



Cambridge Summer Institute

Academic Outline 2017

Overview

Magdalene College (University of Cambridge, UK) and CBL International a WorldStrides organization, are inviting students and working professionals to participate in a 4-week session of *Cambridge Summer Institute at Magdalene College*. Delegates can also extend their stay for up to 8 weeks in Cambridge or combine this with our sister programme in Oxford, *Oxford Summer Institute* offered jointly with Oriel College (University of Oxford, UK).

Four sessions will be held in Cambridge:

Session I: 2 July – 29 July 2017
 Session II: 16 July - 12 August 2017
 Session III: 30 July - 26 August 2017

Session IV: 13 August - 09 September 2017

In Session IV Weeks 1 & 2 are in Cambridge and Weeks 3 & 4 are in Oxford

This summer programme will give all participants the opportunity to attend cuttingedge lectures on several subjects. Delegates will appreciate the strong focus on International Business Management, International Relations, Politics, History, and Business and Legal English. This programme is the only extensive summer programme in Cambridge that focuses on international relations, politics and dispute settlement, history, international business and management, and business and legal English.

A certificate will be jointly issued by Magdalene College and CBL International to the participants. *Cambridge Summer Institute* is a certificate programme that may be accountable for optional credits depending on the requirements of the home institution/school/university.

Combining lecture time, preparation, study time, and tests, each week is designed to be the equivalent to 3 ECTS credits or 1.5 US credits. Each week delegates are invited to participate in one examination. All programmes offered by CBL International Education in the UK are run by CBL International Oxbridge Programmes Ltd. We are





proud to announce that CBL International Oxbridge Programmes Ltd is accredited by the British Accreditation Council.

The following courses will be offered during the programmes:

Note: All the below-mentioned courses are subject to possible changes.

International Relations and Politics Courses

- 1. International Relations European Union as a Global Power and Political Systems in the Far East
 - **a. European Union as a Global Power:** The decision by the Nobel Committee to award the 2012 Nobel Peace Prize to the European Union has been seen by many as the best choice. Despite the current crisis gripping the EU, the Nobel Committee chose 'to focus on what it sees as the European Union's most important result: the successful struggle for peace and reconciliation for democracy and human rights'. Nevertheless the decision faces us with a series of questions: Is the European Union actually greater than the sum of its parts? Have the achievements helped to turn the European Union into a unique global player? Can it project its soft and hard powers beyond European borders? Can we consider the European Union as a global power in other areas, such as foreign affairs, diplomacy, and security? This course will provide participants with the historical, theoretical, and practical understanding of the European Union as a global political power.
 - **b. Political Systems in the Far East:** The three leading states of East Asia, China, Japan, and the Republic of Korea, are all in their own current self-understanding ancient states. Their territories have been expanded and consolidated over thousands of years to create nations formed as communities through a deep and purposeful process of political construction. The category of democracy is one which has reached them relatively recently and unmistakably from the outside. Two of the three now have political and legal orders modeled on the European or American paradigm of representative democracy, with constitutions and clearly competitive elections between rival political parties to select their national governments. One, the People's Republic of China, is governed very differently. This course considers the historical process of interpreting the western category of democracy as a source of political authority and a basis for effective government in all three countries. It explains why the political forms in which they are now embodied have limited credibility in all three countries, and





why those forms now make such an unimpressive contribution to handling the political challenges which each now conspicuously faces.

- 2. International Politics International Organisations: this course will use a combination of theoretical and cutting-edge empirical research to critically examine the role of international institutions in promoting cooperation in several different areas of global politics. The introductory sessions entitled 'Institutions and Cooperation: Competing Theoretical Frameworks' will introduce students to basic conceptual and theoretical questions in the study of international organisation and then delegates will move on to a thematic study of the functioning and impact of international organisations in different issue areas. Starting with 'The International Organisation of Security', the course will look at the theme of 'Protecting the Global Environment'-before looking at the question of the "International Organisation of Human Rights".
- 3. International Relations and International Security: This course will provide an introduction to international relations and international disputes. Students will explore the historical roots of modern day disputes in international relations, as well as systemic obstacles to dispute settlement. While the first part of the course will focus on a theoretical and historical overview, the second part of the course will focus on an ongoing dispute, namely the civil war in Syria, in order to illustrate the insights from the earlier lectures on an ongoing case study.
- 4. International Relations World Trade Organization (WTO): This course discusses the history, objectives, and institutional aspects (trade negotiations, decision-making, and dispute settlement) of GATT and the WTO. It also includes case studies and casework. There is a particular focus on the legality of measures adopted for the protection of the environment and human rights. The lecture also focuses on the more jurisprudential aspects of the WTO dispute settlement system. It also considers trade in services, which is of increasing importance to WTO Members and which is disciplined in a manner similar to trade in goods. It turns then to the regulation of free trade agreements and customs unions and also touches on the development dimension of the WTO, a topic of increasing importance given the Doha Development Agenda currently being negotiated by WTO Members.
- 5. Association of South East Asian Nations (ASEAN): The course analyzes situation in Southeast Asia during the Cold War period, emergence of regionalization leading to the formation of ASEAN. It discusses the role and function of ASEAN, impact on ASEAN of regional politics and economy, ASEAN's norms and practice and transformation of ASEAN in response to international, regional and





subregional changes. The lectures also focus on the relationship with China, what the challenges and opportunities for China and the future of ASEAN.

International Business & Management Courses

- 1. Entrepreneurship Evaluation, Creation, and Funding of new Ventures: Glamorised as an alternative career choice, entrepreneurs like Bill Gates, Mark Zuckerberg and Li Kashing are changing the world. As part of this course we will look at cases of success and failure to understand which competencies, skills, and tools are necessary to evaluate, create, and guide your own business, or to support an employer in launching and growing an entrepreneurial venture.
- 2. Banking and Finance: This course will familiarise delegates with current trends and look deeper at individual practices, methods and financial instruments within the banking and finance sector Students will develop an understanding of today's markets and the forces influencing growth and recession. By looking at case studies, students will be able to identify market trends and analyse problems emerging in the market place.
- 3. Business Strategy Innovation, Organisation, and Markets: Successful entrepreneurs, leaders, and managers understand what innovation is and how it can be generated and managed to create sustained competitive advantage. During this course delegates will look at the interplay of innovation across individuals, organisations, and markets that change the nature of competition by destroying industries and creating new ones. The course will cover five critical aspects of innovation studies: What are the sources of innovation, types of innovation, how it occurs, differs, and diffuses. The course will also look at how innovative companies like Apple and Amazon create new markets.
- 4. Organisation of Multinational Corporations and Leadership: What is it like to lead and work in a multinational corporation? This course exposes delegates to the challenges and dilemmas that managers face in multinational corporations. Delegates will learn how multinationals are organised, and what unique opportunities and challenges today's world offers to businesses operating across different geographical, cultural, and institutional borders. The course will move back and forth between a practical and a theoretical perspective including the analysis of different international cases and multinational companies such as Toyota, IBM, FedEx, or Google.
- **5. Business Model Development:** This course will introduce delegates to a simple, robust model for developing and analysing new business proposals whether as





part of entrepreneurial ventures or new lines of business within existing firms. Students will learn

- The centrality of the Value Proposition and different types of value
- The importance of elegant and functional design
- How to analyse a cost structure
- The different possible models of Revenue Generation
- How to build a business with partners and channel members
- How to critically evaluate competing business models
- **6. How Silicon Valley Works:** This short course provides an overview of the business and technical topics necessary for understanding Silicon Valley. It will discuss how money, technology, and culture combine to make Silicon Valley a distinctively successful place for innovation. Students will learn:
 - How startups are financed and managed
 - Understand the distinct norms and values that drive startups
 - Acquire an understanding of the technologies that underpin current Silicon Valley firms
 - Become familiar with the cultural and social issues of Silicon Valley
- **7. Game Theory:** This course will cover some basic concepts in game theory, illustrated with applications: Utility functions, Simultaneous games including Nash equilibrium in pure and mixed strategies, Dominant strategies and Stability of equilibria and Non-simultaneous games like the Stackelberg equilibrium, Subgame perfect equilibrium and Supporting cooperation and collusion. It will also talk about Game theory in political economics and international relations.
- 8. Chinese Economics and Outbound Investment: China is the new economic powerhouse of the 21st century. Many international corporations are already creating a presence in Chinese markets, either by moving production to China to save costs or marketing their products to Chinese customers in major cities like Beijing, Shanghai, and Hong Kong. Consumer and luxury brands such as Volkswagen, Apple, Louis Vuitton and Prada are notable success stories. However Ebay, Mediamarkt, Best Buy and Google have not found the same ease at market entry. On the other hand Chinese entrepreneurship is developing rapidly and Chinese brands like Alibaba, Haier, Tsingdao Beer, Huawei, or even Lenovo are seeing considerable growth. This course will give delegates an overview of the various options to start doing business in China, present successful case studies of Chinese entrepreneurs, and analyse the successes and failures of international business in China.
- **9. International Trade:** This course explores the interaction between national economies through the flow of imports and exports, multinational firms, the role





and position of the WTO in the global economy, with an emphasis on the theoretical models of international trade, global production structures, and associated policies. This course consists of a number of 90-minute lectures, some of which will be devoted to discussions, classroom games, and discussions of assign-ments.

10. Human Resource Management, Innovations & Organization: Human Resource Mangement, usually referred to as HR, involves everything related to the employer-employee relationship and is about supporting and managing people and associated processes. It is seen as a core business function essential to the organisation's effective operation and survival. Most larger organisations have their own designated HR department, which allows for organisation-specific innovations in the way people are being managed. This is an introductory Human Resource Management course that aims to provide an overview of key themes and innovations in HR. It is supplemented by real life examples and hands-on sessions relevant to future people managers.

History Courses

- 1. British Economic History I: This course will look at the history of economics from the Renaissance period including Machiavelli up until Industrialisation. Delegates will learn about the foundations of economics from a historical context and how these original theories were applied. In addition, the evolution of economics over these centuries will be studied in order for delegates to understand how it has changed.
- 2. British Economic History II: Following on from Economics I, this course will analyse the development of economics from Industrialisation until post World War II and the collapse of the Soviet Union. Delegates will look at the development of the modern economic system and how it has been adopted globally as well as identifying how historical events have impacted on economics.
- **3. British History: The World of Magna Carta:** The Magna Carta has been established as one of the most eminent documents throughout world history and recently celebrated its 800th anniversary. This course provides participants with essential knowledge about the issue of the grant, its implications and effect on history by looking at more modern examples of declarations, and treaties such as the American Declaration of Independence.
- **4. The Birth of Modern British:** In this course we will discover how this cultural revolution in postwar Britain was achieved. We will examine the birth of the teenager and the advent of mass marketing and culture industries, such as popular music, during the late 1950s and early 1960s. We will analyse the phenomenon of 'Beatlemania'-in other words, how four working-class lads from





a Northern industrial city, Liverpool, became the most significant and creative force in the history of popular music-either at the time or since. In addition, the course will explore the influences shaping British cultural life since the Second World War: for example, the process of 'Americanisation' and what this entailed. Furthermore, the course will examine the revolution in the lives of young people brought about by the emergence of mass higher education in Britain; the increase in affluence and the greater social and occupational mobility of the era. The course will introduce students to innovative new historical work being undertaken on Postwar British Culture by historians such as Dominic Sandbrook, David Fowler, and Doug Rossinow (from the US). We will discuss the pivotal places in the cultural history of postwar Britain, such as Carnaby Street, the fashion centre and Mod capital of the 1960s; Abbey Road, where the Beatles recorded their pathbreaking albums 'Abbey Road' and 'Sergeant Pepper's Lonely Hearts Club Band'; and the London School of Economics, where the first student 'sit-ins' in Britain took place-and in fact, the crucible of the student revolution in 1960s' Britain. The course will illuminate a period of recent British history when British culture was at the forefront of creative ideas and global influence.

Business and Legal English Course

Business and Legal English: During this course, the delegates will learn about the economic risks that underlie in each deal, and the legal means that are used towards their mitigation. Through the analysis of actual deals, delegates will be able to improve their understanding of transactional risks, enhance their commercial awareness, and learn the fundamentals of business and law. Moreover, they will learn and develop their negotiation skills in an interactive and practice-oriented manner.

Additional Course Features

The following features are offered complimentary in every session for all delegates.

- 1. Visit to London: It is essential not only to learn the theory of economics and international law but also to understand some of the important practical aspects. Therefore included in the programme is a trip to the City of London where students will have the chance to visit some of the following: British and international institutions, city law firms, Inns of Court, banks, corporations, and law courts. Previously visited institutions are, among others:
 - Thomson Reuters
 - Fountain Court Chambers
 - UBS
 - Westlaw

- The Royal Courts of Justice
- Lincoln's Inn
- Middle Temple Inn
- Bank of England



Cambridge Summer Institute



- International Sugar Association
- Whitehouse Consultancy
- Incorporated Council of Law Reporting
- London Court of International Arbitration

- Harvey Nichols
- Rouse
- BBC
- Houses of Parliament
- Amnesty International
- International Maritime Organization
- 2. **Cultural Activities in Cambridge:** Throughout the programme, delegates will have the opportunity to get to know the city of Cambridge through a variety of activities
 - Cambridge Walking Tour
 - Fitzwilliam Museum
 - College Tours
 - Punting
 - Film Nights

- Pub Crawl
- Quiz Night
- Academic and Cultural Evening Talks
- Sports Activities
- River Cruise

Faculty

CBL International, Magdalene College, and all involved colleges are composing a strong team of faculty members including professors, university lecturers, university researchers, college tutors, and DPhil candidates from the University of Oxford (UK) and the University of Cambridge (UK). We also invite teachers and lecturers from other prestigious universities such as London School of Economics and University of California, Berkeley, and other selected institutions to deliver course material.

In previous years the following faculty members (selection) have taught with Cambridge Summer Institute at Magdalene College:

- Professor John Dunn, Emeritus Professor of Political Theory, King's College, University of Cambridge (UK)
- Professor Raphael Silberzahn, IESE Business School, University of Navarra
- **Dr David Robinson,** Haas School of Business, University of California, Berkeley
- Dr Lorand Bartels, University Senior Lecturer in Faculty of Law, Fellow of Trinity Hall, University of Cambridge (UK)
- **Dr Catherine MacKenzie,** University Lecturer of International Environmental Law, Selwyn College, University of Cambridge (UK)





- Dr Povilas Lastaukas, Faculty of Economics, University of Cambridge (UK)
- Dr Ayse Zarakol, Department of Politics and International Studies, University of Cambridge (UK)
- Dr Alexandra Bocse, Department of Politics and International Studies, University of Cambridge (UK)
- Dr David Fowler, A Life Member of Clare Hall, University of Cambridge(UK)
- Dr Alexis Litvine, Faculty of History, University of Cambridge (UK)

Certificate, Academic Transcript, and Accreditation

A certificate will be jointly issued by Magdalene College and CBL International to participants. *Cambridge Summer Institute* is a certificate programme that may be accountable for optional credits depending on the requirements of the home institution/school/university.

The Academic Transcript will show the courses chosen and attended by each delegate. It will indicate the workload of each course as well the results of exams and assignments. Each week, one course will be taught. Combining lecture time, preparation, study time, and tests, each week is designed to be equivalent to 3 ECTS credits or 1.5 US credits. Each week delegates are invited to participate in one examination. All programmes offered by CBL International Education in the UK are run by CBL International Oxbridge Programmes Ltd. We are proud to announce that CBL International Oxbridge Programmes Ltd is accredited by the British Accreditation Council.

Combination of Oxford Summer Institute and Cambridge Summer Institute

CBL International is jointly offering Oxford Summer Institute with Oriel College (University of Oxford, UK) and Cambridge Summer Institute in collaboration with Magdalene College (University of Cambridge, UK). This academic programme is the only extensive summer programme in Oxford that focuses on law, economics, philosophy, politics, computer science, physics, and mathematics, British literature and academic writing, and business and legal English. Delegates have the possibility to combine these two outstanding academic programmes and spend up to 10 weeks in Oxford and 8 weeks in Cambridge. Please contact our Academic Programme and Partnership Managers for further details.

Tuition & Accommodation





Tuition Fee (4 weeks): RMB 32,500

For USTC RMB 22,800

Tuition fee includes all lectures, course materials, hand-outs, a corporate day in London, academic evening talks, scheduled cultural activities, and excursions.

Accommodation (4 weeks)

RMB 16,400

Accommodation fee includes a single room with shared bathroom facilities in a college of the University of Cambridge (in total 27 nights) and breakfast in college dining hall.

Extra charge for full board (lunch and dinner served daily)

RMB 6,250

Application and Contact Details

Student groups can apply through a university/school representative. Qualified representatives will be individual professors, programme directors, or head of international offices.

For further information regarding *Cambridge Summer Institute* and the application process, please contact:

Valen Li

Assistant Programme Director of Cambridge Summer Institute

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Oxford Summer Institute

Academic Outline 2017

<u>Overview</u>

Oriel College (University of Oxford, UK) and CBL International, a WorldStrides organization, are inviting students and working professionals to participate in a 4-week session of *Oxford Summer Institute at Oriel College*. Delegates can also extend their stay for up to 10 weeks in Oxford or combine this with our sister programme in Cambridge, *Cambridge Summer Institute* offered jointly with Magdalene College (University of Cambridge, UK).

Four sessions will be held in Oxford:

Summer Session I: 02 July - 29 July 2017
 Summer Session II: 16 July - 12 August 2017
 Summer Session III: 30 July - 26 August 2017

• Summer Session IV: 13 August - 09 September 2017

This programme will give all participants the opportunity to attend cutting-edge lectures on several subjects. Delegates will appreciate the strong focus on global economics and policy trends, international law, philosophy, British literature and academic writing, and natural science. This programme is the only extensive summer programme in Oxford that focuses on law, economics, philosophy, politics, computer science, physics, and mathematics, British literature and academic writing, and business and legal English.

Oriel College and CBL International will jointly issue a certificate to the participants. Oxford Summer Institute is a certificate programme that may be accountable for optional credits depending on the requirements of the home institution/school/university.

Combining lecture time, preparation, study time, and tests, each week is designed to be the equivalent to 3 ECTS credits or 1.5 US credits. Each week delegates are invited to participate in one examination. All programmes offered by CBL International Education in the UK are run by CBL International Oxbridge Programmes Ltd. We are proud to announce that CBL International Oxbridge Programmes Ltd is accredited by the British Accreditation Council.





The following courses will be offered during the programme:

Note: All the below-mentioned courses are subject to possible changes. Applicants who select the Natural Science track, are required to attend Natural Science courses for the weeks that they are in Oxford and when these courses are available and offered.

PPE & Philosophy Courses

- 1. Contemporary Political and Economic Philosophy: This programme gives an insight into the modern philosophical thinking beginning with Machiavelli and the enlightenment. Various philosophical schools and their viewpoints will be discussed and the ideas of John Locke, Adam Smith, and Descartes will be analysed. Concepts of justice, equality, need, and human rights will be addressed including aspects of theories which argue that there is a duty of justice to distribute resources; justice towards future generations; national self-determination, multiculturalism, and the various concepts of a 'just war'.
- 2. Contemporary PPE Ethics and Logic: Since its beginnings in ancient Greece, the Western philosophical reflection on how we should conduct our lives has been closely intertwined with the inquiry into logos, 'reason' or 'reason-ing', practical and theoretical, human or divine. While ethics and logic have developed into two distinct disciplines, different philosophical approaches to normative ethics and meta-ethics are often best understood as springing forth from different conceptions of the role that reason and argument (ought to) play in human morality, and from different assessments of the validity of certain key arguments (or alleged 'fallacies') in ethics, and of the force and implications of certain 'dilemmas' or 'paradoxes'. Competing ethical theories are typically construed dialectically: they argue for the deficiency of the rival theories, and defend themselves by denouncing the shortcomings in the logic of their attackers.

International Economics Courses

1. Global Macroeconomics – Financial Crises and Crashes/Financial Crises and Policy Responses: This course will expose the banking systems and they involvement in the financial crises, utilizing a various set of examples to illustrate key concepts such as the credit crunch and its effects in the real economy in order to later translate into the sovereign debt crises in Europe. This course will also cover subjects such as the unconventional monetary policy and the banking system reform implemented as the result of the financial crises.





- 2. Global Macroeconomics The Economics of Big Health Challenges: This course will discuss and analyse the state of health in the world and the challenges of the next 20-50 years. In addition, delegates will learn how health financing will need to adapt to the challenges of an aging population. Case studies analyzing pandamics, such as SARS, flu, and Ebola, will be looked at in detail to understand how these cross over into the financial market, looking at early warning, and response ideas.
- 3. International Taxation: This course offers an in-depth understanding of international taxation, various aspects of taxation in cross border transactions, historical background of the OECD Model Tax Convention and how it has developed, basic scheme of the convention, role of commentaries, observations, and reservations.
- **4. Development Economics:** This course will give an overview of policy-related issues faced by developing countries from both theoretical and applied perspectives. Topics covered include economic development and economic growth; poverty and inequality; gender discrimination; governance and institutions; media and corruption; natural resources and development; and the effectiveness of foreign aid in assisting developing countries.
- 5. Behavioural Economics: The objectives of this course are to introduce students to the approach and methods of behavioural economics. Psychological and social factors play an important role in human behaviours and decision-making processes. Behavioural economics increase the explanatory power of economics by incorporating these factors in order to provide more realistic psychological foundations for economic analysis.

International & UK Law Courses

- 1. European Business Law: This course will introduce the main concepts in European law and European Business Law giving students a better understanding of the European Legal System.
 - a. **European Business and Economic Law**: This lecture series discusses how the European Union (EU) works: the federal structure of the EU, regulatory competition and federal law making including an overview of the European institutions.
 - b. **European Corporate Law**: This course discusses the European corporate law and the coordination of domestic laws in order to minimise conflicting burdens for cross-border establishment of corporation. It also gives insights of the various options for European corporate structures





and discusses the SA as the latest version of a European corporate structure for multinational companies.

- c. European Competition Law: These lectures are designed to allow general understanding of the core economic concepts of competition in the market economy system within the European Union (EU). As competition law is always connected to consumer protection this important aspect of European law is also covered as part of this lecture series.
- 2. International Business Law: This course gives an insight into selected aspects of legal theory and international business law relevant for running corporations with regards to international trade and commerce.
 - a. Legal Theory: In this lecture series, students gain an in-depth knowledge of the functions of the rule of law in Common law jurisdictions, as well as to consider law in a practical manner. These lectures analyse the nature and importance of rules in legal systems and examine some of the main difficulties associated with the implementation of laws, rules, and regulations.
 - **b.** Intellectual Property Rights: This course will provide an overview of the international legal framework of the protection of intellectual property, enabling the participants to obtain an understanding of the operation of intellectual property rights in international trade. It will also focus on the aspect of management of IP Rights within multinational corporations.
- 3. United Kingdom Corporate & Contract Law: This course will provide delegates with important legal aspects of international mergers and acquisitions. As many international contacts are governed by UK, US, or Hong Kong law, it is important for student to learn about these aspects of common law. Additionally, students will be introduced to the concept of contracts and how British law may govern these.
- 4. International Trade and Maritime Law: This course will examine all the pressing issues of International Trade Law, and will shed light on the emerging trends and challenges in the field. It will offer a comprehensive overview of International Economic Law and explore all the surrounding aspects of trade. Class activities, case law, success stories, and moot court activities will compliment each lecture. Upon completion of this course, students should expect to have a sound and thorough understanding of international trade law irrespective of their academic background. The sea constitutes two-thirds of the entire planet and is of fundamental importance to human activity, sustaining life, providing commerce and navigational routes, and a substantial proportion of our natural resources.





Taking into account the need to regulate such a wide range of sea-related transactions, this course will provide delegates with an understanding of shipping law, maritime law, international trade, and law of the sea.

- 5. **United Kingdom Tort Law:** The course introduces delegates to the basic principles of tort law within a social and economic context. Delegates are given the opportunity to make critical assessment of the law of tort and the way in which it works in practice. It examines the UK dimension through an examination of relevant directives, regulations, and case law of the UK justice system.
- 6. International and UK Banking Law and EU Financial Regulations Reform: The banking industry has recently gone through massive changes, which have changed its structure, the way it operates and the very nature of what was thought to be a stable yet dynamic environment. The systematic nature of the banking sector gives rise to challenges that need expertise in both law and finance in order to be effectively and successfully addressed. The course is designed to be theoretical and practical using case studies, which will enable students to understand the issues that the banking sector faces and provide solutions whilst ensuring the successful and profitable operation and development of the sector.
- 7. **International Criminal Law**: Issues of international law and international justice are at the forefront of public debates to a greater degree than ever before. International law provides the intellectual and the technical underpinnings to large areas of international cooperation, including:
 - the prosecution of war crimes (both internationally and nationally);
 - the legality of the use of force against States (e.g. Libya and Iraq);
 - the scope of human rights protection (e.g. the 'war on terrorism');
 - the international crimes and international criminal tribunal.

Computer Science, Physics, and Mathematics Courses

- 1. Cosmology and Large-Scale Structures: The aim of this course is to present the most relevant theoretical and observational results on which modern cosmology are based. The course covers the basic mathematical framework of the standard cosmological model, its observational motivations and its most important shortcomings. At the end of the course students should be able to understand the main open questions in cosmology, as well as the current and future observational and computational tools used to tackle them.
- **2.** Theoretical Physics: Symmetries and Field Theories: This short course will focus on one of the primary guides to our understanding of modern day physics:





symmetries. In particular, how symmetries can be used to construct gauge theories, the Higgs mechanism and gravity as a gauge theory. Topics covered include Symmetries and field theories, The Higgs mechanism and gravity as a gauge theory, Shift and Galilean symmetries in the early and late universe.

3. Numerical Analysis: Differential equations are one of the most fundamental tools in almost all areas of science. The aim of this course is to give an introduction to the numerical solution of differential equations. Starting with the representation and approximation of functions (continuous objects) by vectors (discrete data), delegates discuss how the basic calculus tasks (differentiation, integration) are done on a computer and move on to solving differential equations. The course will be a combination of lectures and practical computing work.

4. Image Processing & Surface Computing

Image Processing: Image processing uses mathematics to manipulate digital images like from a camera or a medical scanning device. The aim of this course is to give an introduction to diffusion PDEs as a means for image processing. Diffusion processes are used to remove noise while preserving or enhancing features such as edges which play an important role in the human perception of an image. In particular we will discuss edge-stopping, edge-enhancing, and coherence-enhancing diffusion models. Beyond that we will give an overview over other image processing tasks such as image inpainting and image deblurring which can be modelled with PDEs. The course will be a combination of lectures and practical computing work.

Surface Computing: This course introduces numerical solutions of Partial Differential Equations (PDEs) on surfaces using the Closest Point Method. Surface PDEs arise from many applications in physics, biology, and engineering. Among various numerical techniques for solving surface PDEs, the Closest Point Method is easy to implement and it works for a wide range of PDEs on surfaces with complex geometries. This course will cover basic theories, numerics and MATLAB implementations related to the method. On completion of the course, students can potentially solve interesting PDEs on intricate surfaces.

5. Artificial Intelligence: Knowledge Representation and Ontologies: Knowledge Representation is at the heart of the great challenge of Artificial Intelligence: to understand the nature of intelligence and cognition so that computers can exhibit human-like abilities. The course is self-contained and assumes no prior knowledge of Logic or Computer Science. It begins with general background on Classical Logic, Theorem Proving, and Computational Complexity. Then, it turns to specialised logic-based languages that are commonly exploited in applications.





We will put special emphasis on the so-called Ontology Languages, their underpinning formalisations, and their implementation in modern applications.

6. Quantum Computing: In this course participants will survey quantum groups and their relations to the above-mentioned areas of mathematics and mathematical physics. We will look at the Yang-Baxter equation and its relation to knot theory, the definition of quantum groups and the universal R-matrix, the perspective of non-commutative geometry on quantum groups and basic concepts from TQFT and its application to quantum computing. The aim of this course is to give an overview of active areas of research. The required prerequisites are linear algebra. Some knowledge of basic representation theory and ring theory will be useful.

Academic Writing Courses (English Literature & History Oriented)

- 1. English Literature: This course will offer delegates a strong foundation for understanding the various facets of English Literature across eras and genres, tempering historical and ideological depth with attention to textual details. Prose, poetry, and drama will be considered in dynamic ways, inflected by engagement with various political, socio-economic, religious, philosophical, and cultural ideas.
- 2. Academic Writing & Critical Thinking: Students will learn how to identify and critique implicit claims in academic and journalistic writing, what characterises weak arguments and how to formulate strong ones, as well as how to interrogate visual arguments in video or photographic media. Students will also acquire more practical skills, including how to interpret essay questions, how to structure and reference an academic essay, as well as how to write with clarity, brevity and maximum impact.
- 3. Culture and Communities in 20th Century British: In this course we will discover how this cultural revolution in postwar Britain was achieved. We will examine the birth of the teenager and the advent of mass marketing and culture industries, such as popular music, during the late 1950s and early 1960s. We will analyse the phenomenon of 'Beatlemania'-in other words, how four working-class lads from a Northern industrial city, Liverpool, became the most significant and creative force in the history of popular music-either at the time or since. In addition, the course will explore the influences shaping British cultural life since the Second World War. The course will introduce students to innovative new historical work being undertaken on Postwar British Culture by historians such as Dominic Sandbrook, David Fowler, and Doug Rossinow (from the US).





4. Intercultural Communication: This course will look at key academic and practical topics involved in intercultural communication. Drawing on the fields of literary studies, linguistics, anthropology, ethnography, and cultural studies, delegates will analyse topics including, 'Communicating between cultures', 'Translation', 'Verbal and Non-verbal Communication', and 'Cultures and Concepts'.

Business and Legal English Courses

1. Business and Legal Communication: This course is designed to develop an individual's confidence and ability to use English within a professional environment. Covering topics such as negotiation, business presentations, client communication, and self-communication, this course is an excellent preparation for future experience in the business or legal sectors of an English-speaking environment. both with clients and about focus on the reading, writing, and listening skills of the English language in a business context. By being able to understand and use the business language, participants will be able to further their career in both their work quality and building relationships among colleagues and clients. This course will provide delegates the ability to communicate on an international level using precise and correct legal language. Upon completion of the course, participants will improve their confidence in explaining points of law, enhance their drafting and editing skills, and ultimately represent their organisation in a more effective manner.

Additional Programme Features

These features are offered complimentary in each session to all delegates

- 1. Corporate Day in London: It is essential not only to learn the theory of international law and economics but also to understand some of the important practical aspects. Therefore included in the programme is a trip to the City of London where students will have the chance to visit some of the following: British and international institutions, city law firms, Inns of Court, banks, corporations, or courts. Previously visited institutions are, among others:
- Thomson Reuters
- Fountain Court Chambers
- UBS
- Westlaw
- The Royal Courts of Justice
- Lincoln's Inn
- Middle Temple Inn
- Bank of England

- Whitehouse Consultancy
- International Maritime Organization
- International Sugar Association
- Incorporated Council of Law Reporting
- London Court of International Arbitration



Oxford Summer Institute



- Harvey Nichols
- Rouse
- Houses of Parliament

- Amnesty International
- Supreme Court
- 2. Visits and workshops: Delegates of the Computer Science, Physics, and Mathematics courses will also have the chance to go to London, and various institutions or labs in Oxford or Cambridge. As the classroom lectures are good venues for more theoretical content, visits to practical environments are a good opportunity for students to understand how science and technology is applied, and what cutting edge technology is being developed to advance our frontiers in technology, energy and infrastructure.

Possible visits may include:

Institution	Area of Interest	Location
Sharp Laboratories of Europe	Optoelectronics/ IT / Health technology	Oxford
Poyry	Energy engineering and market	Oxford
Culham Centre for Fusion Energy	Nuclear energy/ physics/ engineering	Oxford
Cavendish Laboratory Museum	Physics	Cambridge
Thames Barrier	Engineering/Infrastructure	London
Royal Observatory Museum	General Science/Astronomy	London
Science Museum London	General Science	London

- **3. Cultural Activities in Oxford:** Throughout the programme, delegates will have the opportunity to get to know the city of Oxford through a variety of activities. This is a selection of cultural activities and visits organised in previous years:
- Oxford Walking Tour
- Ashmolean Museum
- Pitt Rivers Museum
- College Tours
- BMW Mini Plant Tour
- Film Nights
- Pub Crawl
- Quiz night

- Academic and Cultural Evening Talks
- Sports activities
- Punting
- River Cruise
- Oxford Castle
- Botanic Gardens
- Blackfriars Dominican Convent

Faculty

CBL International, Oriel College, and all involved colleges are composing a strong team of faculty members including professors, university lecturers, university researchers, college tutors, and DPhil candidates from the University of Oxford (UK) and the University of





Cambridge (UK) to teach your courses. In the meantime, some teachers and lecturers will also be invited from other prestigious universities such as the London School of Economics and University of California, Berkeley, and other selected institutions.

The following faculty members worked with Oxford Summer Institute in previous years (selection):

- Professor Keith Hawkins, Emeritus of Law and Society at University of Oxford (UK), Fellow Emeritus of Oriel College, University of Oxford (UK)
- Professor Stefan Enchelmaier, Professor od European and Comparative Law, Lincoln College, University of Oxford (UK)
- Professor Luca Castagnoli, Associate Professor of Ancient Greek Philosophy, Oriel College, University of Oxford (UK)
- **Professor Bernardo Cuenca Grau,** Supernumerary Fellow of Oriel College, Professor at Department of Computer Science, University of Oxford (UK)
- **Professor Kobi Kremnitzer,** Fellow and Tutor of Mathematics at Oriel College, Professor at Department of Mathematical Institute, University of Oxford (UK)
- **Dr. Christopher Malone,** Lecturer in International Relations at Queen's College, University of Oxford (UK), DPhil in Philosophy, University of Oxford (UK)
- Dr. Anzhela Yevgenyeva, Research Fellow at SAID Business School, University of Oxford (UK)
- **Dr. Robert Pitkethly**, Official Fellow and Tutor in Management, St. Peter's College, University of Oxford (UK)
- Dr Rudina Jasini, Faculty of Law, University of Oxford (UK)
- **Dr. Nikolaos Theodorakis,** University Lecturer at the Oxford University Foreign Service Programme, Junior Research Fellow at Pembroke College, and Postdoctoral Research Fellow at Kellogg College, University of Oxford (UK)
- Dr Donna Harris, Department Lecturer in Development Economics, University of oxford(UK)
- **Dr. Martin Robinson,** Post Graduate Research Assistant at the Oxford Centre for Collaborative Applied Mathematics, University of Oxford (UK)
- Dr David Michael Fowler, Faculty of Politics, University of Cambridge (UK)





Certificate, Academic Transcript, and Accreditation

Oriel College and CBL International will jointly issue a certificate to delegates on completion of the programme. *Oxford Summer Institute* is a certificate programme that may be accountable for optional credits depending on the requirements of the home institution/school/university.

The Academic Transcript will show the courses chosen and attended by each delegate. It will indicate the workload of each course as well the results of exams and assignments. Each week, one course will be taught. Combining lecture time, preparation, study time, and tests, each week is designed to be equivalent to 2 - 3 ECTS credits or 1 - 1.5 US credits. Each week delegates are invited to participate in one examination. All programmes offered by CBL International Education in the UK are run by CBL International Oxbridge Programmes Ltd. We are proud to announce that CBL International Oxbridge Programmes Ltd is accredited by the British Accreditation Council.

Combination of Oxford Summer Institute and Cambridge Summer Institute

Since 2013, Oxford Summer Institute has a very exclusive sister programme, Cambridge Summer Institute, offered jointly with Magdalene College (University of Cambridge, UK). This academic programme is the only extensive summer programme in Cambridge that focuses on international business management, international relations and politics, history, and business and legal English. It is possible for delegates to combine these two outstanding academic programmes and spend up to 10 weeks in Oxford and 8 weeks in Cambridge. Please contact our academic programme representatives for further information.

Tuition & Accommodation

Tuition Fee (4 weeks):

For USTC

RMB 32,500

RMB 22,800

Tuition fee includes all lectures, course materials, handouts, a corporate day in London, academic evening talks, scheduled cultural activities, and excursions.

Accommodation Fee (4 weeks)

RMB 16,400

Accommodation fee includes a single room with a shared bathroom in a college of the University of Oxford (in total 27 nights), and breakfast served daily in college dining halls.

Extra charge for full board (lunch and dinner served daily)

RMB 6,250

Application and Contact Details





Student groups can apply through a university/school representative. Qualified representatives will be individual professors, programme directors, or head of international offices.

For further information regarding *Oxford Summer Institute* and the application process, please contact:

Valen Li Assistant Programme Director of Cambridge Summer Institute Shanghai Partner Office

Phone: +86 21 6116 1206 Mobile: +86 138 1841 8279 Email: <u>valenl@worldstrides.org</u>