

# Naval Architecture with High Performance Marine Vehicles

University of Strathclyde

## Content

### Years 1 & 2

Our courses have a common core on which you'll build more specialist knowledge. In Years 1 and 2, you'll follow this core so it's possible to change course. You'll study engineering science and the fundamentals of naval architecture including: buoyancy and floatation; stability; ship types; terminology.

As you progress, you'll study more specific naval architecture subjects such as: resistance and propulsion; ship structural analysis; ship design; marine engineering systems; business and management subjects.

### Years 3 & 4

You'll study more advanced subjects related to the design of conventional ships, sailing yachts, high-speed ships and other high-performance marine vehicles.

You'll study state-of-the-art tools for analysing the water flow around ship hulls, predicting the stresses and strains in the hull structure, and the behaviour of ships in waves.

You'll study the design of yachts and powercraft, how to predict the behaviour of high-performance sailing yachts and high-speed ships.

There's also a specialised individual project on a subject which you will choose. This can involve any combination of calculations, design, computer studies or tank-testing using any of the department's facilities.

### Year 5

You'll study further specialist subjects covering topical areas such as dynamics of high-performance ships, energy management and environment protection, regulation and maintenance of marine systems, and marine renewable energy. You'll take part in a substantial group project to design an innovative vessel or structure.

## Start Date

October

## Qualification

Degree

## Study Method

Full time

## Award Title

MEng

## UCAS Code

H521

## Course Length

5 years

## Faculty

Faculty of Engineering

## Department

Naval Architecture, Ocean and Marine Engineering

## Entry Requirements

2022 entry requirements

Standard entry

4 or 5 Highers at AAAA or AAABB including Maths at A and Engineering Science or Physics plus English at National 5. Advanced Higher Maths and Physics preferred. Higher English preferred.

Widening Access entry:

4 Highers at AAAB including Maths and Engineering Science or Physics plus English at National 5. Advanced Higher Maths and Physics preferred. Higher English preferred.

## SCQF Level

11

## Progression Routes

«ProgressionRoutes»

## Combination Courses

«htmlCombinationCourse»

«htmlCombinationUCASCode»

## Address

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## Website

[www.strath.ac.uk](http://www.strath.ac.uk)