

PROGRAMME SPECIFICATION

Foundation Degree Science in Marine Operations

Awarding institution	Liverpool John Moores University
Teaching institution	LJMU
UCAS Code	J615
JACS Code	J600
Programme Duration	Full-Time: 2 Years
Language of Programme	All LJMU programmes are delivered and assessed in English
Subject benchmark statement	MNTB Foundation Degree Framework
Programme accredited by	Merchant Navy Training Board, Maritime & Coastguard Agency http://www.mntb.org.uk/ https://www.gov.uk/government/organisations/maritime-and-coastguard-agency
Description of accreditation	Meets Deck Officer underpinning knowledge
Validated target and alternative exit awards	Foundation Degree Science in Marine Operations Certificate of Higher Education in Marine Operations
Programme Leader	Barbara Kelly

Educational aims of the programme

The general aim of the Marine Operations programme is to develop students as independent learners and for a career as a Merchant Navy Deck Officer or in the Shipping Industry ashore. The students develop the knowledge, skills and attitudes which such an undertaking demands. A curriculum of studies is offered that collectively represents the demands of the industry from a professional qualification and on a curriculum content basis. Students who achieve the FDSc will also be in a position to progress to complete BSc(Hons) level study with direct entry to level six of the Nautical Science degree programme.

Alternative Exit/ Interim Award Learning Outcomes - Certificate of Higher Education

A student who is eligible for this award will be able to:

Level 4 aims to provide students with the fundamental knowledge and key skills required to allow further study at level 5 and 6. Students will achieve an understanding of basic Navigation, Shipboard Operations, Study Skills, and Shipboard Management and solve problems from an operational perspective. Students will also develop practice skills through Work Based Learning placements.

Target award Learning Outcomes - Foundation Degree Science

A student successfully completing the programme of study will have acquired subject knowledge and understanding as well as skills and other attributes.

Knowledge and understanding

A student who is eligible for this award will be able to:

- A1. Demonstrate practical knowledge of the operational requirements on board ships.
- A2. Examine issues related to the wider shipping industry, management and business & law related to shipping.
- A3. Discuss the theory applied to Shipboard Operations such as Navigation, Stability and Cargo Operations.

Teaching, learning and assessment methods used to enable outcomes to be achieved and demonstrated

Acquisition of knowledge is achieved mainly through lectures and supported tutorial work. Students will develop additional knowledge through directed student-centered learning activities within the workplace.

Assessment

Testing of the knowledge base is through a combination of unseen written examinations, coursework in the form of case-study reports and coursework assignment submissions.

Skills and other attributes

Intellectual Skills

A student who is eligible for this award will be able to:

- B1. Develop the ability to apply theoretical knowledge in a variety of marine related situations.
- B2. Gather information from a variety of sources.
- B3. Analyse situations and draw appropriate conclusions and recommendations.
- B4. Demonstrate cognitive skills necessary to plan and conduct a report of original research.
- B5. Recognise the implications of professional and ethical responsibilities of the maritime industry

Teaching, learning and assessment methods used to enable outcomes to be achieved and demonstrated

Intellectual Skills are developed mainly through case studies, coursework assignments and supported tutorial work. Intellectual skills will also be developed through directed student-centered learning activities within the workplace.

Assessment

Testing of the intellectual skills is through a combination of unseen written examinations, coursework in the form of case-study reports and coursework assignment submissions.

Professional practical skills

A student who is eligible for this award will be able to:

- C1. Draw together and integrate disparate data from a variety of sources, analyse the information and apply to practical marine operations
- C2. Demonstrate competence in operational procedures of vessels including coastal and open sea navigational problems and cargo operations
- C3. Demonstrate professionally recognised navigation and ship operations skills

Teaching, learning and assessment methods used to enable outcomes to be achieved and demonstrated

Professional practical skills are developed in the completion of tutorial and assessed work throughout the programme and through directed student-centered learning activities within the workplace.

Assessment

Testing of professional practical skills is through a combination of unseen written examinations, coursework in the form of case-study reports and coursework assignment submissions.

Transferable / key skills

A student who is eligible for this award will be able to:

- D1. Communicate effectively in written, verbal and visual forms to a variety of audiences and circumstances.
- D2. Manage time and work to deadlines.
- D3. Work as a member of a team to formulate solutions to complex problems.
- D4. Effectively use Information Technology (IT) for a variety of maritime and business tasks.
- D5. Utilise problem solving skills in a variety of theoretical and practical situations.
- D6. Improve learning skills developed through Personal Development Planning.

Teaching, learning and assessment methods used to enable outcomes to be achieved and demonstrated

Transferable/key skills are developed in the completion of tutorial and assessed work throughout the programme.

Assessment

Testing of transferable/key skills is through a combination of unseen written examinations, coursework in the form of case-study reports and coursework assignment submissions.

Programme structure - programme rules and modules

Programme rules

The programme is designed to meet the requirements for an STCW Deck Officer OOW certificate in addition to obtaining a foundation degree. It is offered in full time mode (1 year per level of 120 credits), with each starting in September. The credits include Work-Based Learning modules which are provided at Level 4 (20 credits) & Level 5 (20 credits). The level 4 Work-Based Learning module is taken by all students and may be in any maritime area. Students completing the shore based pathway will complete WBL at level four but this is optional at level 5. Those

students following the sea going route and professional qualification to OOW will take a year out during level 5 to complete industrial training, short courses and OOW certificate. It should be noted that students

need to obtain an employer or sponsor for the OOW programme who will provide the position on board ship to allow for the completion of the industrial training. Sea going students will also be required to select specified options at level five (5102NAU, 5103NAU and 5105NAU) that will ensure completion of all STCW content in preparation for professional certification.

Level 5	Potential Awards on completion	Foundation Degree Science
Core	Option	Award Requirements
5100NAU MARITIME LAW (20 credits) 5101NAU NAVIGATION (20 credits) 5103MAR Research Planning (10 credits) 5104NAU SHIPBOARD OPERATIONS (20 credits)	5101MAR Shipbroking and Chartering (20 credits) 5102NAU PROFESSIONAL PRACTICE (20 credits) 5103NAU SHIP TECHNOLOGY (10 credits) 5104MAR Quantitative Methods (10 credits) 5105NAU SHIPPING PRACTICE (20 credits) 5106MAR Business Organisation Awareness (20 credits) 5108MAR Logistics and Materials (20 credits)	70 core credits at level 5 50 option credits at level 5

Level 4	Potential Awards on completion	
Core	Option	Award Requirements
4100NAU BRIDGE OPERATIONS (20 credits) 4101NAU MARITIME LAW (10 credits) 4102MAR Skills Development (20 credits) 4102NAU METEOROLOGY (10 credits) 4103NAU NAVIGATION (20 credits) 4104NAU SHIPBOARD OPERATIONS (20 credits) 4105NAU SHIPPING PRACTICE (20 credits)		120 core credits at level 4 0 option credits at level 4

Information about assessment regulations

All programmes leading to LJMU awards operate within the University's Academic Framework.
<https://www.ljmu.ac.uk/about-us/public-information/academic-quality-and-regulations/academic-framework>

Opportunities for work-related learning (location and nature of activities)

Students undertake Work Based Learning in the Maritime Industry at Level 4 & Level 5 as part of the programme. For students on the OOW programme the WBL will be at sea under a Merchant Navy Training Board approved scheme with students obtaining 12 months seetime in two periods totaling 18 months. During WBL modules students will complete a portfolio of tasks and projects relating to their placement, based on theoretical studies previously covered on the programme. This will allow for the development of their self awareness skills.

Criteria for admission

A/AS Level

88 UCAS points, with at least two A2 subjects within that total. A1 subjects will be counted where this appears appropriate.

GCSE (or 'O' Level) Mathematics (grade B or above), Science and English Language grade C or above (or equivalent).

Other

Other qualifications which are equivalent to the above. Normally, the Programme Leader will interview mature, non-standard applicants providing evidence of ability to undertake the Programme.

Mature entry

The award of credits via Recognition of Prior Learning (RPL) or Recognition of Prior Experiential Learning (RPEL) will be assessed on an individual basis.

Overseas qualifications

Where English is not the applicant's first language, an IELTS score of 6.0 or equivalent within the two years prior to applying for the programme.

External Quality Benchmarks

All programmes leading to LJMU awards have been designed and approved in accordance with the UK Quality Code for Higher Education, including the Framework for Higher Education Qualifications in the UK (FHEQ) and subject benchmark statements where applicable.

The University is subject to periodic review of its quality and standards by the Quality Assurance Agency (QAA). Published review reports are available on the QAA website at www.qaa.ac.uk

Programmes which are professionally accredited are reviewed by professional, statutory and regulatory bodies (PSRBs) and such programmes must meet the competencies/standards of those PSRBs.

Support for students and their learning

The University aims to provide students with access to appropriate and timely information, support and guidance to ensure that they are able to benefit fully from their time at LJMU. All students are assigned a Personal Tutor to provide academic support and when necessary signpost students to the appropriate University support services.

Students are able to access a range of professional services including:

- Advice on practical aspects of study and how to use these opportunities to support and enhance their personal and academic development. This includes support for placements and careers guidance.
- Student Advice and Wellbeing Services provide students with advice, support and information, particularly in the areas of: student funding and financial matters, disability, advice and support to international students, study support, accommodation, health, wellbeing and counselling.
- Students studying for an LJMU award at a partner organisation will have access to local support services

Methods for evaluating and improving the quality and standards of teaching and learning

Student Feedback and Evaluation

The University uses the results of student feedback from internal and external student surveys (such as module evaluations, the NSS and PTES), module evaluation questionnaires and meetings with student representatives to improve the quality of programmes.

Staff development

The quality of teaching is assured through staff review and staff development in learning, teaching and assessment.

Internal Review

All programmes are reviewed annually and periodically, informed by a range of data and feedback, to ensure quality and standards of programmes and to make improvements to programmes.

External Examining

External examiners are appointed to programmes to assess whether:

- the University is maintaining the threshold academic standards set for awards in accordance with the FHEQ and applicable subject benchmark statements
- the assessment process measures student achievement rigorously and fairly against the intended outcomes of the programme(s) and is conducted in line with University policies and regulations
- the academic standards are comparable with those in other UK higher education institutions of which external examiners have experience
- the achievement of students are comparable with those in other UK higher education institutions of which the external examiners have experience

and to provide informative comment and recommendations on:

- good practice and innovation relating to learning, teaching and assessment observed by external examiners
- opportunities to enhance the quality of the learning opportunities provided to students

Please note:

This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content, teaching, learning and assessment methods of each module can be found in module and programme guides.