

International Pharmacy Summer School 2019

The University of Manchester

A Welcome Message from the Academic Lead of IPSS 2019

Manchester International Pharmacy Summer School: IPSS

The Faculty of Biology, Medicine and Health at the University of Manchester is delighted to offer a four-week summer school 'IPSS for undergrad students from our partner universities between Sunday 21st July 2019 and Friday 16th August 2019.

The purpose of this summer course is to provide self-motivated international students who are studying pharmacy with first-hand experience of an integrated approach to pharmacy, in a world class learning environment that is enriched with British culture. Ranked 30th in the world, the University of Manchester has a high international standing with 25 Nobel Prize winners.

During the 4-week summer school, students will engage with the practice of contemporary pharmacy in our clinical skills suite with practising pharmacists as well as visit a community pharmacy in the UK, and perform experiments in our state of the art laboratories. Moreover, students will have the opportunity to improve their English writing skills from language experts, and practice their presentation skills in an academic setting to their peers and Manchester academics. In addition to the academic programme, there will also be plenty of opportunities for social activities. These will include a welcome reception and a farewell celebration (involving Manchester academics and students), and trips to local attractions such as the Tatton Park, Chester and Liverpool.

We are confident that the summer school programme will give every participant a fantastic experience that will have lasting impact for the rest of their studies and career.

We look forward to welcoming you to Manchester this July.

Mrs. Harsha Parmar

Senior Lecturer in Pharmacy Practice and Community Pharmacist

Academic Lead of IPSS

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The Academic Programme

Week 1: Monday 22nd July - Friday 26th July

(Morning activities approx: 9.00am to 12pm; afternoon activities approx.1.00pm to 4.00pm)

Monday morning

Registration

Monday afternoon:

Welcome ceremony

Introduction to Pharmacy Practice at Manchester and Structure of UK healthcare (Mrs Harsha Parmar)

Tuesday

Portfolio work: Comparison of healthcare structure of UK and China

Students will create and submit a portfolio of their learning during the summer school – this will be an ongoing activity over the 4-weeks of learning

Interactive lecture: Pharmacy in the UK: Case studies of practitioners from community and general practice

Interactive lecture: Pharmacy in the UK: Case studies of practitioners from hospital and industry

Students will hear from current practitioners in these areas of practice and are encouraged to ask questions about their career pathways, as well as draw comparisons between the role of the pharmacist in the UK and China

Group study: Health promotion

Students will produce a Youtube health promotion video on an allocated health topic which will be published in the public domain– this will be an ongoing activity in the first 2-weeks of learning and will be published to Youtube.

Wednesday

Morning: English Language Writing Workshop 1

This workshop focuses on how to write in a way that will gain a student marks. The workshop includes practical exercises, group activities and focused discussion, the workshop will help students identify common mistakes and enable them to eliminate them from their writing. The objective of the workshop is to help participants avoid common types of grammatical error, read critically and assess objectively, structure correctly and include critical analysis in their work.

Afternoon: Leisure Activity

Thursday

Workshop: Pharmacokinetic modelling and simulation to predict drug-drug interaction risk in drug development

Students will participate in a lecture and simulation workshop where they will learn about the theory and application involved in predicting drug-drug interaction risk in drug development.

Community pharmacy visit

Students will visit a local community pharmacy in small groups to discuss the range of pharmacist led services in the UK and the journey of a prescription in the UK. There will be work-based tasks to complete during the visit for students to engage with.

Friday

Workshop: Cancer medicine

Students will take part in a workshop based on the integrated learning of cancer treatment and consider the various factors involved from taking these treatments from 'bench to bedside'. This will equip students to complete the integrated medicine case presentation they will deliver in the final week of learning.

Week 2: Monday 29th July - Friday 2nd August

Monday

Portfolio work: Cardiovascular risk assessment and comparison between UK and China

Students will complete an e-learning activity on cardiovascular risk assessment in preparation for the workshop where they will apply their learning.

Workshop: Cardiovascular risk assessment

Students will participate in an interactive workshop in cardiovascular risk management, appraising a range of patient cases and formulating individual patient management plans.

Workshop: Consultation skills

Students will participate in an interactive workshop on consultation skills, learning how to develop a patient-centred approach with the use of role plays.

Group study: Health promotion

Tuesday

Portfolio work: Prescription assessment

Students will complete an e-learning activity of the key features of prescription assessment – they will then formulate their own protocol of how to assess a prescription which will be used in the later workshop.

Workshop: Patient counselling and Introduction to prescription assessment

Students will use the own protocol to assess a range of prescriptions for different patient groups; they will make recommendations for the management of the patient using relevant evidence-based resources. Students will also role play the counselling of prescription medicines.

Group study: Health promotion

Wednesday

Morning: English Language Writing Workshop 2

This workshop focuses on editing your own work, enabling a student to view their work with the impartial eye of an editor. The workshop will include practical exercises, group activities and focused discussion in order to help students improve the quality of their writing. The objective of the workshop is to make participants better able to identify what makes writing a pleasure to read, phrase sentences so they are more concise, use punctuation to maximize clarity and present work in an appealing way.

Afternoon: Leisure Activity

Thursday

Portfolio work: Health and Safety in the Lab

Practical: Aspirin synthesis and aspirin assay

Students will participate in a practical session where they will synthesize aspirin and perform an assay of their product. They will write this up as a scientific practical which can be included in their portfolio of learning.

Group study: Health promotion

Friday

Group study on health promotion task

Workshop: Dispensing practical

Students will participate in a dispensing practical where they will dispense a range of medicines as well as accuracy check prescriptions.

Portfolio work and video assignment to be completed and submitted to academic lead

Week 3: Monday 5th August – Friday 9th August

Monday

Portfolio work: Aspirin integration

Students will complete an e-learning activity on aspirin in preparation for the workshop where they will apply their learning.

Practical: Extemporaneous Formulation

Students will participate in a practical where they will formulate a pharmaceutical product.

Workshop: Aspirin TBL

Students will participate in a workshop where they integrate concepts of pharmaceutical science and pharmacy practice related to aspirin.

Group study on integrated medicine task: Initial discussion

Tuesday

Group study on integrated medicine task: BNF and SPC exploration

Lecture and Workshop: Molecular modelling

Students will learn about computer methods in drug discovery. Students will use molecular modeling software to generate 3D structures of small molecules. They will then derive a Quantitative Structure Activity Relationship (QSAR) to predict the in vivo activity of a series of hypnotic compounds.

Group study on integrated medicine task: Mechanism of action of the drug

Wednesday

Morning: Dementia friends and Bowel Cancer Ambassador

Students will participate in two seminars to gain recognition at the end of the workshop as a 'Dementia Friend' and 'Bowel Cancer Ambassador' – these can be included in the portfolio of learning and are key in providing patient-centred consultations.

Afternoon: Leisure activity

Thursday

Practical: Blood pressure and ECG practical

Students will participate in a practical where they measure blood pressure and ECG combining both theory and application.

Friday

Practical: SIM MAN

Students will use an advanced patient simulator to work through a range of clinical cases (e.g. diabetes and pneumonia) in order to make clinical decisions about the care of the patient.

Week 4: Monday 12th August – Friday 16th August

Monday

Group study on integrated medicine task: Formulation of the medicine

Lecture: Pharmaceutical principles of dosage form design

Students will engage with a lecturer on the key components of the pharmaceutical principles of dosage form design.

Interactive lecture: Considerations on Quality Management for the preparation of medicines

Students will engage with a lecturer on the key considerations on quality management for the preparation of medicines.

Group study on integrated medicine task: Cost of treatment of the medicine in the UK and China

Tuesday

Group study on integrated medicine task: Structure of the drug (1)

Practical: Nanoparticles

Students will participate in a practical to focus their understanding on nanoparticles and drug delivery. They will consider the methodology and analytical techniques required to enable them to do so, and participate in a practical that involves the preparation and characterisation of liposomes.

Group study on integrated medicine task: Structure of the drug (2)

Wednesday

Presentations of integrated medicine project

Afternoon: Leisure activity

Thursday

Seminar and Workshop: Adverse effects of patient safety

Students will learn about the theory underpinning patient safety and then apply their learning to perform a root cause analysis of a patient safety incident.

Friday: (9am-1 pm)

Presentations on learning from summer school

Award of completion certificate

Farewell lunch/drinks with IPSS teachers

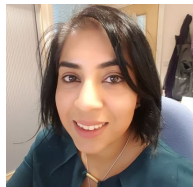
Group Work for Youtube video and integrated medicine project:

- Students will be divided into groups of 5-6.
- Each group is required to nominate a chair, who will be a main point of contact, and will be overall responsible for assembling the group, leading discussion within the group, and ensuring timely completion of the work.
- You have been allocated time within the 4-week summer school to prepare your Youtube video and integrated medicine project presentation
- Further advice on these activities will be given in week 1 by Mrs Harsha Parmar
- The Youtube video must be submitted for moderation by Fri 3rd August (it will be uploaded to Youtube by the academic lead the following week) and the integrated medicine group presentation will be on Wed 15th Aug. All students are expected to participate in the work.
- All work will be judged and scored, with a small number of Youtube videos and presentations chosen for Best Poster Prizes.

IPSS Teaching Staff

Mrs Harsha Parmar: Academic Lead for IPSS 2019 and Senior Lecturer in Pharmacy Practice

Profile: <https://www.research.manchester.ac.uk/portal/harsha.parmar.html>



Mrs Harsha Parmar studied for her Pharmacy degree at the University of Nottingham. She later completed an MPhil degree at The University of Manchester. She is now a Senior Lecturer in Pharmacy Practice and continues to practice as a community pharmacist. Her particular interests focus on pharmacy education; assessment and feedback and preparedness for practice.

Professor Jayne Lawrence : Professor

Profile: <http://www.staffnet.manchester.ac.uk/bmh/about-fbmh/our-structure/schools-and-divisions/shs/pharmacy-optom/>



Professor Jayne Lawrence is the Head of the Division of Pharmacy and Optometry. After qualifying as a pharmacist Jayne undertook a PhD at The University of Manchester. She performs research in nanotechnology. Jayne is particularly interested in understanding how the structure of a molecule influences the molecular architecture of the delivery vehicle it forms and its fate in the target cell. To achieve these aims Jayne uses a range of advanced analytical techniques including light and neutron scattering and reflectivity.

Dr Aleksandra Galetin: Reader in Pharmacokinetics

Profile: <https://www.research.manchester.ac.uk/portal/aleksandra.galetin.html>



Dr Aleksandra Galetin received her PhD at the University of Manchester, UK. She is now Reader in the area of Pharmacokinetics. Her research focuses on translational ADME and physiologically-based pharmacokinetic modelling for the prediction of transporter-mediated pharmacokinetics and drug-drug interactions in different patient populations.

Dr Sally Freeman: Reader in Medicinal Chemistry

Profile: <https://www.research.manchester.ac.uk/portal/sally.freeman.html>



Dr Sally Freeman studied for her PhD degree at the University of Leicester. She is now a Reader in the area of Medicinal Chemistry and the Lead for Social Responsibility for the Division of Pharmacy & Optometry.

Dr Katherine Finnegan: Lecturer in Cancer Biology and Therapy

Profile: <https://www.research.manchester.ac.uk/portal/k.g.finnegan.html>



Dr Katie Finegan studied for her PhD at the University of Manchester. She is now a Lecturer in Cancer Biology and Therapy. Her particular interests focus on the signalling processes

that regulate pro-tumour inflammation and the development of drugs to target these processes.

Mrs Mary Rhodes: Lecturer in Pharmacy Practice

Profile: <http://www.manchester.ac.uk/research/Mary.Rhodes/>



Mrs Mary Rhodes studied for her Master of Pharmacy at The University of Manchester. She is now a lecturer in Pharmacy Practice and continues to practice as a community pharmacist. Her particular interests focus on communication skills.

Dr Manikandan Kadirvel: Lecturer in Medicinal Chemistry

Profile: [https://www.research.manchester.ac.uk/portal/en/researchers/manikandan-kadirvel\(e47166b5-cab1-48a2-a9ce-c95a8e821a6f\).html](https://www.research.manchester.ac.uk/portal/en/researchers/manikandan-kadirvel(e47166b5-cab1-48a2-a9ce-c95a8e821a6f).html)



Dr Manikandan Kadirvel studied for his PhD degree at the University of Manchester. He is now a lecturer in medicinal chemistry. He has previously worked as process development chemist in industry and has been involved in the synthesis of active pharmaceutical ingredients and custom synthesis.

Dr Victoria Silkstone: Reader

Profile: <http://www.manchester.ac.uk/research/victoria.silkstone>



Dr Victoria Silkstone studied for her PhD (drug delivery to the lungs) at the University of Bradford. She is now a Senior Lecturer in Pharmacy in the area of pharmacy practice. Her particular interests focus on pharmacy education and work based learning.

Mrs Victoria Tavares: Lecturer in Pharmacy Practice

Profile: <https://www.research.manchester.ac.uk/portal/victoria.tavares.html>



Mrs Victoria Tavares studied for her Pharmacy degree at the University of Nottingham. She holds a Post Graduate Diploma in community pharmacy from the University of Keele and a Post Graduate Certificate in teaching and learning from the University of Bolton. She is now a teaching focused lecturer in pharmacy practice. Her particular interests focus on differential attainment in undergraduate MPharm students and patient and public involvement in pharmacy teaching and learning.

Miss Sadia Qayyum: Lecturer in Pharmacy Practice

Profile: <http://www.pharmacy.manchester.ac.uk/research/groups/drug-usage-and-pharmacy-practice/staff/>



Miss Sadia Qayyum studied for her Independent Prescribing qualification at the University of Manchester. She is now a lecturer in Pharmacy Practice at the University of Manchester. Her specialities are in asthma as well as pharmaceutical calculations.

Miss Sonia Kauser: Lecturer in Pharmacy Practice

Profile: <http://www.pharmacy.manchester.ac.uk/research/groups/drug-usage-and-pharmacy-practice/staff/>



Miss Sonia Kauser studied for her Independent Prescribing qualification at the University of Bradford. She is now a lecturer in Pharmacy Practice at the University of Manchester. Her particular interests focus on primary care and clinical therapeutics.

Dr Jeffrey Penny: Senior Lecturer

Profile: <http://www.manchester.ac.uk/research/Jeff.Penny>

Dr. Jeffrey Penny studied for his PhD at University College Wales, Aberystwyth. He is now a Senior Lecturer in the area of physiology and pharmacology. His research interests focus on investigating the mechanisms involved in regulating expression and function of blood-brain barrier drug transporters, the effects of diseases (stroke, Alzheimer's disease, cancer) on blood-brain barrier function, and drug delivery to the central nervous system

Dr Richard Prince: Senior Lecturer

Profile: <http://www.manchester.ac.uk/research/richard.prince/>



Dr Prince is a Senior Lecturer at the University. After a first degree in biochemistry, he completed his Ph.D. in pharmacology at the University of London. He followed this with a post-doctoral fellowship in toxicology at Duke University, USA and a Senior Research Fellowship in Physiology and Biophysics at Mayo Clinic, USA. He joined the University of Manchester in 1998 as a lecturer in pharmacology. Dr. Prince is one of the principal teachers of pharmacology theory in the Faculty and is a former Programme Director for the B.Sc. Pharmacology degree. His expertise is in the field of receptor biology and he has a strong interest in ligand-gated ion channel structure and function.

Mr Daniel Greenwood: Pharmacist and PhD student

Profile: <https://www.research.manchester.ac.uk/portal/daniel.greenwood.html>



Mr Daniel Greenwood studied for his MPharm degree at the University of Manchester. He is currently studying for his PhD at the same institution.

Dr Douglas Steinke: Senior Lecturer

Profile: <https://www.research.manchester.ac.uk/portal/douglas.steinke.html>



Dr Douglas Steinke studied for his degree in Pharmacy at the University of Manitoba, Canada and then a PhD at the Dundee University, UK. He is now a Senior Lecturer in the research area of Pharmacoepidemiology. His particular interests focus on chronic disease pharmacoepidemiology and drug utilisation research.

Dr Lynda Harris: Senior Lecturer in Pharmaceutics

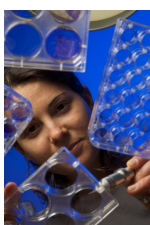
Profile: <https://www.research.manchester.ac.uk/portal/lynda.k.harris.html>



Dr Harris studied for her PhD at The University of Reading. She is now a lecturer in the area of pharmaceutics. Her particular interests focus on drug delivery in pregnancy, placental and vascular biology, and development of nanomedicines to treat pregnancy complications.

Dr Annalisa Tirella: Lecturer

Profile: <https://www.research.manchester.ac.uk/portal/annalisa.tirella.html>



Dr Tirella studied for her PhD at the Univesity of Rome. She is now a lecturer in pharmaceutics. Her particular interests focus on the design and manufacturing of in vitro models for tissue engineering and regenerative medicine.

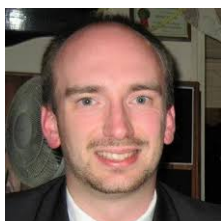
Dr Harmesh Aojula: Senior Lecturer

Profile: <https://www.research.manchester.ac.uk/portal/harmesh.aojula.html>

Dr Harmesh Aojula studied Biological Chemistry obtaining his PhD from the University of Sussex. He is now a Senior Lecturer, in the area of of pharmaceutical analysis and drug delivery. His particular interest focuses on solid phase peptide chemistry and lipid vesicles.

Dr Richard Keers: Clinical Lecturer

Profile: <https://www.research.manchester.ac.uk/portal/richard.keers.html>



Dr Richard Keers studied for his PhD at The University of Manchester. He is now a Clinical Lecturer in Pharmacy in the Division of Pharmacy and Optometry and continues to practise part time as a mental health clinical pharmacist. His particular teaching and research

interests focus on medicines safety, mental health therapeutics, process evaluation of interventions, pharmacy education and clinical pharmacy practice.

Dr Denham Phipps: Lecture in Patient Safety

Profile: <https://www.research.manchester.ac.uk/portal/denham.phipps.html>



Dr Denham Phipps studied for his PhD at The University of Manchester. He is now a lecturer in the area of patient safety. His particular interests focus on human factors and ergonomics in healthcare.

Chris Simms: English Writing Lead for IPSS 2018 and Consultant Fellow for The Royal Literary Fund

Profile: <http://chrissimms.info/>



Chris Simms is a professional author based in Manchester. Chris will be available during the Summer School to provide advice on academic writing, including references, quotations and grammar. Alongside helping students, postgraduates and staff at the University of Manchester with their writing skills, Chris Simms has worked as a freelance copywriter in advertising agencies around Manchester since the early 2000s. He is also the award-winning author of a dozen compelling thrillers.

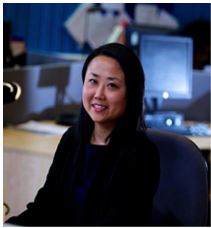
IPSS Support Staff

Ben Goldblum - Faculty Student Recruitment & Marketing Manager



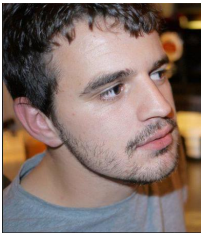
Ben Goldblum is the Lead for Faculty Summer Schools 2018 and is responsible for student recruitment for the Faculty of Biology, Medicine and Health.

Moyin Kwok – Senior International Recruitment and Development Officer



Moyin Kwok is responsible for international recruitment for the Faculty of Biology, Medicine and Health. Moyin is the Faculty's external liaison officer for our university partners.

Edward Pitchford – International Recruitment Coordinator



Ed is responsible for organizing the social activities for IPSS 2018. Ed Pitchford works with Moyin in the Faculty of Biology, Medicine and Health.

Hannah Jordan – International Student Recruitment



Hannah is the administrator. Hannah organises the work between the academic and the administrative teams, co-ordinates the pre arrival information, and arranges the invitation letters for our guests.

Timetable

IPSS 2019, week 1

	Monday 22nd July	Tuesday 23rd July	Wednesday 24th July	Thursday 25th July	Friday 26th July
Time	Location	Location2	Location3	Location4	Location5
9:00-10:00		Portfolio work: Comparison of healthcare structure		Pharmacokinetic modelling and simulation to predict drug-drug interaction risk in drug development - lecture and workshop : AGaletin	Cancer medicine workshop: SFreeman and KFinnegan
10:00-11:00	Registration and Welcome	Pharmacy in the UK: Case studies of Practitioners from community and General Practice: SQuayyum and KKhan	Academic language and writing skills (1): Chris Simms		
11:00-12:00	IT Swipe card			Lunch	
12:00-13:00	Lunch	Lunch	Lunch	Group 1 visit community pharmacy	Lunch
13:00-14:00	Pharmacy in the UK: Intro to Pharmacy Practice at Manchester and Structure of UK healthcare: HParmar and PLewis	Pharmacy in the UK: Case studies of Practitioners from hospital and industry: SKauser and Industrial Tutor	Welcome Social @ Browns (English afternoon tea)	Group 2 visit community pharmacy	Cancer medicine workshop: SFreeman and KFinnegan
14:00-15:00					
15:00-16:00	Introduction to Health Promotion Task: HParmar				
16:00-17:00		Group study on health promotion task			

IPSS 2019, week 2

	Monday 29th July	Tuesday 30th July	Wednesday 31st July	Thursday 1st August	Friday 2nd August
Time	Location	Location2	Location3	Location4	Location5
9:00-10:00	Portfolio work: Cardiovascular risk assessment Comparison of cardiovascular related health	Portfolio work: Prescription assessment	Academic language and writing skills (1): Chris Simms	Preparation: Health and Safety in the lab	Group study on health promotion task
10:00-11:00	Cardiovascular risk assessment workshop: HParmar	Patient counselling and introduction to prescription assessment (1): MRhodes - SQ, SK		Aspirin synthesis practical: MKadirvel	Dispensing practical: VSilkstone
11:00-12:00					
12:00-13:00	Lunch	Lunch	Lunch	Lunch	Lunch
13:00-14:00	Consultation skills workshop: JHughes	Patient counselling and introduction to prescription assessment (2): MRhodes - SQ, SK	Free time: Leisure Activity	Aspirin assay practical: MKadirvel	Portfolio work and video assignment to be completed and submitted
14:00-15:00					
15:00-16:00	Group study on health promotion task	Group study on health promotion task		Group study on health promotion task	
16:00-17:00					

IPSS 2019, week 3

	Monday 5th August	Tuesday 6th August	Wednesday 7th August	Thursday 8th August	Friday 9th August
Time	Location	Location2	Location3	Location4	Location5
9:00-10:00	Portfolio work: Aspirin integration	Group study on integrated medicine task	Health promotion champions workshop (Dementia friends and Bowel Cancer Ambassador): VTavares	Blood pressure and ECG practical: JPenny	
10:00-11:00	Extemporaneous formulation: RCampbell	Molecular modelling workshop: RPrince			Group 1 v SIM MAN workshop: DSteinke
11:00-12:00					
12:00-13:00	Lunch	Lunch	Lunch	Lunch	
13:00-14:00	Aspirin team-based learning workshop: Ruth/Richard/Gavin/Katie/Alain	Molecular modelling workshop: RPrince	Free time: Leisure Activity	Practical analysis and write-up: JPenny	Lunch
14:00-15:00					Group 2 SIM MAN workshop: DSteinke
15:00-16:00	Group study on integrated medicine task	Group study on integrated medicine task			
16:00-17:00					

IPSS 2019, week 4

	Monday 12th August	Tuesday 13th August	Wednesday 14th August	Thursday 15th August	Friday 16th August
Time	Location	Location2	Location3	Location4	Location5
9:00-10:00	Group study on integrated medicine task	Group study on integrated medicine task	Student presentation of integrated medicine project: VTavares and DSteinke/anyone else?	Adverse effects of patient safety (1): RKeers and DPhipps	Student presentations of learning from summer school Certificates/Awards Lunch/Farewell
10:00-11:00	Pharmaceutical principles of dosage form design: LHarris	Nanoparticles - Drug encapsulation practical: HAOjula			
11:00-12:00					
12:00-13:00	Lunch	Lunch	Lunch	Lunch	
13:00-14:00	Consideration on quality management for the preparation of medicines: ATirella	Nanoparticles - Drug encapsulation practical: HAOjula	Free time: Leisure Activity	Adverse effects of patient safety (2): RKeers and DPhipps	
14:00-15:00					
15:00-16:00	Group study on integrated medicine task	Group study on integrated medicine task			
16:00-17:00					

Further Information

Fees for four weeks

£3,000 for each participating student, which includes:

- Programme fee for academic and laboratory activities, course materials;
- 4 week, on-campus accommodation:
 - Approx. 29 nights, date to be confirmed by University of Manchester
 - Single room, shared kitchen, self catered, linen and WiFi included
 - Accommodation location and facilities to be confirmed by The University of Manchester
- Group airport transfers from Manchester International Airport (two trips, arrival, and departure);
- Orientation and farewell events & selected social activities
- Any fees/ expenses outside the abovementioned items are not included in the fee of £3,000 per student. For example meals, pocket expenses and weekend optional sightseeing activities

Eligibility

To apply to the Manchester Summer School, we expect the following:

- You will be 18 or over on the first day of the course;
- You will be a registered undergraduate student at a tertiary institution such as a university or college;
- You will have achieved good academic grades equivalent to GPA 3.0/4.0 (An average score of 75, or above, out of 100). Please contact us if you are not sure what the equivalent grade would be for your home institution.

English Language

If English is your second language, you should fulfil one of the following English language requirements:

- IELTS overall 6.0 with each component not less than 5.5, or its equivalent in TOEFL;
- CET-4 (minimum score of 493);
- CET-6 (minimum score of 400).