Edinburgh Napier University

Energy and Environmental Engineering

Study details

Course type: Bachelor's degree
Degree: BEng (Hons) Energy and Environmental Engineering
Study mode: Full time
Duration: 36 Month

Cost of study

Cost : 19 340 GBP
Reg. fee : 210 GBP
Scolarship :
Insurance : N/A GBP

Intake/s

Apr/Jan/Sep

Requirements

English language requirements

IELTS Academic

- Overall 6.0
- Writing 6.0
- Listening 5.5
- Reading 5.5
- Speaking 5.5

We also accept other English language qualifications. (TOEFEL iBT, Trinity ISE, LANGUAGECERT Academic..)

Don’t meet the English language requirements?

Pre-sessional English for international students. If you hold a conditional offer and have not yet met the English entry requirements for a degree course at the University, we can help you with our pre-sessional English courses.

Study for 4 years (start at Level 1)

The essential subjects are Mathematics + another science (Information Technology, Chemistry, Biology, Human Biology, Physics, or Computing Science) - A-level, GCE CCC

Study for 3 years (start at Level 2)

The essential subjects are Mathematics + another Science (Information Technology, Chemistry, Biology, Human Biology, Physics, Psychology or Computing Science) - A-level, GCE ABB

IB (International Baccalaureate) diploma

Study for 4 years (start at Level 1) - 28 points, including 5, 5, 4 at higher level

Essential subject: Mathematics at Higher Level

Study for 3 years (start at Level 2) - 32 points, including 6, 5, 5 at higher level

Essential subject: Mathematics at Higher Level

Accommodation

Key Features & Amenities

- Fully-furnished bedrooms
- Laundry facility with washers and dryers available
- Super-fast internet and wifi throughout
- Large social space, games area and study spaces
- Communal kitchen space for students
- 24/7 security

Two main accommodation locations for International Students:

Gorgie: 543 Gorgie Road Edinburgh EH11 3AR

Westfield: 24 Westfield Road Edinburgh EH11 2QB

Speciality

Pathways Available: International Stage One

Additional information

Degree Overview

As an energy engineer, you'll be exploring cleaner, more efficient ways of using fossil fuels, while investigating and specifying the design of renewable energy developing systems using renewable and sustainable resources, such as solar and wind energy. You will also look at how local climate

impacts on the design and selection of these systems, and consider their life cycle and carbon footprint.

The course focuses on learning engineering principles and practices, as well as computing skills and principles of design, relating to a wide range of energy systems. You'll also learn methods of applying energy-efficiency in design, engineering practices and create more environmentally-friendly forms of industrial design and manufacture.

In year 1 you will learn fundamental principles underpinning both mechanical and electrical engineering sciences, and hands on practical skills. You will then progress on to year 2, further developing these fundamental skills while beginning to specialise in thermodynamics and mechanical engineering, while considering control and automation systems, key elements of design and engineering management skills. In year 3, you continue to specialise in your chosen field, gaining insight in to the design and application of renewable energy systems, detailed design and innovation practices and engineering applications. In your final year you will work on your honours project as well as gaining enhanced skills in analysis of energy efficient design in relation to building energy systems design, and power systems analysis.