they face and what policy instruments are available. The course will build upon the contemporary framework of sustainable development, and will introduce related concepts such as green economy, circular economy, global environmentalism and classic texts such as the Brundtland Report by WCED. The actors-based approach will allow to compare states, business and civil society's involvement in elaborating environmental policies at international, national and local levels. Distinguished speakers will be invited to contribute to the course.

### Aims

The aims of this course are to:

- Develop a broad overview knowledge of environmental policy
- Acquire general theoretical knowledge in environmental policy debates
- Learn to apply comparative approach in analyzing environmental policy implementation at different institutional levels.
- Develop an understanding of the political-economic and institutional challenges related to governance of natural resources.
- Use environmental policy as a case for public policy analysis.

### Structure of the course

**Lecture 1.** Introduction to Environmental Policy and Environmentalism

**Lecture 2.** Implementation of Sustainable Development: Political and Economic Barriers

**Lecture 3.** Environmental Policies in the Global North

**Lecture 4.** Environmental Policies in the Global South

**Lecture 5.** Big business and Environmental Policy

**Lecture 6.** Civil Society and Environmental Policy

**Lecture 7.** Climate Change and Environmental Policy

**Lecture 8.** Modern Implementation of Sustainable development. New Concepts.

**References and reading list:**

Adams B. (2004) Green Development. Environment and Sustainability in the Third World. L.

Bendell J., Collins E., Roper J., (2010) Editorial beyond Partnerism: Towards a more Expansive Research Agenda on Multi-Stakeholder Collaboration for Responsible Business. Business Strategy and Environment, 19, pp.351-355.

Benton D. (2015) The guide to the circular economy: capturing value and managing material risk. Oxford.

Carson R. Silent Spring. Multiple Editions.

Diamond J. (2005) How Societies Choose to Fail or Succeed. Viking: N.Y.

Dietz, T., Ostrom, E., Stern, P.C., (2003) The struggle to govern the commons, Science 302: 1907-1912.

Duit A. (2014) State and Environment. The Comparative Study of Environmental Governance. MITT Press; Cambridge.

Eden, S. (1996) Public participation in environmental policy: considering scientific, counter-scientific and non-scientific contributions. 1996. <http://www.uv.es/~fernandm/Eden.pdf>.

Hartman C., Stafford E. (1997) Green Alliances: Building New Business with Environmental Groups. Long Range Planning, vol.30 N2, pp.184-196.

Harrison K., McIntosh Sansdtrom L. (2010) Global Commons, Domestic Decisions. The Comparative Politics of Climate Change. MITT Press: Cambridge.

Guha R., Juan Martinez-Alier J. (1997) Varieties of Environmentalism. L.: Earthscan.

Guha R. (2000) Environmentalism. Harlow: Longman.

Jahn D. (2016) The Politics of Environmental Performance: Institutions and Preferences in Industrialized Democracies. CUP: Cambridge.

Klein N. (2015) This Changes Everything: Capitalism vs the Climate. Simon & Schuster: N.Y.

Nordhaus T., Shellenberger M. (2003) The Death of Environmentalism. [https://www.thebreakthrough.org/images/Death\\_of\\_Environmentalism.pdf](https://www.thebreakthrough.org/images/Death_of_Environmentalism.pdf).

Nordhaus T., Shellenberger M. (2007) Break Through: From the Death of Environmentalism to the Politics of Possibility. Houghton Mifflin Company: N.Y.

OECD (2007) Business and the environment: policy incentives and corporate responses.

Radjou N., Prabhu J. (2015) *Frugal Innovations. How to do better with less.* Profile: L

Paris: Organisation for Economic Co-operation and Development.

Roberts J. (2004) *Environmental Policy.* Routledge: L.

Sachs J.D. (2015) *The Age of Sustainable Development.* University of Columbia Press: Chichester.

Steinberg P.F., Vandever S.P. (2012) *Comparative Environmental Politics. Theory, Practice and Prospects.* MIT Press: Cambridge.

Steffen, W. Crutzen, P.J. and McNeill, J. R. (2007) 'The Anthropocene: are humans now overwhelming the great forces of nature?', *Ambio* 36(8) 614-21.

Sustain C. (2009) *Laws of Fear: Beyond Precautionary Principle.* CUP: Cambridge.

Vig N.J., Kraft M.E. (2000) *Environmental Policy: New Directions.* Congressional Quarterly Press: Washington.

WCED (1989) *Our Common Future.* Oxford University Press.

Zander J. (2010) *The Application of precautionary principle in practice: comparative dimensions.* Cambridge University Press.



## PGR01 Urban and environmental planning

<b>Offered:</b>	Michaelmas and Lent Terms
<b>Co-ordinator:</b>	Dr Elisabete Silva
<b>Lecturer(s):</b>	Dr Elisabete Silva and Mr Felix Agyemang Dame Kate Barker Mr Kelvin MacDonald Mrs Sarah Whitney
<b>Supervisor:</b>	Mr Felix Agyemang, Dr Camillo Calderon

### Introduction

This module is designed to set the planning foundation for PGR students. Students from different backgrounds of study, cultural traditions and geographical locations will engage in open debates on the nature, scope, techniques and purposes of urban and environmental planning. It will explore the rationales of planning, its evolution, theories and different spatial representations. It will investigate the factors that have given rise to planning in its current form and engage in discussions about its future. Students will be encouraged to compare policy and practice across a range of countries and to contribute examples from their own experience and research as one basis for examining the themes arising during the course.

Students may attend lectures given for Paper 14 - Planning Policy and Practice in the UK, of the Land Economy undergraduate course. Attendance at these may be desirable for students who have not done any planning before. It should be appreciated, however, that these lectures are primarily aimed at third year undergraduates and not at postgraduates.

### Aims

- a) To understand the purposes of urban and environmental planning and the arguments for and against it;
- b) To understand planning history and the contexts and approaches of planning practice and to relate this to the wider debates about planning, appreciating the range of viewpoints and the different interest groups involved in it;
- c) To establish and evaluate the theoretical frameworks within which planning practice and debates take place and to analyse planning policies, approaches and planning systems;
- d) To understand the differing outcomes of urban and environmental planning in terms of land the delivery of social, economic and environmental goods;
- e) To review the planning models and techniques-tools, parameters and metrics for planners stressing the importance of developing integrated planning;
- f) To discuss the importance of sector and vertical/institutional integration and how this contributes to sustainability and good governance;
- g) To enable students to place planning in a wider international planning context through the understanding of European Planning Policy and different planning systems and institutions across the world.

### Course outline

**Lecture 1 - Introduction, Rationales of Planning, Planning History** (*Elisabete Silva*)

Introduction to the course. The meaning of urban and environmental planning, scales, actors. The first developments of 'modern' Planning as a result of Government action

*Key Readings:*

RTPI, shaping the future. Manifesto for Planning. 2010. RTPI library series:  
<http://www.rtpi.org.uk/media/6237/RTPI-Manifesto-for-Planning-2010-full.pdf>  
 Healey, (2010) Making Better Places. Palgrave MacMillan Parts 1,2,5,6.  
 Hall, Peter (1988) *Cities of Tomorrow*, Blackwell.

**Lecture 2 - Planning History in the UK** (*Elisabete A. Silva*)

The evolution of planning in the UK (from the 1950s onwards), and main key figures and moments in time. Today's planning system and challenges.

*Key Readings:*

Alexander, Anthony (2009) Britain's New Towns (Garden Cities to Sustainable Communities). Routledge.  
 Haughton, G. and Allmendinger, P. (2013) *Spatial Planning and the New Localism*, Routledge.  
 Allmendinger, P. (2016) Neoliberal Spatial Governance, Routledge, London (chap. 1,2, 8,9)  
 Rydin, Y. (2013) *The future of Planning*. Policy Press.(chap 1 and 2)

**Lecture 3 - Theory of Planning** (*Elisabete A. Silva*)

The evolution of planning, and main key figures and moments in time. Applied planning theory, the relationships between theory and practice.

*Key Reading:*

Allmendinger, Phil (2017) *Planning Theory*. Palgrave.

**Supervision 1 - what is planning and how it evolved (aprox. 30th of October)**

**Lecture 4 - The image of the City/Region and its representation Models in Planning** (*Elisabete Silva*)

The representations of the city/region through time, the review of planning models and techniques-tools, parameters and metrics for planners to use.

*Key Readings:*

Harvey J. and Jowsey E. (2004) *Urban Land Economics*. 6th Edition. Palgrave, pp 247 to 289.  
 Pacione, M. (2012) *Urban Geography* (4th Edition). Routledge. Pp-3 67.  
 Hall, P (2004) *Cities of Tomorrow*. 3rd Edt. Routledge. pp. 87-260.

**Lecture 5 - Sector Planning and the need for Integrated Planning** (*Elisabete Silva*)

Physical and socio-economic approaches to planning: Transportation, Land Use, Heritage, Retail, Industry, Environmental Protection, Housing, Countryside, Risk. The

context for sustainable settlement and urban form: the urban and environmental design elements, ecological landscape design, green belts, national parks, biodiversity.

*Key Readings:*

Land use Planning: <http://www.sustainablecitiesinstitute.org/topics/land-use-and-planning>

Reis, J and E.A. Silva (2016) Spatial Metrics to Study Urban Patterns in Growing and Shrinking Cities. (with J. Reis). Urban Geography. 37 (2): 246-271t.

Acheapong, R. and E. AA. Silva 2015 Land Use-Transport Interaction Modelling: A Review of the Literature and Future Research Directions. (with R.). Journal of Transport and Land Use. Vol 8 (3): 1-28 pp.

**Lecture 6 - Spatial Planning and Complexity - Workshop reaching consensus (Elisabete Silva)**

The context for sustainable settlement and urban form: the inclusion of stakeholders opinions though the use of focus groups, *charrette* methodologies, workshops and the use of techniques such as SWOT analysis, post-it approaches, discourse analysis

*Key Readings:*

Roo, Gert de, and Elisabete A. Silva (2010), A Planner's Encounter with Complexity, Ashgate Publishers Ltd, Aldershot (UK). ISBN: 978-1-4094-0265-7. <http://www.ashgate.com/isbn/9781409402657> pp. 188-262.

Palermo, P, Ponzini D (2010) Spatial Planning and Urban Development. Springer

Berman, T. (2017) Public Participation as a Tool for Integrating Local Knowledge into Spatial Planning. Springer – pages 1 to 34

Lee, A. and E. Silva (2017) Newspaper representation and power relations in infrastructure projects: a case study of Hong Kong's Express Rail Link. International Planning Studies (IPS) 22 (3): 256-272

**Supervision 2 - The models and methods of/for Planning (aprox. 13 of November)**

**Lecture 7 - Hot Topics in Planning: Dynamic modelling of urban complexity: Integration of spatial and aspatial techniques (Elisabete Silva and Felix Agyemang)**

This year we will discuss approaches aimed at linking aspatial variables such as socio-economic and behavioural factors to spatial processes in modelling urban complexity.

*Key readings for discussion in class will include:*

Crooks, A. T., & Castle, C. J. (2012). The integration of agent-based modelling and geographical information for geospatial simulation. In Agent-based models of geographical systems (pp. 219-251). Springer Netherlands.

Dahal, K. R., & Chow, T. E. (2014). An agent-integrated irregular automata model of urban land-use dynamics. International Journal of Geographical Information Science, 28(11), 2281-2303. doi:10.1080/13658816.2014.917646

Silva, E. (2013) Editorial: Hot topics in planning. Urban Design and Planning 166(3):149-150.

Wu, N., & Silva, E. A. (2010). Artificial Intelligence Solutions for Urban Land Dynamics: A Review. *Journal of Planning Literature*, 24(3), 246-265. doi:10.1177/0885412210361571

Agyemang, F. , E. Silva and K. Amedzoro 2017 The emergence of city-regions and their implications for contemporary spatial governance: Evidence from Ghana, *Cities*, 71: 70-79

Liu, H. and E. A. Silva (2017) Examining the dynamics of the interaction between the development of creative industries and urban spatial structure by agent-based modelling. *Urban Studies*. 65: 113-125

## **Lecture 8 - International Planning Policy** (*Elisabete Silva*)

International Planning nowadays: International Organizations and International Planning Policy, Country-Continental policy.

### *Key Readings:*

Duhr et al. (2010) *European Spatial Planning and Territorial Cooperation*. Routledge. Part 2 and Part 3.

Matthias Bernt (2009): Partnerships for Demolition: The Governance of Urban Renewal in East Germany's Shrinking Cities, *IJURR*, Volume 33 Issue 3, 2009, pp. 754 – 769.

Silva, E. A. and Acheapong, R. (2015) Developing and inventory and typology of Land-Use Planning Systems and Policy Instruments in OECD Countries. OECD, DOI.: JT03374599 ENV/EPOC/WPIEEP (2015)8: 54 pages

## **Supervision 3 - Comparing and contrasting different planning approaches (aprox. 27 November)**

## **Lecture 9 - Revision Lecture & Exam preparation/feedback** (*Elisabete Silva*)

### **Lent Term**

## **Lecture 10 - Understanding Spatial Planning – a critical perspective:** Kelvin MacDonald

How should we conceptualise spatial planning? What ideas and concepts can provide us with a way of understanding the varieties of approaches and practices in the UK and elsewhere?

**Key Readings** Allmendinger, P. (2017) *Planning Theory*, Palgrave

Haughton, G, Allmendinger, P, Counsell, D and Vigar, G (2009) *The New Spatial Planning*, Routledge, London

Newman P (2008) Strategic Spatial Planning: Collective Action and Moments of Opportunity, *European Planning Studies*, 16 (10) 1371 - 1383

Chapter 1 in Rydin, Yvonne (2011) *The Purpose of Planning: Creating Sustainable Towns and Cities*, Policy Press

## **Lecture 11 - Planning and Land Markets:** Sarah Whitney

Property rights and planning, regulation in land use, availability of land, models of regulation, land values, costs and benefits of development, planning policy impacts in land values.

**Key Readings** Adams, David and Tiesdell, Steve (2012) *Shaping Places: Urban Planning, Design and Development*, Routledge

Dept. for Communities & Local Govt (2012) *National Planning Policy Framework*, DCLG [https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/60771/2116950.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/60771/2116950.pdf)

Evans, A (2004) 'Planning and the Land Market', pp. 75 – 87 in Evans, A, *Economics and Land Use Planning*, Blackwell, p. 207

Tiesdell, S, and Allmendinger, P, (2005) 'Planning Tools and Markets: Towards an Extended Conceptualisation' pp. 56 – 76 in Adams, D, Watkins, C, White, M, *Planning, Public Policy & Property Markets*, Blackwell

Lent Supervision #1 **Understanding Spatial Planning**

**Lecture 12 - Public involvement in planning:** Kelvin MacDonald

The role of public involvement in planning. Planning and ethics. Theories into practice. Professional/community relationships.

**Classic Readings** Arnstein, Sherry R (1969) 'A Ladder of Citizen Participation', *Journal of the American Institute of Planners*, Vol. 35, No. 4, July, pp. 216-224

<https://www.planning.org/pas/memo/2007/mar/pdf/JAPA35No4.pdf>

Davidoff, P, 'Advocacy and Pluralism in Planning', *Journal of the American Institute of Planners*, Vol. 31 no. 4, 1965 <http://dx.doi.org/10.1080/01944366508978187>

Innes, J, and Booher, D (2004) 'Reframing Public participation: Strategies for the 21st century', *Planning Theory & Practice*, Vol. 5 no. 4, pp. 419 – 436, Dec

<http://dx.doi.org/10.1080/1464935042000293170>

Krumholz, N (2001) 'Planners and politicians: a commentary based on experience from the United States', *Planning Theory & Practice*, Vol. 2 no. 1, April, pp. 96-100

<http://dx.doi.org/10.1080/14649350122852>

Lent Supervision #2 **Public involvement in planning**

**Lecture 13 - National Planning:** Kelvin MacDonald

England has no national spatial plan – although other UK nations do have one. This lecture will look at what means is used by the Government to plan for national investment and to gain an understanding of the locational impacts of non-spatial policies. It draws on international examples and the growing use of big data to show the potential for national spatial planning.

**Key Readings:** Dept. for Business, Enterprise and Industrial Strategy (2016) *Building Our Industrial Strategy*, BEIS ([https://beis.gov.uk/citizenspace.com/strategy/industrial-strategy/supporting\\_documents/buildingourindustrialstrategygreenpaper.pdf](https://beis.gov.uk/citizenspace.com/strategy/industrial-strategy/supporting_documents/buildingourindustrialstrategygreenpaper.pdf))

Scottish Government (2014) *National Planning Framework 3*

<http://www.scotland.gov.uk/Publications/2014/06/3539>

Welsh Assembly Government (2008) *People, Places, Futures - The Wales Spatial Plan 2008 Update*

<http://gov.wales/topics/planning/development-plans/wales-spatial-plan/?lang=en>

see also <http://gov.wales/topics/planning/national-development-framework-for-wales/?lang=en>

Department for Regional Development (2010) *Regional Development Strategy 2035*, DRDNI

<https://www.infrastructure-ni.gov.uk/publications/regional-development-strategy-2035>

Common Futures Network (2017) *Towards A Common Future: A New Agenda for England and the UK*, CFN, May

<http://commonfuturesnetwork.org>

**Lecture 14 - Contemporary Garden Villages – An idea of its time?:** Lord Taylor of Goss Moor (TBC)

Lord Taylor of Goss Moor was the MP for Truro and St Austell until 2010, holding a number of senior political positions. He was the Chair of the Review of Government Planning Practice Guidance in 2012; and is the author of *Living Working Countryside: The Taylor Review of Rural Economy and Affordable Housing* and of *Garden Villages: Empowering localism to solve the housing crisis*

**Key Readings** Lord Matthew Taylor (2015) *Garden Villages: Empowering localism to solve the housing crisis*, The Policy Exchange

<http://www.policyexchange.org.uk/images/publications/garden%20villages.pdf>

Lord Taylor of Goss Moor (2012) External review of government planning practice guidance: Conclusions and recommendations, DCLG

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/39821/taylor\\_review.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/39821/taylor_review.pdf)

Matthew Taylor (2008) *Living Working Countryside: The Taylor Review of Rural Economy and Affordable Housing*, DCLG

[http://www.wensumalliance.org.uk/publications/Taylor\\_Review\\_Livingworkingcountryside.pdf](http://www.wensumalliance.org.uk/publications/Taylor_Review_Livingworkingcountryside.pdf)

**Lecture 15 - Spatial planning & determinants of the supply of housing:** Dame Kate Barker CBE

Kate Barker brings high level experience of public policy and the private sector as both a non-executive member of the Office for Budget Responsibility and a member of the Board of Taylor Wimpey. She will be discussing the inter-relationships between planning and land and housing supply.

**Key Readings** Barker, K (2014) *Housing: Where's the Plan?* Perspectives

Barker, K (2004) *Review of Housing Supply, Delivering Stability, Securing our future housing needs; Final Report*, HMSO

[http://webarchive.nationalarchives.gov.uk/+http://www.hm-treasury.gov.uk/media/E/3/barker\\_review\\_report\\_494.pdf](http://webarchive.nationalarchives.gov.uk/+http://www.hm-treasury.gov.uk/media/E/3/barker_review_report_494.pdf)

(2015) *The Lyons Housing Review: Mobilising across the nation to build the homes our children need* <http://www.yourbritain.org.uk/agenda-2015/policy-review/the-lyons-housing-review>

Office of Fair Trading (2008) *Homebuilding in the UK: A Market Study*, OFT, September [http://www.offt.gov.uk/shared\\_offt/reports/comp\\_policy/oft1020.pdf](http://www.offt.gov.uk/shared_offt/reports/comp_policy/oft1020.pdf)

Lent Supervision #3 **Planning for Sustainable Development**

**Lecture 16 - Planning Futures:** Kelvin MacDonald

This lecture will draw this module together by looking at the efficacy of spatial planning and its possible future roles. This will be done through analysing the strengths and weaknesses of other planning regimes and through examining alternative ideas for planning.

**Lecture 17 - Planning for Sustainable Development:** Kelvin MacDonald

This lecture looks at the nature of sustainable development and communities and the means available to planners to achieve these. There will be a short lecture and then students will be invited to contribute their own case studies to illustrate planning for sustainable development.

**Key Readings** Dept. for Environment, Food & Rural Affairs (2005) *Securing the Future*

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/69412/pb10589-securing-the-future-050307.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/69412/pb10589-securing-the-future-050307.pdf)

Dept. for Communities & Local Govt (2012) *National Planning Policy Framework*, DCLG

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/60771/2116950.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/60771/2116950.pdf)

IPCC (2014) *Climate Change 2014: Mitigation of Climate Change*

<http://mitigation2014.org/report/publication/>

## **Lecture 18 - Revision Lecture & Exam preparation/feedback** (*Kelvin MacDonald*)

### **In preparing for the lectures, students should examine:**

- a) the major questions raised by the literature on the subject and
- b) the answers to these provided in the literature and from the student's experience
- c) the arguments and controversies surrounding the topic
- d) any gaps in knowledge or understanding revealed by the literature and
- e) how positions differ across different nations

Students are encouraged to attend the "Department Seminar Series", some of the subjects introduced by the guest speakers might be subject of exam questions.

### **Study Visit (TBC)**

Letchworth Garden City - with 33,600 inhabitants, it was planned by Raymond Unwin using Ebenezer Howard principles of good city design by combining the best of town and country living. Built in 1909 in lands purchase by Quakers, it set the example for what would become the development of New Towns in the UK.

### **Assessment**

Module PGR01 will be examined by 4,000 word project in the Lent Term (50% of total mark) and by two-hour written examination in the Easter Term (50% of total mark).

## **PGR02 Urban and housing policy**

**Offered:** Michaelmas and Lent Terms  
**Coordinator:** Dr Nicky Morrison  
**Lecturer:** Dr Alex Morris (weeks 1-4), Professor Pete Tyler (weeks 5-8),  
Dr Morrison (weeks 9-16)

### **Introduction**

This module is designed to provide the analytical capabilities to assist those involved in urban and housing policy formulation and evaluation. The module comprises three parts. The first part draws on relevant economic analytical frameworks to explain the rationale for government intervention in urban markets. The second part is concerned with understanding how urban policy makers evaluate the impact of their policies. The third part focuses on the rationale and consequences of government intervention specifically in housing markets. The module draws on case studies primarily within the UK, Europe, USA and China, although students with knowledge of other countries are encouraged to share their experiences. Moreover, the conceptual framework of analysis has a general application to most countries.

### **Aims**

- Develop an understanding of why certain urban areas fall into decline, including an understanding of market failure and the economic and social consequences
- Develop analytical capabilities for understanding the economics of government intervention, focusing on the economic rationale, effectiveness and consequences of urban and housing policy intervention.
- Apply the theoretical material to empirical examples.
- Compare international policy development regarding urban and housing regeneration.

### **Teaching methods**

The paper will be taught by way of a two-hour weekly seminar during the Michaelmas and Lent terms. Detailed lecture handouts and guidance on the reading material relating to each topic will be provided each week. Accompanying these seminars will be three small-group supervisions per term whereby students are required to submit 1000-word essays prior to the supervision, which will be given an informative mark. Supervision essay titles, readings and dates will be provided in a separate handout. All course material is accessible on the PGR02 Moodle site.

### **Seminar topics for 2017-18**

#### **Michaelmas term**

**Lecturer: Dr Alex Morris**

**Week 1:** Introduction to relevant economic frameworks to analyse urban markets

**Week 2:** Market failure in the context of urban markets

**Week 3:** Public goods and urban examples

**Week 4:** Cost/benefit analysis - its use in urban policy

**Lecturer: Professor Pete Tyler**



**Week 5** Urban problems and the rationale for policy intervention

**Week 6** Evaluating urban policy

**Week 7** Social exclusion at the urban neighbourhood level and policy response

**Week 8** Evaluating urban neighbourhood based social exclusion policy

### **Lent term**

**Lecturer: Dr Nicky Morrison**

**Week 9:** Introduction to relevant economic framework to analyse housing markets

**Week 10:** Market failure and rationale for government intervention in housing markets

**Week 11:** The impact of housing policy on residential areas

**Week 12:** Residential mobility & housing choice: the implications

**Week 13:** Evaluating housing renewal policy

**Week 14:** Delivering mixed income communities

**Week 15:** Neighbourhood renewal and community-led regeneration

**Week 16:** Evaluating affordable housing policy

### **Assessment**

The module will be examined by 4,000 word project in the Lent Term (50% of total mark) and by two-hour written examination in the Easter Term (50% of total mark).

### **Key readings**

#### **Urban Policy**

Cheshire P et al (2014) *Urban Economics and Urban Policy Challenging Conventional Policy* Wisdom, Edward Elgar publishing Ltd

Gardiner, B, Martin, R and Tyler, P (2014). *The Evolving Economic Performance of UK Cities*, Foresight, Office of Science

le Grande J et al (2008) *The Economics of Social Problems*, Palgrave, Macmillan

Lupton, R, Fenton, A and Fitzgerald, A (2013). *Labour's Record on Neighbourhood Renewal in England: Policy, Spending and Outcomes 1997-2010*. CASE Working Paper, London

#### **Housing Policy**

Allen C (2008) *Housing Market renewal and social class*, Routledge.

Beider H (2006) *Neighbourhood Renewal & Housing markets*, Blackwell.

Lund B (2011) *Understanding housing policy* Bristol: the Policy Press.

Malpass P and Rowlands R (eds) (2010) *Housing Markets and policy*, Routledge.

Oxley M (2004) *Economics, Planning and Housing*, Plagrave Macmillan.

## **PGR03 Spatial economics**

**Offered:** Lent Terms  
**Coordinator:** Dr Franz Fuerst  
**Lecturer(s):** Dr Franz Fuerst, Professor Harry Garretsen

### **Outline**

The spatial distribution of population and economic activities is extremely unequal. At any geographical scale, agglomerations and their effects on economic activity are pervasive. A large proportion of global income, wealth and GDP is concentrated in a relatively small number of countries. However, the spatial concentration within countries is equally important, with economic landscapes reflecting the variety of cities and urban systems. Within cities, we also observe striking differences in the socio-economic composition of neighbourhoods and districts. Spatial economics is primarily concerned with the economic forces that cause the rise and decline of agglomerations at various spatial levels as well as the mechanisms that determine a city's place in the overall urban hierarchy. It is further concerned with both the operation and failures of the key markets that characterise urban areas. Most notable amongst these are land, labour and product markets and the allocation of land uses in a city or region. Failures in these markets help provide a rationale for local and national intervention at the city level in the form of regional and urban policy. Recent approaches in spatial economics have also focussed on the role of non-market interactions in shaping and sustaining agglomerations, particularly in light of rapidly changing patterns of communication modes and networks.

### **Aims**

The aim of this module is to introduce students to some of the main issues in spatial economics with particular emphasis on urban land use. In particular, the lecture series covers theoretical ideas concerning the determination of urban land values, the growth of urban areas, problems of urban decay, and the operation of urban housing markets.

### **Learning outcomes**

By the end of the lecture series, participants should have a good understanding of key theoretical ideas in the most important areas of spatial economics. They should not only be able to state these ideas clearly but also to discuss their strengths and weaknesses.

### **Teaching methods and assessment**

There will be eight 2-hour lectures in total. If class sizes allow, each lecture will also involve opportunity for discussion of key points. Additional information and interaction will be given through occasional seminars on current research topics in spatial economics by guest speakers. Since many of these speakers are visiting from out of town, the details of the seminar talks will be announced nearer the date.

This module is assessed with a two hour written paper. The precise format of the examination shall be announced during the early part of the lecture series.

### **Lectures**

**Week 1: The Historic and Current Role of Cities**

**Week 2 : Explaining urban structures: von Thunen, Alonso, Hotelling**

**Week 3: Cobb-Douglas, spatial spillovers, externalities and ways to measure them**

**Week 4: Industrial and retail location, urban hierarchies**

**Week 5: Economic growth, spatial competition and productivity**

**Week 6: New Economic Geography**

**Week 7: Microfoundations of agglomeration economies**

**Week 8: Recent developments in spatial economics**

## **Readings**

### **Core Readings**

McCann, P. (2013) *Modern Urban & Regional Economics*. Oxford: Oxford University Press.

Brakman, S. Garretsen, H. and van Marrewijk, C. (2009) *The New Introduction to Geographical Economics*. Cambridge: Cambridge University Press.

### **Introductory Textbooks**

McDonald, J. and McMillen, D. (2007) *Urban Economics and Real Estate*, Oxford: Blackwell.

O'Sullivan, Arthur (2003) *Urban Economics*. Boston, Mass: McGraw-Hill/Irwin. ISBN 0-07-248784-4.

### **Other Useful Textbooks**

Capello, R. (2007) *Regional Economics*, London and New York: Routledge.

O'Flaherty, B. (2005) *City Economics*, Cambridge, MA: Harvard University Press.

### **Advanced**

Fujita, M. and J-F. Thisse (2002), *Economics of Agglomerations*. Cambridge: Cambridge University Press.

Thisse J-F and J-M Huriot (2000) *Economics of Cities*. Cambridge: Cambridge University Press.

Fujita, M. et al (1999), *The Spatial Economy*. Cambridge, Mass: MIT Press.

## PGR04 Institutions and development I

**Offered:** Michaemas Term  
**Coordinator:** Dr Shailaja Fennell  
**Lecturers:** Dr Shailaja Fennell, Dr. Richard Sidebottom, and Javier Gonzalez  
**Format:** 7 weekly lectures and 1 workshop

### Aims and objectives

This paper explores the role of institutions as formal and informal rules in social, economic and environmental aspects of development at multiple scales. It places people at the centre of development and examines the relationship between the individual and collective; private and public. Lectures are structured around core themes: Growth, Inequality and Colonialism, Labour and Social Welfare; Agriculture, Food and Standards; Education, Human Capital and Demography; Technology, Energy and Sustainability. These are explored using Old, New and Political Economy frameworks of Institutional Analysis to investigate the interaction and co-evolution of institutions over time.

### Background Readings

*Fennell, S. 2010. Rules, Rubrics and Riches: the interrelationship between the legal reform and international development, Routledge.*  
*Hodgson, G.M. (1993). Institutional Economics: Surveying the 'Old' and the 'New'. Metroeconomica 44: 1, pp.1-28.*  
*Hodgson, G.M. (2001). How economics forgot history: the problem of historical specificity in social science. Routledge.*  
*North, D.C., 1990. Institutions, institutional change & economic performance, CUP.*  
*Polanyi, K, (1944) 2001, The Great Transformation, The Political and Economic Origins of our time, Beacon press, Boston, 2001 edition*  
 An extensive reading list will be provided throughout the term.

### Method of assessment

Assessment is by means of one essay (4,000 words).

### Teaching format

The lectures run alongside fortnightly discussion classes, and there are also wrap up end of term workshops. The purpose of these interactive and participatory sessions is to develop analytical, research and presentation skills and to facilitate understanding and application of course material.

#### 1. Institutional frameworks

The introductory lecture will outline the key institutional frameworks, and provide examples from the realm of development to show the value of theoretical frameworks for institutional analysis, and this method will be adopted throughout the course.

*Bates, R.H., 1995, Social dilemmas and rational individuals: An essay on the new institutionalism in J Harriss, J Hunter and C M Lewis (eds), The New Institutional Economics and Third World Development, London, Routledge.*

*Chang, H.J., 2007, Understanding the Relationship between Institutions and Economic Development - Some Key Theoretical Issues, in Chang, H.J. (ed.), Institutional Change and Economic Development, Tokyo: United Nations University Press, and Anthem Press, London*

*Hodgson, G.M., 2007, The revival of Veblenian Institutional Economics, Journal of Economic Issues, Vol XLI, No 2, June, 2007*

#### 2. Institutions and Growth

This lecture will look at the relationship between growth policies, and institutions. The emphasis will be on the relationship between market, state and the nature of economic development, with a particular emphasis on rules and regulation.

Migdal, J.S., 2001, *State in Society: studying how States and Societies Transform and Constitute one another*, CUP, Cambridge

North, D.C. (1990), *Institutions, Institutional Change and Economic Performance*, Cambridge University Press. Read only Part II: Institutional Change.

Daron Acemoglu and James A. Robinson, *Why Nations Fail: The Origins of Power, Prosperity, and Poverty*.

### 3. Welfare States

This lecture will address the role of welfare states in the distribution of property rights. The different most prevailing institutional arrangements will be examined. The relevance of fiscal and social policy will be discussed.

Esping-Andersen, G. (1990), *The Three Worlds of Welfare Capitalism*. Cambridge: Polity Press & Princeton: Princeton University Press, 1990.

Cárdenas, M. & Perry, G. (2011). "Fiscal Policy in Latin America" in J.A. Ocampo & J. Ros (Eds.), *The Oxford Handbook of Latin American Economics*. Oxford: Oxford University Press. Only pages: 266-285.

### 4. Inequality

Through a wide range of theoretical literature from economics, sociology and political philosophy, this lecture will review the contemporary debate and examine how inequalities may be institutionally and socially structured, emphasising the role of power relations exercised through the state, media and religion.

Harvey, D. (2010), *The Enigma of Capital & the Crises of Capitalism*, Oxford University Press.

Neckerman, K. & Torche, F. (2007). "Inequality: Causes & Consequences", *Ann.Review of Sociology*, 33: 335-57.

Rousseau, JJ. (1755), *Discourse on the origin and foundations of inequality among men*. Oxford University Press.

Stiglitz, J. (2013), *The Price of Inequality: How Today's Divided Society Endangers Our Future*. W. W. Norton & Company

### 5. Colonialism and Institutions

This lecture will examine the role of colonialism and types of colonial policy on development trajectories and reflect on the implications of colonialism for development policy making in independent countries.

Bates, R.H., 1981, *Markets & States in Tropical Africa: The Political Basis for Agricultural policies*, Univ of California Press

Acemoglu, D., Johnson, S., & Robinson, J.A., 2001, *The Colonial Origins of Comparative Development: an Empirical Investigation*, *American Economic Review*, Vol 91, No 5, Dec, 2001

### 6. Agriculture

This lecture will analyse supply-side political and economic institutional constraints to innovation in agriculture in developing countries. This will include the role of intellectual and land property rights; the political economy of R&D; and links between input, output and credit markets.

Daviron, B, & Ponte, S, 2005, *The Coffee Paradox*, ZED Books, New York pp.83-121

Dorward, D., Poole, N., Morrison, J., Kydd, J., & Urey, I., 2003, *Markets, Institutions and Technology: Missing Links in Livelihoods Analysis*, *Development Policy Review*, 2003, 21 (3): pp 319-332

Juma, C., 2011, *The New Harvest: Agricultural Innovation in Africa*, OUP, 2011, pp23-83, 142-165  
*World Development Report, 2008, Agriculture for Development*, pp138-158

### 7. Standards and Regulation

This lecture will look at demand-side standards (both regulatory & private) as institutional norms by which market exchange is governed. We will focus on how notions of quality (including sustainability) in global value chains frame opportunities for developing countries in production, processing and manufacturing.

*Bassett, T.J., 2010, Slim pickings: Fairtrade cotton in West Africa, Geoforum 41, pp 44-55*

*Daviron, B, & Ponte, S, 2005, The Coffee Paradox, ZED Books, New York pp.30-78, 127-198*

*Dolan, C. & Humphrey, J., 2000, Governance and Trade in Fresh vegetables: The Impact of UK Supermarkets on the African Horticulture Industry*

## **8. Recap Workshop**

## PGR05 Institutions and Development II

**Offered:** Lent Term  
**Coordinator:** Dr Shailaja Fennell  
**Lecturers:** Dr Shailaja Fennell, Dr. Richard Sidebottom, and Javier Gonzalez  
**Format:** 7 weekly lectures and 1 workshop

### Aims and objectives

This paper explores the role of institutions as formal and informal rules in social, economic and environmental aspects of development at multiple scales. It places people at the centre of development and examines the relationship between the individual and collective; private and public.

Lectures are structured around core themes: Growth, Inequality and Colonialism, Labour and Social Welfare; Agriculture, Food and Standards; Education, Human Capital and Demography; Technology, Energy and Sustainability. These are explored using Old, New and Political Economy frameworks of Institutional Analysis to investigate the interaction and co-evolution of institutions over time.

### Background Readings

*Fennell, S. 2010. Rules, Rubrics and Riches: the interrelationship between the legal reform and international development, Routledge.*

*Hodgson, G.M. (1993). Institutional Economics: Surveying the 'Old' and the 'New'. Metroeconomica 44: 1, pp.1-28.*

*Hodgson, G.M. (2001). How economics forgot history: the problem of historical specificity in social science. Routledge.*

*North, D.C., 1990. Institutions, institutional change & economic performance, CUP.*

*Polanyi, K, (1944) 2001, The Great Transformation, The Political and Economic Origins of our time, Beacon press, Boston, 2001 edition*

An extensive reading list will be provided throughout the term.

### Method of assessment

Assessment is by means of a two-hour written examination.

### Teaching format

The lectures run alongside fortnightly discussion classes, and there are also wrap up end of term workshops. The purpose of these interactive and participatory sessions is to develop analytical, research and presentation skills and to facilitate understanding and application of course material.

### Lent Term

#### 9. Race, Ethnicity and Institutions

This lecture will address the implication of the institutions of race, caste and kinship on economic and social development. The focus will be on the dynamism and fluidity of these institutions in East Africa and South Asia.

Akerlof, George and Rachel E. Kranton, 2000, 'Economics and identity', *The Quarterly Journal of Economics* 115(3): 715-53.

Akerlof, G.A., 1976, 'The economics of caste and of the rat race and other woeful tales', *Quarterly Journal of Economics*, 90(4): 599-617.

Beteille, A., 1991, *Society and politics in India: essays in a comparative perspective*, Athlone Press.

## 10. Education and Social Mobility

This lecture will examine education from an institutional analysis perspective. It will discuss competing economic and sociological schools of thought in regards to its role in the reproduction of social inequalities.

Bourdieu, P. and Passeron, J.C. (1990), *Reproduction in Education, Society and Culture*. London: SAGE Publications.

Bowles, S. and Gintis, H. (1975), "The Problem With Human Capital Theory- A Marxian Critique", *American Economic Review*, 65: 74-82.

## 11. Demography and Gender

This lecture will focus on the changing demography in developing countries, and implications for age, migration and gender.

*IMF, 2014, Africa Rising: Harnessing the Demographic Dividend, Drummond, P., Thakoor, V., & Shu Yu IMF WP, African Dep't, Aug.2014, <https://www.imf.org/external/pubs/ft/wp/2014/wp14143.pdf>.*

Beneria, L. and M. Roldan, 1987. *The Crossroads of Class and Gender: Industrial Homework, Subcontracting and Household Dynamics in Mexico City*, Chicago: University of Chicago Press.

Bloom, D. and G. Williamson, 1998, Demographic Transition and Economic Miracles in East Asia, *World Bank Economic Review*, 12: 419-55.

## 12. Collective Action and Public Goods

This lecture will conceptually explain why institutions change over time. It will contrast competing schools of thought within institutional analysis, with a special focus in social conflict, power relations and their effect over the distribution of property rights.

Knight, J. (1992), *Institutions and Social Conflict*, Cambridge University Press. Read only Chapter 1: Introduction.

*Olson, M., 1962, The Logic Of Collective Action Public Goods and the Theory of Groups, Harvard University Press Cambridge. Massachusetts.*

## 13. Water and Sanitation

This lecture will focus on community-level institutional responses to the 'Tragedy of the Commons'. This will be achieved through the at the cases of the provision of water and sanitation.

Hardin, G. (1968). "The tragedy of the commons." *Science* 162: 1243-1248.

*Ostrom, E., 1990, Governing the Commons, The Evolution of Institutions for Collective Action, Cambridge University Press, Cambridge, 1990.*

Ostrom (2007). "A diagnostic approach for going beyond panaceas." *PNAS* 104(39).

## 14. Technology and Innovation

This lecture uses the case study of biotechnology in the cotton sector to highlight the wide range of institutional and sustainable development questions raised by the introduction of agricultural innovations.

*Glover, D., 2010, Is Bt Cotton a Pro-Poor Technology? A Review and Critique of the Empirical Record, Journal of Agrarian Change, Volume 10, Issue 4, pages 482–509, October 2010*



Paarlberg, R., 2013, *Genetically Modified Foods and Crops: Africa's Choice*, in *Genetically modified crops in Africa*, Falck-Zepeda, J., Gruere, G., & Sithole-Niang, I., 2013, *International Food Policy Research Institution, Washington D.C., 2013*

### **15. Energy and Sustainability**

This lecture will critique national and international institutional responses to the 'Tragedy of the Commons'. Case studies from the provision of green energy and a broader discussions of SDGs will be drawn upon in the discussion.

Diamond, J. (2005). *Collapse: how societies choose to fail or succeed*. Viking Press.

Sagoff, M. (2008). *Economy of the Earth*. Cambridge University Press.

### **16. Recap and Workshop**

## RE01 Corporate finance and real estate

**Offered:** Michaelmas and Lent Terms  
**Coordinator:** Dr Thies Lindenthal  
**Lecturer:** Dr Thies Lindenthal and Professor Colin Lizieri

### Introduction

This pathway module provides an introduction to the principles of corporate finance as they apply to commercial real estate. It sets out the basis by which rational investors and managers make investment and capital budgeting decisions and examines the cashflow characteristics of real estate projects. In addition, an overview of real estate securities, including listed property companies and REITs, mortgage backed securities and other forms of securitised real estate investment is provided. On completing the module, students should have an understanding of the structure of these securities markets and of the pricing principles found therein.

### Aims

The main aim of the module is to assist students in acquiring a basic understanding of the principles of corporate finance, investment theory and real estate securities. Alongside this, students should gain an appreciation of the structure of commercial real estate markets.

On completion of the module, students should be able to:

- identify the risk-return characteristics of different asset types;
- apply financial analysis techniques to a range of real estate problems;
- understand the importance of capital structure in financial decisions;
- analyse cashflow problems using appropriate financial techniques;
- analyse and price real estate securities.

### Texts

No previous knowledge of real estate valuation is assumed. Knowledge of discounted cash flow analysis and corporate finance principles is helpful and may be found in any introductory finance textbook, for example:

- Brealey, R A and Myers, S C, (2010), *Principles of Corporate Finance*, 10<sup>th</sup> Edition, Boston: McGraw Hill.
- Ross, S., Westerfield, R. and Jordan, B. (2012) *Fundamentals of Corporate Finance*, 10<sup>th</sup> edition, Boston: McGraw-Hill.
- Cuthbertson, K. and Nitzsche, D. (2008) *Investments*, 2<sup>nd</sup> Edition Chichester: Wiley.

While there is no set textbook, real estate texts suitable for the module include:

- Baum, A. & Crosby, N. (2007), *Property Investment Appraisal*, 3<sup>rd</sup> edition, London: Routledge.
- Baum, A. and Hartzell, D. (2011): *Global Property Investment - Strategies, Structures, Decisions*, Oxford: Wiley Blackwell.
- Brueggeman, W. and Fisher, J. (2010) *Real Estate Finance and Investments*, 14<sup>th</sup> Edition, Boston: McGraw-Hill International.
- Geltner, D., Miller, N., Clayton, J. and Eichholtz, P., *Commercial Real Estate Analysis and Investments*, Mason OH: Thompson-South-Western.

Lizieri, C. (2009), *Towers of Capital*, Oxford: Wiley-Blackwell provides an overview of office market dynamics in major cities that informs much of the content of the module. Further readings might draw from:

- Ball, M., Lizieri, C., and MacGregor, B.D. (1998) *The Economics of Commercial Property Markets*, London: Routledge.
- Chan, S. H.; Erickson, J. and Wang, K. (2003) *Real Estate Investment Trusts: Structure, Performance and Investment Opportunities* Oxford: Oxford University Press.
- Fabozzi, F. (2015) *The Handbook of Mortgage Backed Securities, 7<sup>th</sup> Edition*, Oxford: Oxford University Press.
- Imperiale, R. (2002) *Real Estate Investment Trusts: New Strategies for Portfolio Management*, New York, John Wiley and Sons Inc.
- Linneman, P. (2011) *Real Estate Finance and Investments*, 3<sup>rd</sup> Edition, Philadelphia: Linneman Associates.

Additional readings, articles and references and exercises will be provided over the course of the module and placed on the Moodle RE01 module site.

### Provisional Teaching Schedule

This provides guidance as to content but is subject to alteration.

1. Corporate finance introduction
2. Financial maths & discounted cash flows
3. Capital structure and WACC
4. Capital structure, continued
5. Portfolio theory
6. CAPM and risk factor models
7. Financial options and real options
8. Flexibility, land value, real options
9. Debt and leverage
10. Money markets / fixed income / mortgages
11. MBS / ABS 1: Structures and markets
12. MBS / ABS 2: Pricing and risk
13. REITs & Property companies
14. REITs: Property or security?
15. REITs: Capital structure and governance
16. Derivatives: Synthetic exposure to real estate

### Assessment

There will be one coursework assignment carrying a weighting of	<b>50%</b>
There will be a two-hour examination carrying a weighting of	<b>50%</b>

In addition, there will be a number of formative exercises and assignments to enable students to gain expertise in analytic techniques and financial applications. These exercises will be discussed during 6 supervision meetings that augment the lectures. Students will need a decent quality calculator and access to Excel via a PC or laptop.

## RE02 Real estate finance and investment

**Offered:** Michaelmas and Lent Terms  
**Coordinator:** Professor Colin Lizieri  
**Lecturer:** Colin Lizieri, Natalie Bayfield, Marc Mogull, Nick Mansley

### Introduction

This pathway core module provides an introduction to investment and finance applications in commercial real estate markets. In parallel with the corporate finance content of RE01, the module will set out key concepts and analytic techniques used to understand the dynamics of real estate markets. In doing this, it draws on principles and concepts from financial economics, urban economics, real estate economics and valuation, and applies them to the complex property asset class. We examine the structure of the market, how prices are formed in occupier and investment markets, financial and investment modelling, property development and the investment and fund strategies employed by professional and institutional investors with an emphasis on the trade-off between risk and return.

### Aims

The principal aim of this module is to convey an understanding of the principles guiding the operation and functioning of real estate markets and the analytic tools used in real estate finance and investment. At the end of the module, students should have gained insights into modelling techniques for assessing real estate development and investment opportunities and risk management strategies. Practical aspects of sourcing, processing and analysing relevant datasets will also be emphasised so that participants will acquire the practical skills necessary for advanced real estate market analysis and decision-making in the commercial property market. This module also aims to enable students to critically reflect on these approaches and their limitations in a context of evolving modelling techniques and data capabilities.

### Texts

No previous knowledge of corporate finance or real estate valuation is assumed. However, an understanding of discounted cash flow analysis and corporate finance principles is vital and (in addition to the material covered in RE01) supporting material may be found in any of the introductory finance textbooks listed for the RE01 module.

While there is no set textbook, real estate texts that will provide useful material for the module include:

- Ball, M., Lizieri, C., and MacGregor, B.D. (1998) *The Economics of Commercial Property Markets*, London: Routledge [this is out of print now and really needs a new edition, but if you can source a copy might provide a helpful overview].
- Baum, A. & Crosby, N. (2007), *Property Investment Appraisal*, 3<sup>rd</sup> edition, London: Routledge [good overview, from a UK investment perspective, of investment valuation processes]
- Baum, A. and Hartzell, D. (2011): *Global Property Investment - Strategies, Structures, Decisions*, Oxford: Wiley Blackwell [A good all round introduction both for the module and the programme in general]
- diPasquale, D. and Wheaton, W. (1996) *Urban Economics and Real Estate Markets*, Prentice Hall [this is out of print, but there should be physical and digital copies around]

- Geltner, D., Miller, N., Clayton, J. and Eichholtz, P., *Commercial Real Estate Analysis and Investments*, Mason OH: Thompson-South-Western [Another good all round introduction, albeit with a strong US focus]
- Linneman, P. (2011) *Real Estate Finance and Investments*, 3<sup>rd</sup> Edition, Philadelphia: Linneman Associates [an eccentric but interesting take on real estate investment techniques, very US-oriented].
- Wyatt, P. (2013) *Property Valuation in an Economic Context*, 2<sup>nd</sup> Edition, Wiley Blackwell [a more conventional, UK-focussed view of real estate valuation techniques].

Lizieri, C. (2009), *Towers of Capital*, Oxford: Wiley-Blackwell provides an overview of office market dynamics in major cities that informs much of the content of and context for the module.

For an old, but interesting, insight into the real estate process, you might benefit from reading:

Goobey, A.R. (1992), *Bricks and Mortals: Dreams of the 80s and the Nightmare of the 90s — Inside Story of the Property World*, Random House Business Books.

Development processes (from a US and UK perspective respectively) are covered in:

Peiser, R.B. and Hamilton, D. (2012), 3<sup>rd</sup> ed., *Professional Real Estate Development: The ULI Guide to Business*, Urban Land Institution, Washington D.C.

Ratcliffe, J., Stubbs, M., and Keeping, M. (2009), 3<sup>rd</sup> ed., *Urban Planning and Real Estate Development*, Routledge.

Additional readings, articles and references and exercises will be provided over the course of the module and placed on the Moodle RE02 module site.

### **Provisional Teaching Schedule**

This provides guidance as to content but is subject to alteration.

#### **Michaelmas Term:**

1. Real Estate Markets: Institutional Structure etc. (Lizieri)
2. Real Estate Economics, Four Quadrant, Pricing Processes – I (Lizieri)
3. Real Estate Economics, Four Quadrant, Pricing Processes – II (Lizieri)
4. Real Estate Valuations and Appraisals, Property Indices (Lizieri)
5. Real Estate Modelling I (Bayfield)
6. Real Estate Modelling II (Bayfield)
7. Real Estate Modelling III (Bayfield)
8. Real Estate Modelling IV (Bayfield)

#### **Lent Term (TBC):**

9. Development Economics & Finance I – Intro, highest and best use, economics of development (Mogull, TBC)
10. Development Economics & Finance II Market analysis (Mogull)
11. Development Economics & Finance III: Risk and development (Mogull)

12. Development Economics & Finance IV: Financial feasibility / decision making, development funding (Mogull)
13. Private Real Estate Vehicles and Strategies I (Mansley)
14. Private Real Estate Vehicles and Strategies II (Mansley)
15. Private Real Estate Vehicles and Strategies III (Mansley)
16. Private Real Estate Vehicles and Strategies IV (Mansley)

### **Assessment**

There will be one coursework assignment carrying a weighting of **50%**  
There will be a two-hour examination carrying a weighting of **50%**

In addition, there will be a number of formative exercises and assignments to enable students to gain expertise in principles of real estate analysis as well as modelling techniques and investment strategies. These exercises will be discussed during six supervision meetings that augment the lectures. Students will need a decent quality calculator (see above for those calculators permissible in examinations) and access to Excel via a PC or laptop.

## RE03 Real estate development process

**Offered:** Lent Term  
**Co-ordinator:** Dr Franz Fuerst  
**Lecturer(s):** Franz Fuerst, Lawrence Chadwick

### Aim

Developing real estate is a complex, risky, time-consuming, capital intensive, multi-disciplinary endeavour for production of a unique product. The RE03 module provides students with an introduction to the conceptual, practical and procedural aspects of real estate development set within the macro and microenvironment of delivery.

It focusses on deconstructing the development process into its constituent parts and rebuilding them as appropriate to sector, risk profile and sequence. It will examine the roles of stakeholders and professionals involved in planning and development of new property.

By understanding of the steps involved in the process from initiation, design, feasibility calculation to financing and construction a route map will evolve. While the focus of this module is on the development process, players and planning aspects, basics of development appraisal and capital budgeting will also be reviewed, such as strategic interaction, decision making under uncertainty and risk management.

The module begins with a market perspective on property development and market sector cycles. It then proceeds with a step-by-step analysis of the phases and players in the real estate development process. These include conceptualisation and marketability analysis, site planning and acquisition, the construction process, debt and equity sourcing as well as risk measurement and management techniques. By way of practical examples it will call upon case studies of development projects.

### Keyword Syllabus

#### Lectures

##### Lecture One: Introduction and Market Analysis

Introduction to the Course, Objectives and Assessment Scheme of the Course, Module Project. Sector Analysis and Cycles., Demand and Supply, Defining Development. Why Develop, Market Research.

##### Lecture Two: Development Models

Review of Development Models and Sequential Stages of Development.

##### Lecture Three: Roles & processes

Roles of Professionals and Stakeholders in the Development Process.

##### Lecture Four: Development Site Appraisal

Highest and Best Use Concepts in Land and Property Development, Measurement. Methods of Valuation and Cost estimating. Analysing Data. Rent and Occupational Contracts. Financial Analysis and Viability - Will It Make Money? Development Appraisal Residual Method. Dealing with Risks and Uncertainty. Financing the Project, Capital Structure, Debt, Equity, Mezzanine Finance.



Lecture Five: Land Acquisition & Assembly

Site Assembly Options, Restrictions over Land, Physical Site Appraisal and Impact. Site Looking for a Use or Use Looking for a Site, Ramifications.

Lecture Six: Planning Regulations, Environmental and other Due Diligence  
Development Valuation

Planning Law and Development Control, Planning Obligations, Appeals and Judicial Review, Approvals and Permits, Compulsory Purchase Orders

Lecture Seven: Design and Construction

Trends and Issues in Design and Construction by Property Sector (residential, office, retail, leisure and mixed use). Conceiving the Negotiating the Master Plan; Building Regulations, Dealing with Stakeholders, Estimating Construction Costs.

Lecture Eight: Neighbourhood impacts, transport and accessibility and the property life cycle

Impact of large-scale developments, interaction with local interest groups, final stages of property life cycle, leasing, marketing: disposition, refurbishment and redevelopment,. sustainability.

**Note: This tentative outline of the lecture programme is current as of October 2017. Sequence of subject matter may change. Any material changes to the module will be communicated to participants via Moodle or the intranet.**

### Teaching Method

This course offers a variety of teaching activities including lectures, case discussions and site visits where appropriate. The two hour lectures are usually delivered with a combination of theory, exercises, examples, and cases. Cases taken from real-world situations will be used for analysis.

To facilitate the understanding of the course materials and the analysis of the individual project, we will invite real estate practitioners and City Council officers to give talks on various practical issues of real estate development.

### Assessment

The module will be examined through a set project. The final written report of this project accounts for 100% of the mark. The total word count of the report will be no more than 4,000 words in length.

### Pre-requisites

There are no pre-requisites for taking this course.

### Readings

Brueggeman, W.B and Fisher, J.D. (1997) *Real Estate Finance and Investments*, 10<sup>th</sup> Edition, Irwin-McGraw Hill, Boston. 13<sup>th</sup> ed. 2008.

- Geltner, D. and Miller, N. (2001): *Commercial Real Estate Analysis and Investment. Part VIII: Real Estate Development*. SouthWestern, Thomson Learning.
- Guy, S. and Henneberry, J. (2002): *Development and Developers: New Perspectives on Property*. Blackwell Publishing.
- Miles, M.E., Berens, G. Eppli, M. (2007): *Real Estate Development: Principles and Process*. Urban Land Institute: Washington.
- Peiser, R. B. and Frej, A. B. (2003), 2<sup>nd</sup> Ed., *Professional Real Estate Development: The ULI Guide to Business*, Urban Land Institution, Washington D.C. ISBN: 0-87420-894-7.
- Ratcliffe, J., Stubbs, M., and Keeping, M. (2003), 3<sup>rd</sup> Ed., *Urban Planning and Real Estate Development*, Routledge. ISBN. 978-0415272629.
- Schmitz A. and Brett D. L. (2001), *Real Estate Market Analysis: A Case Study Approach*, Urban Land Institution, Washington D.C. ISBN: 0-87420-868-8.
- Squires, G. and Heurkens, E. (Eds) (2014): *International Approaches to Real Estate Development*. Routledge.

## RE04 The macroeconomy and housing

**Offered:** Michaelmas Term  
**Co-ordinator:** Professor Philip Arestis

### Aims

This course focuses on the behaviour of key macroeconomic variables as they relate to housing, and is taught over eight weeks (two hours per week). It pays particular attention to the economic policy dimension of macroeconomics and how it is expected to affect key housing market variables; empirical evidence will be discussed as necessary. Recent developments that relate to the 'great recession' are particularly emphasised and analysed. Six weeks or so are devoted to the macroeconomic aspects of the course and two weeks or so to the housing market and its interaction with macroeconomic policy.

### Reading

The course assumes no prior knowledge of economics or housing. It is for this very reason that recommended reading for the course will concentrate on two main texts, with further reading material provided below and also during the course as necessary.

#### The recommended texts are as follows:

Chamberlin, G. and Yueh, L. (2006), *Macroeconomics*, London: Thomson Learning (denoted below as CY).

Carlin, W. and Soskice, D. (2006), *Macroeconomics: Imperfections, Institutions and Policies*, Oxford: Oxford University Press (denoted below as CS).

#### Also recommended is the following paper:

Arestis, P.: *Inflation Targeting: A Critical Appraisal*. Available on the Land Economy Department Intranet [(Published under the title: "A Critical Appraisal of the New Consensus Macroeconomics", in P. Arestis (ed.), *Microeconomics, Macroeconomics and Economic Policy: Essays in Honour of Malcolm Sawyer*, (Palgrave Macmillan, 2011)].

The texts and paper to which we have just referred are mainly for the macroeconomy parts of the course. The main reference for the housing market aspects of the course is the following text:

Arestis, P. and Karakitsos, E. (2010), *The Post 'Great Recession' US Economy: Implications for Financial Markets and the Economy*, Basingstoke: Palgrave Macmillan. (denoted below as AK1).

#### Further reading:

Angeriz, A. and Arestis, P. (2007), "Monetary Policy in the UK", *Cambridge Journal of Economics*, Vol. 31, No. 6, November.

Arestis, P. (2007), *Is There a New Consensus in Macroeconomics*, Basingstoke: Palgrave Macmillan.

Angeriz, A. and Arestis, P. (2007), "Monetary Policy in the UK", *Cambridge Journal of Economics*, Vol. 31, No. 6, November.

Arestis, P. (2007), *Is There a New Consensus in Macroeconomics*, Basingstoke: Palgrave Macmillan.

Arestis, P. (2009), "Fiscal Policy within the 'New Consensus Macroeconomics' Framework", in J. Creel and M. Sawyer (eds.), *Current Thinking on Fiscal Policy*, Basingstoke: Palgrave Macmillan.

Arestis, P. (2016), "Main and Contributory Causes of the Recent Financial Crisis and Economic Policy Implications", in P. Arestis and M. C. Sawyer (eds.), *Emerging Economies During and After the Great Recession, Annual Edition of International Papers in Political Economy*, Basingstoke: Palgrave Macmillan.

Arestis, P. and Karakitsos, E. (2005), "On the US Post-'New Economy' Bubble: Should Asset Prices be Controlled?", in P. Arestis, M. Baddeley and J. McCombie (eds.), *The New Monetary Policy: Implications and Relevance*, Cheltenham: Edward Elgar Publishers (denoted below as AK2).

Arestis, P. and Karakitsos, E. (2011a), "Origins of 'Great Recession'", mimeo. Available on the INTRANET, Department of Land Economy, University of Cambridge (Published under the title: "An Analysis of the Causes of the 'Great Recession' and Some Policy Implications" in T. Niechoj, Ö. Onaran, E. Stockhammer, A. Truger and T. van Treeck (eds.), *Stabilising an Unequal Economy? Public Debt, Financial Regulation, and Income Distribution*, Metropolis-Verlag, Marburg, 2011).

Arestis, P. and Karakitsos, E. (2011b), "Financial Stability and Proposals to Restore it", mimeo. Available on the INTRANET, Department of Land Economy, University of Cambridge.

Arestis, P. and Karakitsos, E. (2013), *Financial Stability in the Aftermath of the Great Recession*, Basingstoke: Palgrave Macmillan.

Bank of England (BoE) (2009), "Quantitative Easing Explained". Available at: <http://www.bankofengland.co.uk/monetarypolicy/pdf/qe-pamphlet.pdf>.

Joyce, M., Tong, M. and Woods, R. (2011), "The United Kingdom's Quantitative Easing Policy: Design, Operation and Impact", *Bank of England Quarterly Bulletin*, Vo. 51, No. 3, pp. 200-212.

Maclennan, D. (1982), *Housing Economics: An Applied Approach*, London: Longman.

Meen, G. (2003), "Housing, Random Walks, Complexity and the Macroeconomy", in T. O'Sullivan and K. Gibb (eds.), *Housing Economics and Public Policy*, Oxford: Blackwell Publishing.

Muellbauer, J. (1990), "The Housing Market and the UK Economy: Problems and Opportunities", in J. Ermisch (ed.), *Housing and the National Economy*, Aldershot: Gower for NIESR.

Oxley, M. (2004), *Economics, Planning and Housing*, (Chapter 2, entitled: "Markets, Development, Institutions and Efficiency"), Basingstoke: Palgrave Macmillan.

## Course Outline

*The following topics will be covered.*

### WEEK 1: INTRODUCTION AND CIRCULAR FLOW OF INCOME

- introduction: aim of the course and short summary;
- circular flow of income;
- real sector: consumption, investment, government expenditure and taxation.

**Reading:** CY: chapter 1 and pages 178-183. CS: chapters 1, 2.1, 2.2.

### WEEK 2: REAL SECTOR

- consumption;
- investment;
- government expenditure and taxation.

**Reading:** CY: chapters 2, 3, 4. CS: chapters 6 and 7. Arestis (2009).

### WEEK 3: MONETARY SECTOR

- monetary sector: demand for and supply of money;
- IS and LM framework;
- open economy;
- economic policy implications.

**Reading:** CY: chapters 5, 7 and 12. CS: chapter 2.3, 2.4.

### WEEK 4: INFLATION

- inflation;
- economic policy implications.

**Reading:** CY: chapter 10. CS: chapter 3.

### WEEKS 5 AND 6: NEW CONSENSUS MACROECONOMICS AND THE 'GREAT RECESSION'

- new consensus in macroeconomics;
- economic policy implications;
- assessing the New Consensus Macroeconomics;
- 'Great Recession'.

**Reading:** CY: chapter 8. CS: chapters 2.5, 2.6, 2.7, 5. Arestis (2007): chapters 1, 2; also Notes available on the Land Economy Department Intranet. Arestis (2016). Angeriz and Arestis (2007). Arestis and Karakitsos (2011a, 2011b, 2013). BoE (2009). Joyce et al. (2011).

### WEEK 7: HOUSING AND MODELLING HOUSING

- housing market: demand and supply
- a model for the housing market

**Reading:** AK1: chapter 7. MacLennan (1982): chapters 2 and 3. Oxley (2004).

### WEEK 8: HOUSING AND ECONOMIC POLICY

- housing market and the macroeconomy

**Reading:** AK1: chapter 7. AK2. Meen (2003). Muellbauer (1990).

## Assessment

Students will be assessed by a 4,000 word project.