

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: EHYD105B

MODULE TITLE: Practical Techniques in Hydrography 1

CREDITS: 20

FHEQ LEVEL: 4

HECOS CODE(S): F720

PRE-REQUISITES: None

CO-REQUISITES: None

COMPENSATABLE: Y

SHORT MODULE DESCRIPTOR:

This module will allow the student to develop their understanding of physical processes and gain competence in the basic mathematics and practical techniques required to operate as a hydrographic surveyor. Classroom-based tuition is blended together with applied sessions covering essential skills in positioning and data collection.

ELEMENTS OF ASSESSMENT					
E1 (Examination)	N/A	C1 (Coursework)	100%	P1 (Practical)	Pass/Fail
E2 (Clinical Examination)	N/A	A1 (Generic assessment)	N/A		
T1 (Test)	N/A	O1 (online open book assessment)	N/A		

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to explain and apply the basic mathematical and statistical techniques required to collect and process data to published standards. A key aspect of this module is the development of a student’s applied skills in planning, collecting, and processing data relevant to hydrographic surveys.

ASSESSED LEARNING OUTCOMES: (additional guidance below; please refer to the Programme Specification for relevant Programme Intended Learning Outcomes).

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes (ALOs)	Programme Intended Learning Outcomes (PILOs) contributed to
1. Apply the basic mathematical techniques required to work effectively with hydrographic data	A broad understanding of the underpinning mathematical and scientific principles to undertake hydrographic work.
2. Conduct a range of basic survey tasks both ashore and afloat working as part of a small team	A fundamental practical understanding of the equipment and processes used to conduct hydrographic surveys and the analysis and reporting of related data
3. Prepare and present data in the form of a scientific report	Communicate the results of their scientific and technical work accurately and reliably, and with structured and coherent arguments

DATE OF APPROVAL: 25/01/2018	FACULTY/OFFICE: Academic Partnerships
DATE OF IMPLEMENTATION: 25/01/2018	SCHOOL/PARTNER: MLA College
DATE(S) OF APPROVED CHANGE:	SEMESTER: AY
MODE OF DELIVERY: distance learning	
Notes: Practical competencies had been assessed as an A1 element of assessment on the previous version of this module and attributed to a numerical grade. Discussion highlighted that this is more accurately represents the new P1 element of assessment and suits a pass/fail measurement of the competencies being assessed. This module therefore reflects this amendment to the previously coded EHYD105a (May 2015, Ross Pomeroy) The mathematics element has become a formative assessment to encourage cooperation and teamwork and establishing mathematics as an enabler to the applied learning and skills.	

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

- Framework for Higher Education Qualifications
<http://www.qaa.ac.uk/docs/qaa/quality-code/qualifications-frameworks.pdf>
- Subject benchmark statements <https://www.qaa.ac.uk/quality-code/subject-benchmark-statements>
- Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)
- QAA Quality Code <https://www.qaa.ac.uk/quality-code>

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022-23

NATIONAL COST CENTRE: 111

MODULE LEADER: Dr Jaimie Cross

OTHER MODULE STAFF: Dr Carlos Martins

Summary of Module Content

Applied mathematics and statistical techniques for surveyors. Revision and refresher in key survey principles together with opportunities to undertake data collection, and data processing. An introduction to applied survey techniques including control methods, precise positioning, acoustic data collection and application of environmental data.

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Scheduled: Online Lectures	50	Indicative figures for distance learning practical preparation and planning
Scheduled: Classroom lectures; Teaching sessions ashore and afloat	80	Mathematics, safety, teamwork, and survey techniques using a range of survey equipment. Including assessed practical competencies and skills
Independent	70	Reading and summative assessment preparation
Total	200	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	N/A	N/A
Test	N/A	N/A
Coursework	Mathematics and scientific report	100%
Practical	Practical competencies	Pass/Fail
Clinical Examination	N/A	N/A
Generic Assessment	N/A	N/A
Online open book assessment	N/A	N/A

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	N/A	N/A
Coursework (in lieu of the original assessment)	Mathematics and scientific report	100%
Coursework	N/A	N/A
Practical	Practical competencies	Pass/Fail
Clinical Examination	N/A	N/A
Generic Assessment	N/A	N/A
Test	N/A	N/A
Online Open Book Assessment	N/A	N/A

To be completed when presented for Minor Change approval and/or annually updated	
Updated by: Jaimie Cross Date: 25/01/2018	Approved by: Ross Pomeroy Date: 25/01/2018