



Module Descriptor for MDCS41890 in 2022/2023

Short Title	Long Title	Subject Area	College	School/Unit	Last Modified
Principles of Lab Medicine	Principles of Lab Medicine	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	Spring	Letter grades	Module in Brightspace	Deborah Wallace	Active

Mode of Delivery	Internship Module	Clinical / Fieldwork / Placement
Face-to-Face	No	Other

Overall Places	Core/Option	General Elective	First Year Elective	International	Open Learning
50	50	0	0	0	0

Purpose & Overarching Content

The goal of this module is to enable students to learn how biological measures are used as endpoints in clinical research. The module will emphasise the practical requirements of using biological samples to identify endpoints

Learning Outcomes

Gain an appreciation and understanding of sample management in the clinical research context, from sample collection through to sample analysis and data reporting.
Understand the theory of biological material preservation.
Understand the infrastructure and systems needed to develop a biorepository.
Be able to develop sample management and analysis plans.
Understand the relevance and importance of biomarkers as endpoints in clinical research.
Develop a full understanding of the methodologies of biomarker development and validation.
Understand the technologies used in biomarker analysis, in both clinical research and normal clinical practice.
Gain practical experience in sample handling, processing and analysis.

Approaches to Teaching and Learning

active / task based learning
lectures
laboratory practicals

Student Effort Hours

Student Effort Type	Hours
Contact Time	
Practical	25
Lectures	55
Total Contact Time	80
Specified Learning Activities	
Specified Learning Activities	40
Total Specified Learning Activities	40
Autonomous Student Learning	
Autonomous Student Learning	90
Total Autonomous Student Learning	90
Total	210



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Assessment Details

Assesment Type	Description	Timing	Open Book?	% of Final Grade	Component Scale	Must-Pass?	In-module Component Repeat Offered?
Examination	Exam	2 hour End of Trimester Exam	No	70	Standard Conversion Scale	No	No
Lab Report	Lab Reports	Throughout the Trimester		30	Standard Conversion Scale	No	No
Total				100			

Carry Forward

of Passed Components

Yes

Feedback Strategy

Feedback Strategies	Sequence of Feedback
- Feedback individually to students, post-assessment	

Remediation Strategy

Remediation Type	Remediation Timing
Resit	Within Two Trimesters

Associated Staff

Name	Role
Ms Helen Campion	VLE Access Only
Miss Denise Gosling	Module Assistant
Mr Martin Heduan	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	X789 - MSc Clinic&Transl Research FT	1	Core Module
MTMED001 - Master of Science-Medicine	X427 - MSc Clinic&Transl Research PT	1	Option Module

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