HIC academic Summer School

25 July-6 August

HIC is the UK's longest established on-campus pathway college. We are an Associate College of the University of Hertfordshire and provide an excellent opportunity to enter UK higher education. We offer undergraduate and postgraduate pathways that result in the award of a University of Hertfordshire degree.

The University of Hertfordshire is one of the most improved universities in the UK, climbing 16 places in the latest rankings (Guardian University Guide, 2015). HIC is located at the heart of the University campus in the historic town of Hatfield, which is just a 25 minute train journey from central London. The University of Hertfordshire offers some of the best UK university sports facilities and a world-class 1,500 capacity entertainment venue.

HIC students receive unparalleled academic support, with small class sizes and additional tutorials.

The summer school programme

Over two weeks of intensive teaching you will learn the foundations of either Aerospace Engineering or Life and Medical Science. This academic focus will be combined with English Language tuition tailored towards their chosen major, hands-on tutorials in University of Hertfordshire laboratories, use of aircraft simulators on campus and an enriching extra-curricular programme including visits to local places of interest.

The course will be led by academic members of staff from both HIC and the University of Hertfordshire. All of our members of staff have significant experience of teaching international students at various levels.

Itinerary

Day 1

Arrival at London Heathrow, collection from airport and transfer to University of Hertfordshire. Evening dinner provided depending on time of arrival.

Day 2	Aerospace Engineering	Life and Medical Science
8.30am–9.30am	Breakfast	
9.30am–10.00am	Official welcome from Dr. Sarah Liu	
10.00am–12.15pm	Campus tour, orientation, briefing on programme	
12.30pm–1.30pm	Lunch	
1.30pm–3.30pm	English Language 1	English Language 1
4.00pm–6.30pm	Sport (football or basketball)	
6.30pm–8.30pm	Dinner	

Day 3	Aerospace Engineering	Life and Medical Science
8.30am–9.30am	Breakfast	
9.30am–11.00am	English Language 2	English Language 2
11.00am–12.30pm	Conservation of energy, units, dimensional analysis, mechanics of motion, kinematics laws.	The purpose of the study of Biology and its wider application – social, economic and environmental
12.30pm–1.30pm	Lunch	
1.30pm–3.30pm	English Language 3	English Language 3
4.00pm–6.30pm	Sport (football or basketball)	
6.30pm–8.30pm	Dinner	

Day 4	Aerospace Engineering	Life and Medical Science
8.30am–9.30am	Breakfast	
9.30am–11.00am	English Language 3	English Language 3
11.00am–12.30pm	**Aerospace Engineering** Motion in two dimensions, projectile motion, forces acting. HDT. Properties of projectile motion, energy status, horizontal velocity criteria.	**Life Science** Safe working practices in the laboratory (includes Health and Safety quiz) Maintaining a laboratory logbook
12.30pm–1.30pm	Lunch	
1.30pm–3.30pm	English Language 4	English Language 4
4.00pm–6.30pm	Enrichment – sport (football or basketball)	
6.30pm–8.30pm	Dinner	

Day 5	Aerospace Engineering	Life and Medical Science
8.30am–9.30am	Breakfast	
9.30am–11.00am	English Language 5	English Language 5
11.00am–12.30pm	**Simulation 1** use of aircraft simulators in the School of Engineering	**Lab Enhancement 1** practical use of the laboratories and pharmacy dispensing techniques
12.30pm–1.30pm	Lunch	
1.30pm–3.30pm	English Language 6	English Language 6
4.00pm–6.30pm	Enrichment – sport (football or basketball)	
6.30pm–8.30pm	Dinner	

Day 6

8.30am–9.30am	Breakfast
All day	Day trip to London: London Eye, British Museum, Buckingham Palace
6.30pm–8.30pm	Dinner

Day 7

8.30am–9.30am	Breakfast
All day	Day trip to Cambridge: University of Cambridge, Kings' College Chapel, the River Cam
6.30pm–8.30pm	Dinner

Day 8	Aerospace Engineering	Life and Medical Science
8.30am–9.30am	Breakfast	
9.30am–11.00am	English Language 7	English Language 7
11.00am–12.30pm	**Aerospace Engineering** Collision theory, types of collisions, properties of elastic and inelastic collisions. Laws of Conservation of Momentum. The Ballistic pendulum problem/solution	**Medical Science** Respiration: aerobic and anaerobic processes – glucose utilisation Overall reaction of respiration Outline of glycolysis: Citric acid cycle; electron transport chain Fermentation: lactic acid/ethanol production
12.30pm–1.30pm	Lunch	
1.30pm–3.30pm	English Language 8	English Language 8
4.00pm–6.30pm	Enrichment – sport (football or basketball)	
6.30pm–8.30pm	Dinner	

Day 9	Aerospace Engineering	Life and Medical Science
8.30am–9.30am	Breakfast	
9.30am–11.00am	English Language 9	English Language 9
11.00am–12.30pm	**Aerospace Engineering** Properties of fluids, calculation of pressure within a liquid, Pascal's Principle. Derivation of the buoyancy force.	**Medical Science** Photosynthesis Overall reaction of photosynthesis Outline of requirements for photosynthesis; light, temperature, carbon dioxide concentration, water, chlorophyll Outline of dark and light reactions of photosynthesis
12.30pm–1.30pm	Lunch	
1.30pm–3.30pm	English Language 10	English Language 10
4.00pm–6.30pm	Enrichment – sport (football or basketball)	
6.30pm–8.30pm	Dinner	

Day 9	Aerospace Engineering	Life and Medical Science
8.30am–9.30am	Breakfast	
9.30am–11.00am	English Language 9	English Language 9
11.00am–12.30pm	**Aerospace Engineering** Properties of fluids, calculation of pressure within a liquid, Pascal's Principle. Derivation of the buoyancy force.	**Medical science** Photosynthesis Overall reaction of photosynthesis Outline of requirements for photosynthesis; light, temperature, carbon dioxide concentration, water, chlorophyll Outline of dark and light reactions of photosynthesis
12.30pm–1.30pm	Lunch	
1.30pm–3.30pm	English Language 10	English Language 10
4.00pm–6.30pm	Enrichment – sport (football or basketball)	
6.30pm–8.30pm	Dinner	

Day 10	Aerospace Engineering	Life and Medical Science
8.30am–9.30am	Breakfast	
9.30am–11.00am	English Language 10	English Language 10
11.00am–12.30pm	**Simulation 2** use of aircraft simulators in the School of Engineering	**Lab Enhancement 2** practical use of the laboratories and pharmacy dispensing techniques
12.30pm–1.30pm	Lunch	
1.30pm–3.30pm	English Language 11	English Language 11
4.00pm–6.30pm	Enrichment – sport (football or basketball)	
6.30pm–8.30pm	Dinner	

Day 11	Aerospace Engineering	Life and Medical Science
8.30am–9.30am	Breakfast	
9.30am–11.00am	English Language 12	English Language 12
11.00am–12.30pm	**Aerospace Engineering** Kinetic theory of gasses. Derivation of the relationship between temperature and kinetic energy of molecules. Internal energy of a body.	**Life Science** The purpose of the study of chemistry, the use of analytical techniques, the structure of matter and laws of physics. The application of these to the Life Sciences.
12.30pm–1.30pm	Lunch	
1.30pm–3.30pm	English Language 13	English Language 13
4.00pm–6.30pm	Enrichment – sport (football or basketball)	
6.30pm–8.30pm	Dinner	

Day 12	Aerospace Engineering	Life and Medical Science
8.30am–9.30am	Breakfast	
9.30am–11.00am	English Language 14	English Language 14
11.00am–12.30pm	**Aerospace Engineering** Laws of reflection and refraction determined by wave fronts. Derivation of Snell's law, and total internal reflection, Young's double slit experiment, theory of diffraction gratings.	**Life Science** The structure of the atom. Electrons, protons and neutrons Mass number and atomic number Isotopes Relative atomic mass
12.30pm–1.30pm	Lunch	
1.30pm–3.30pm	English Language 15	English Language 15
4.00pm–6.30pm	Enrichment – sport (football or basketball)	
6.30pm–8.30pm	Dinner	

Day 13

8.30am–9.30am	Breakfast
All day	Day trip to London; Tower of London, Oxford Street
6.30pm–8.30pm	Dinner, farewell and certificate presentation

Day 14

Departures

Included in the programme

- Accommodation on the University campus in a single, en-suite room
- Three meals per day (all catering is halal)
- Airport pick–up
- Welcome dinner
- Certificate of participation at the end of the programme
- Internet access
- Social activity plan
- Tuition
- Five per cent discount on HIC fees should the student subsequently enrol on a full HIC pathway programme

Cost

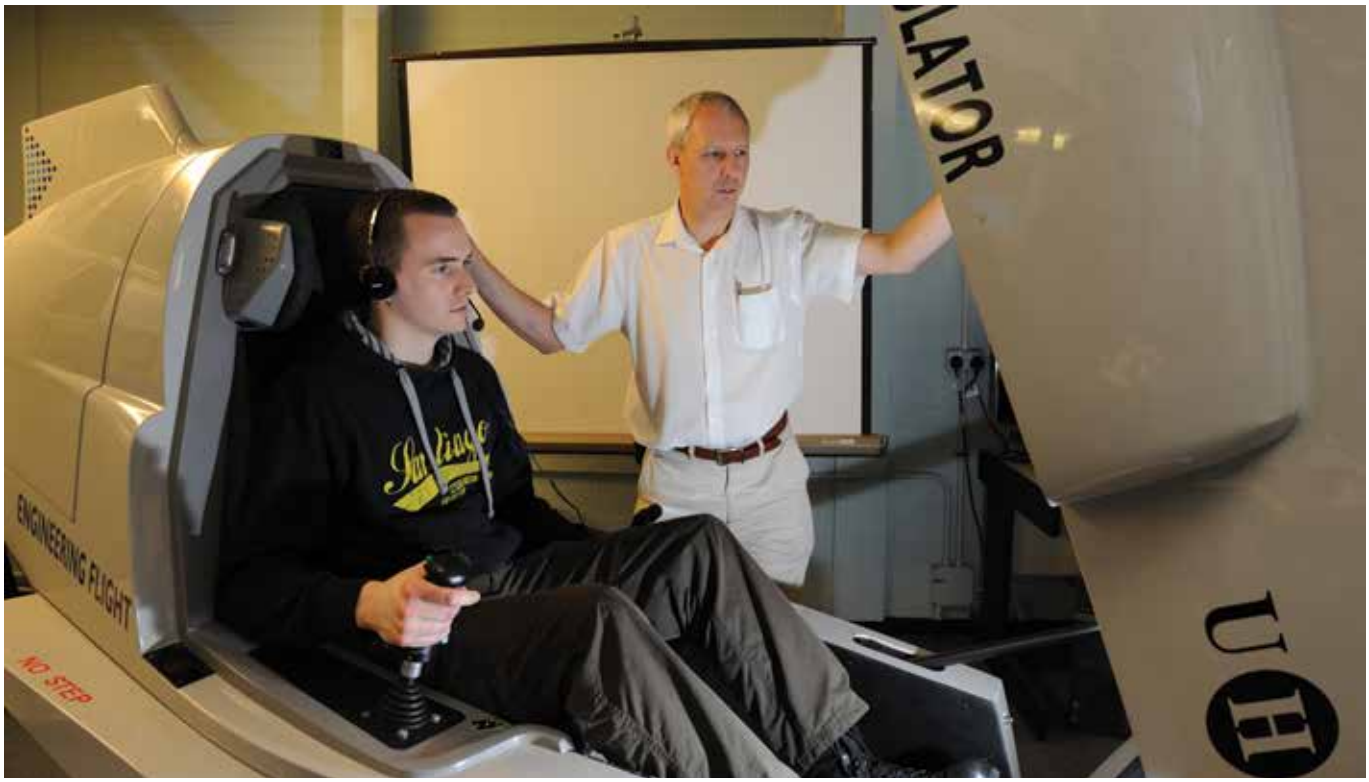
HIC will charge £2,000 per participant for the programme. Changes or additions to the programme can be accommodated, subject to extra costs.

Further information

For further information please speak to your agent and they will get in touch with HIC.

If you would like join us please let your agent know as soon as possible so that we can start making the arrangements for you to join us.

We look forward welcoming you to our summer programme in July!



For further information speak to your agent.

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