



Peter Fidczuk
IB Global Centre, Cardiff
Peterson House, Malthouse Avenue
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Cardiff, Wales
CF23 8GL

Friday, 28 July 2023

Dear Peter

Recognition

I am writing to confirm the University of Leeds would accept the International Baccalaureate HL Certificate in Physics (AAQ) for entry onto the related programmes below, alongside two appropriate A Levels including any other subject specific requirements. This is subject to our annual review of qualifications suitable for entry to our courses. Please check [Course Search](#) for our most up to date entry requirements.

- Physics BSc/MPhys
- Physics with Astrophysics BSc/MPhys
- Theoretical Physics BSc/MPhys
- Chemical Engineering BEng/MEng
- Materials Science and Engineering BEng/MEng
- Aeronautical and Aerospace Engineering BEng/MEng
- Automotive Engineering BEng/MEng
- Mechanical Engineering Engineering BEng/MEng
- Medical Engineering BEng/MEng
- Environmental Science BSc
- Geology BSc
- Geophysics BSc
- Sustainability and Environmental Management BSc
- Food Science BSc/MSci
- Food Science and Nutrition BSc/MSci
- Nutrition BSc/MSci
- Natural Sciences BSc/MNatSci

The qualifications listed above reflect those that can accept this qualification as meeting subject-specific requirements. Where any such requirements are met through A Levels, the AAQ can be considered as a third subject.

How the content aids progression to HE programmes in related subjects

We encourage applications from students undertaking Higher Level (HL) IB courses. We will consider applicants who present three HL courses, or a combination of HLs with A-Levels, in which case three unique subjects must be undertaken. Please note that subject-specific requirements may apply to some courses.

The IBO Level 3 certificate in HL Physics (AAQ) provides a firm foundation in the principles of physics allowing candidates to progress successfully to undergraduate courses where a deep knowledge of physics is a pre-requisite. The qualification content covers the fundamental principles of physics which includes:



Space, time and motion

- Kinematics
- Forces and momentum
- Work, energy and power
- Rigid body mechanics
- Galilean and special relativity

The particulate nature of matter

- Thermal energy transfers
- Greenhouse effect
- Gas laws
- Thermodynamics
- Current and circuits

Wave behaviour

- Simple harmonic motion
- Wave model
- Wave phenomena
- Standing waves and resonance
- Doppler effect

Fields

- Gravitational fields
- Electric and magnetic fields
- Motion in electromagnetic fields
- Induction

Nuclear and quantum physics

- Structure of the atom
- Quantum physics
- Radioactive decay
- Fission
- Fusion and stars

Additionally, the qualification develops the key skills necessary for students to access undergraduate physics and other undergraduate science courses:

- Experimental techniques
- The use of appropriate technology to collect, analyse and model data
- The use of mathematics

In our undergraduate courses we expect our students to take an inquiring approach to their studies. The IBO Level 3 Certificate in HL Physics (AAQ) qualification supports this aspect through its inquiry process through which candidates demonstrate independent thinking, initiative, and insight through the following:

- Exploring and designing
- Collecting and processing data
- Concluding and evaluating

Current recognition of similar qualifications

We currently accept the International Baccalaureate Diploma. We also accept Diploma Courses in lieu of A Levels, provided any specific level 2, English or subject specific requirements have been met from other recognised qualifications.

The University uses the following equivalence scale to compare the IBO Level 3 Certificate in HL Physics to A level Physics:



UNIVERSITY OF LEEDS

IBO Level 3 Certificate in HL Physics (AAQ) grade	A Level Physics grade
7	A*
6	A
5	B
4	C

The University of Leeds is registered with the Office for Students.

We understand that this letter of support will be publicly available via IBO's MyIB Portal for as long as we recognise the qualification. We are happy for a copy to be shared with the DfE.

I have consulted with the relevant faculties, and we have agreed this at our Admissions Group meeting and have the authority to sign on behalf of our institution.

Yours sincerely,

A handwritten signature in blue ink, appearing to read 'Jeff Grabill'.

Professor Jeff Grabill

Deputy Vice-Chancellor: Student Education