Module Descriptor for MDCS41950 in 2022/2023

Short Title	Long Title	Subject Area	College	School/Unit	Last Modified
Biostatistics &Data Management	Biostatistics and Data Managem	Medicine Clinical Science	Health & Agricultural Sciences	Medicine	08 Sep 2022

UCD Level	Credits (ECTS)	Semester/Trimester	Grade Scale	VLE Setup	Module Coordinator	Status
4 - Masters	10.0	Autumn	Letter grades	Module in Brightspace	Marie Galligan	Active

Mode of Delivery	Internship Module	Clinical / Fieldwork / Placement
Blended	No	Other

Overall Places	Core/Option	General Elective	First Year Elective	International	Open Learning
80	80	0	0	0	0

Purpose & Overarching Content

This module introduces students to key concepts in data management and biostatistics for clinical research, including study design. In addition to a strong theoretical framework, this module also provides practical experience in
Database development
Data analysis using SPSS

Learning Outcomes

On completion of this module, students should be able to
Understand the importance of data management and biostatistics in clinical research
Understand core considerations of data management, including data security, source data, etc.;
Understand core principles of experimental design - sampling, randomization, types of design etc
Understand common statistical methodologies applied to data generated from clinical trials
Be able to carry out basic statistical analysis of clinical trial datasets
Create a data management plan for a clinical research project

Approaches to Teaching and Learning

Online lectures
In-class lectures
Tutorials
Group work
Hands-on computer lab sessions

Student Effort Hours

Student Effort Type	Hours
Contact Time	
Computer Aided Lab	18
Lectures	54
Total Contact Time	**72**
Specified Learning Activities	
Specified Learning Activities	48
Total Specified Learning Activities	**48**
Autonomous Student Learning	
Autonomous Student Learning	80
Total Autonomous Student Learning	**80**
Total	**200**

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Assessment Details

Assesment Type	Description	Timing	Open Book?	% of Final Grade	Component Scale	Must-Pass?	In-module Component Repeat Offered?
Continuous Assessment	Continuous Assessment	Throughout the Trimester		60	Graded	No	No
Examination	EXAM	2 hour End of Trimester Exam	No	40	Graded	No	No
Total				**100**			

Carry Forward of Passed Components
Yes

Feedback Strategy

Feedback Strategies	Sequence of Feedback
- Feedback individually to students, on an activity or draft prior to summative assessment - Feedback individually to students, post-assessment	Students will receive feedback during in-class tutorials and post-assessment.

Remediation Strategy

Remediation Type	Remediation Timing
Resit	Within Two Trimesters

Associated Staff

Name	Role
Dr Marie Galligan	Lecturer / Co-Lecturer
Dr Sinead Holden	Lecturer / Co-Lecturer
Dr Deborah Wallace	Lecturer / Co-Lecturer
Dr Ekele Alih	VLE Access Only
Ms Helen Campion	VLE Access Only
Miss Denise Gosling	Module Assistant
Mr Martin Heduan	VLE Access Only
Mrs Allison Kacperski	VLE Access Only
Professor Patrick Murray	VLE Access Only
Mr Adam Tattersall	VLE Access Only

Associated Majors

Programme	Major	Stage	Module Type
MTMED001 - Master of Science-Medicine	X874 - MSc Clinical&DiagnoBiochem FT	1	Core Module
MTMED001 - Master of Science-Medicine	X889 - MSc DataAnalyPrecisionMed FT	1	Option Module
MTLSC007 - Master of Science	X878 - MSc Health Informatics FT	1	Core Module
MTMED001 - Master of Science-Medicine	X523 - MSc Healthcare Info (Sep) FT	1	Option Module
MTMED001 - Master of Science-Medicine	X789 - MSc Clinic&Transl Research FT	1	Core Module
GDMED001 - Graduate Diploma Medicine	X293 - Grad Dip Healthcare Info FT	1	Option Module
MTMED001 - Master of Science-Medicine	X427 - MSc Clinic&Transl Research PT	1	Option Module
GCMED001 - Graduate Certificate Medicine	X912 - GC Healthcare Informatics FT	1	Core Module

For help with the information on this report, please email curriculum@ucd.ie