

## 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: EHYD202

MODULE TITLE: Data Management and Charting

CREDITS: 30

FHEQ LEVEL: 5

HECOS CODE(S): F720

PRE-REQUISITES: None

CO-REQUISITES: None

COMPENSATABLE: N

**SHORT MODULE DESCRIPTOR:**

This module will allow the student to develop their understanding of instrumentation, of errors and uncertainty, and the techniques necessary to quantify them. Study of the visualisation and presentation of data including, for example, digital mapping and Geographic Information Systems (GIS), together with the use of appropriate software, will enable the student to undertake further practical field training with confidence

ELEMENTS OF ASSESSMENT					
E1 (Examination)	N/A	C1 (Coursework)	100%	P1 (Practical)	N/A
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 provide the data management and analysis tools to enable the student to quantify errors and uncertainty. Evaluation, presentation and visualisation of data for a variety of purposes, including charting are explored in detail.

**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
<ol style="list-style-type: none"> <li>1. Describe, interpret and apply appropriate data management, analytical, quality control and statistical techniques</li> <li>2. Appraise the function, specifications and limitations of hydrographic equipment</li> <li>3. Visualise and present data using manual methods and appropriate ICT</li> <li>4. Appreciate the nature of common errors and</li> </ol>	

evaluate uncertainty	
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<b>DATE OF APPROVAL:</b> 01/2013	<b>FACULTY/OFFICE:</b> Academic Partnerships
<b>DATE OF IMPLEMENTATION:</b> 03/2016	<b>SCHOOL/PARTNER:</b> MLA
<b>DATE(S) OF APPROVED CHANGE:</b>	<b>SEMESTER:</b> AY
<b>MODE OF DELIVERY:</b> distance learning	
Notes: For delivering institution's HE Operations or Academic Partnerships use if required	

### **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**

Data collection and analysis, including errors, statistical techniques, data management and uncertainty. Hydrographic survey equipment. Visualisation and presentation of data including, for example, digital mapping and Geographic Information Systems.

<b>SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]</b>		
<b>Scheduled Activities</b>	<b>Hours</b>	<b>Comments/Additional Information (briefly explain activities, including formative assessment opportunities)</b>
Lectures (on-line)	160	Indicative figures for distance learning
Practical work (on-line)	20	Including data presentation and evaluation
Directed and self-study, summative assessment and personal development planning	120	Reading and associated study leading to assessment
<b>Total</b>	<b>300</b>	<b>(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)</b>

**SUMMATIVE ASSESSMENT**

<b>Element Category</b>	<b>Component Name</b>	<b>Component Weighting</b>
Written exam	N/A	N/A
Test	N/A	N/A
Coursework	Sensors, data collection and processing	40%
	Data management, errors and uncertainty	60%
Practical	N/A	N/A
Clinical Examination	N/A	N/A
Generic Assessment	N/A	N/A
Online open book assessment	N/A	N/A

**REFERRAL ASSESSMENT**

<b>Element Category</b>	<b>Component Name</b>	<b>Component Weighting</b>
Written exam	N/A	N/A
Coursework (in lieu of the original assessment)	Sensors, data collection and processing Data management, errors and uncertainty	40% 60%
Coursework	N/A	N/A
Practical	N/A	N/A
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:** Paul Newman**Date:** 13/05/2015**Approved by:** Ross Pomeroy**Date:** 13/05/2015