BSC (HONS) DEGREE
MARITIME OPERATIONS MANAGEMENT

B&FC BLACKPOOL AND THE FYLDE COLLEGE

FLEETWOOD NAUTICAL CAMPUS

Degrees awarded by Lancaster University

This combined programme allows you to commence your studies at Advanced Certificate level (Advanced Diploma for Electro-Technical), then via a bridging module, progress to the BSc (Hons) in Maritime Operations Management, validated by Lancaster University. The programme builds your technical skills, knowledge and management capability as you progress.

Lancaster University won two major awards from The Times and the Sunday Times Good University Guide and was named the International University of the Year in the 2020 guide.

PATHWAYS

There are three pathways available:

+ Nautical Science

You will complete the Advanced Certificate and Advanced Diploma in Nautical Science in Year 1 and 2 then progress onto the BSc programme

+ Marine Engineering

You will complete the Advanced Certificate and Advanced Diploma in Marine Engineering in Year 1 and 2, then progress onto the BSc programme

+ Electro Technology

You will complete the Advanced Diploma in Electro Technology in Year 1 and 2, then progress onto the BSc programme.

ABOUT THIS PROGRAMME

Duration: The duration of the entire programme will be approximately 2 years 3 months

Cost of the programme: The total tuition fees for the entire programme is approximately £22,250

Entry criteria: A level or equivalent

Career opportunities: On completion of the programme, you will be dually qualified, with a core technical qualification and a management qualification, allowing you to work in shore based roles. You will be eligible to apply for a graduate visa to work in the UK for two years.

More information can be found at:
www.gov.uk/graduate-visa

Placements: During your programme, we may be able to arrange work placements and other industry experience, subject to availability.

Intakes: There are three intakes a year, in January, May and September

MODULES

Your programme will comprise the following modules, which are common across all three programme pathway options:

Digital Ship Management (DSM, Mandatory)

This module will introduce you to the rapidly developing field of data science and machine learning and their applications in the field of Maritime Operations Management and builds on previous subjects utilising IT for technical vessel operations and management. The practical elements of the module will include both on-site and cloud-based activities, supporting the developing of your knowledge and understanding, which will align to industrial applications when managing the digital aspects of ship management. This will introduce you to concepts of Data Science and Artificial Intelligence and how such information can be used to manage ships.

Management of Maritime Projects (MMP, Mandatory)

This module allows you to critically appraise the application of maritime based projects, recognising the importance of the adoption of formal project management procedures in order to bring about successfully implemented changes within the sector. The module aims to provide you with insight into the interdependent processes and systems used to enable a successful project environment, whilst recognising both internal and external factors which will influence successful outcomes. During the module you will have the opportunity to investigate contemporary project case studies surrounding green and sustainable initiatives within the sector, discussing the success factors which allow for the forward movement of these projects and initiatives.

Green Ship Management (GSM, Mandatory)

This module helps you develop knowledge on topics ranging from legal frameworks to corporate social responsibility. This is critical for developing an effective approach to managing maritime operations in a sustainable manner. Furthermore, you will build on your existing technical knowledge and experience within the industry to inquire into utilisation of specific technical solutions, such as decarbonisation, greenhouse gas (GHG) emission reduction, ballast water management and voyage optimisation. You will analyse these technical aspects of vessel operations with an aim to manage maritime operations in a sustainable manner and to reduce the environmental impact of shipping.

Future Shipping Technologies (FST, Elective)

This module allows you to critically reflect on how technology will progressively transform the maritime industry. This module builds on previous learning related to marine navigation systems, bridge and shipboard management. You will consider a range of technologies that are already transforming the industry and some that are still being pioneered and are not yet widely adopted. The scope of this module includes the three key areas of concern for deck officers and masters – safety and efficiency of navigation, cargo and port operations and maritime business, from the perspective of maritime operations management. This module will look at technologies such as Augmented Reality/Mixed Reality, Blockchain, Digital Aids to Navigation, Maritime Autonomous Surface Ships, SMART Ports and Cybersecurity.

Future Electro Technical Systems (FET, Elective)

In this module you will critique the management, design, sustainability, manufacturing, installation, commissioning, operation, monitoring, maintenance and decommissioning of electrical and electronic engineering systems. You will also consider the strategies applied to each of these areas and their through-life sustainability, and the overall effectiveness of these strategies. You will go further, critiquing the potential challenges of applying electro-technical systems in relation to vessel automation. Research will focus on the exploration of emerging and the future management of technology implementation in a maritime environment, utilising a range of different media including web-based, electronic, digital and hard copy media, such as the Institute of Marine Engineering, Science and Technology journals, research papers and articles.

Future Engineering Technologies FEngT, Elective)

In this module you will assess the design, manufacturing, installation, commissioning, operation, monitoring, maintenance and decommissioning of engineering systems. Throughout this module you will consider the strategies applied to each of these areas, their through-life sustainability and the overall effectiveness of these strategies. The module will give you the opportunity to critique the potential challenges of applying engineering technologies in relation to vessel autonomy. You will do so by interrogating the future requirements and development of autonomous vessels and the subsequent implementation of engineering systems. Your research will focus on the exploration of emerging and future technology implementation in a maritime environment, utilising a range of sources such as the Institute of Marine Engineering, Science and Technology journals.

Dissertation (DST, Mandatory)

This module provides you with an opportunity to engage in research and communicate its outcomes through a written dissertation and presentation. It builds on previous academic study modules, and subjects covering shipboard operations and management. This module will enable you to apply core and specialist maritime knowledge, skills and behaviours developed on the programme to a specific area of interest.

The project will be negotiated, planned and completed in conjunction with a designated subject specific supervisor and also the module leader. The dissertation will enable you to evidence critical thinking, problem identification and solving skills, business and commercial understanding along with the competencies, behaviours and aptitudes of a maritime professional. The research project will culminate in a written dissertation and presentation of the outcomes to a panel of tutors, supervisors and (where applicable) external guests.

MORE INFORMATION

Please email one of our academic team on E BSc.Fleetwood@blackpool.ac.uk

Or, you can take a look at our website fleetwoodnautical.blackpool.ac.uk/courses/merchant-navy-deck