Module Descriptor for CNWY40180 in 2025/2026

Short Title	Long Title	Subject Area	College	School/Unit	Last Modified
Introduction to Core Research	Introduction to Core Research	Conway Institute	Research Inst & Other Entities	UCD Conway Institute	21 Aug 2025

UCD Level	Credits (ECTS)	Semester/Trimester	Grade Scale	VLE Setup	Module Coordinator	Status
4 - Masters	2.5	Year-long (12 months)	Distinction/Pass/Fail (GPA Neutral)	Start of Trimester	Matthias Wilm	Active

Credits (ECTS)	Autumn Credit Allocation	Spring Credit Allocation	Summer Credit Allocation
2.50	1.00	1.00	.50

Mode of Delivery	Internship Module	Module Type	Micro-credential Module	Active & Collab Learning Space
Online	No	Other	No	No

Overall Places	Core/Option	General Elective	First Year Elective	International	Open Learning
60	60	0	0	0	0

Purpose & Overarching Content

This module is designed to introduce NEW graduate students embarking on a laboratory-based biomedical research programme to essential skills required for success. It will cover aspects of core research skills that can be applied directly to laboratory based graduate programmes of study in the Colleges of Health and Agricultural Sciences & College of Science be transferred to further graduate research and training or to employment. In addition, the course familiarises the students with the core facilities available at the Conway Institute.

It aims to provide students with the information and tools necessary to
* carry out their laboratory work in a professional manner that meets best practice standards and health and safety requirements
* identify and utilise bibliographic and electronic resources appropriate to their research
* ensure that their research is informed by, and adheres to, the highest ethical standards

The module is delivered over a 2-day period in early October and covers
* Essential practices for effective and efficient laboratory-based research
* Familiarisation with bibliographic and Internet tools
* Health & safety
* Professional ethics & ethics in biomedical research
* Familiarisation with the core facilities in the Conway Institute

Learning Outcomes

* Understanding of the key technical, analytical and people skills required for effective laboratory and project management
* Familiarisation with the concepts and tools which help clarify, analyse, evaluate and extend hypotheses
* Display responsible and safe laboratory practices that reflect a spirit of co-operation with co-workers and adhere to relevant health and safety legislation and good practice standards in operation in their laboratory
* Understand how to design experimental approaches to address research objectives and critically evaluate experimental outcomes
* Apply ethical standards to their work in a manner that respects and upholds the rights of all involved (including research subjects), conforms to the most recent and relevant good practice guidelines and adheres to all institutional and legislative requirements
* Identify and access appropriate bibliographical and Internet sources of relevance to their work and be able to use Endnote to manage references.
* Knowing what kind of core facilities are available at the Conway Institute and how to access them.

Approaches to Teaching and Learning

Learning essential behavioural patterns and security measures that govern laboratory work.

Student Effort Hours

Student Effort Type	Hours
Contact Time	
Seminar (or Webinar)	15
Total Contact Time	**15**
Specified Learning Activities	
Specified Learning Activities	20
Total Specified Learning Activities	**20**
Autonomous Student Learning	

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Student Effort Hours (continued)

Student Effort Type	Hours
Autonomous Student Learning	25
Total Autonomous Student Learning	**25**
Total	**60**

FTE Breakdown

School	FTE
S025 - School of Medicine	37
S066 - UCD Library	9
S142 - School of Agriculture and Food Science	5
S123 - Fees,State & Research Activity	49

Assessment Details

Assessment Type	Description	Timing	Open Book?	% of Final Grade	Component Scale	Must-Pass?	In-module Component Repeat Offered?
Participation in Learning Activities	The student should actively participate in the lectures since all technologies available at the Conway Institute are introduced. This enables the students to better plan their scientific projects.	Week 1 Autumn		100	Pass/Fail	No	No
Total				**100**			

Carry Forward of Passed Components
No

Feedback Strategy

Feedback Strategies	Sequence of Feedback
- Online automated feedback	

Remediation Strategy

Remediation Type	Remediation Timing
In-Module Resit	Prior to relevant PEB

Associated Staff

Name	Role
Assoc Professor John Baugh	Tutor
Ms Emer Bonham	Tutor
Professor David Brayden	Tutor
Professor Lorraine Brennan	Tutor
Professor Geraldine Butler	Tutor
Assoc Professor Gerard Cagney	Tutor
Mr Mark Crowley	Module Assistant
Ms Michelle Dalton	Tutor
Professor Aurelie Fabre	Tutor
Dr Alfonso Fernández	Tutor
Mr George Moschos-Paipetis	Module Assistant
Professor Stephen Pennington	Tutor
Ms Elaine Quinn	Module Assistant
Ms Aoife Quinn Hegarty	Tutor
Miss Eimear Ryan	Tutor
Dr Dimitri Scholz	Tutor

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Associated Staff (continued)

Name	Role
Mr Diarmuid Stokes	Tutor
Professor Cormac Taylor	Tutor
Professor Bill Watson	Tutor

Associated Majors

Programme	Major	Stage	Module Type
DRLSC001 - Doctor of Philosophy (Post 06)	X253 - Translational Med PhD FT	2	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X817 - PhD Infection Biology(SAFS) PT	2	Option Module
DRSCI001 - Doctor of Philosophy (Post 06)	X815 - PhD Infection Biology(SBBS) PT	2	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X434 - PublicHlthPhys&Sport Sc PhD PT	1	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X238 - Medicine PhD PT	2	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X237 - Medicine PhD FT	2	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X254 - Translational Med PhD PT	2	Option Module
DRSCI001 - Doctor of Philosophy (Post 06)	X234 - Biomolecular & Biomed Sc PhDPT	1	Option Module
DRSCI001 - Doctor of Philosophy (Post 06)	X234 - Biomolecular & Biomed Sc PhDPT	2	Option Module
MTMED001 - Master of Science-Medicine	X846 - MSc Experimental Physiology FT	1	Core Module
DRLSC001 - Doctor of Philosophy (Post 06)	X811 - PhD Infection Biology(SMMS) PT	2	Option Module
DRSCI001 - Doctor of Philosophy (Post 06)	X814 - PhD Infection Biology(SBBS) FT	2	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X810 - PhD Infection Biology(SMMS) FT	2	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X254 - Translational Med PhD PT	1	Option Module
DRSCI001 - Doctor of Philosophy (Post 06)	X233 - Biomolecular & Biomed Sc PhDFT	2	Option Module
DRSCI001 - Doctor of Philosophy (Post 06)	X814 - PhD Infection Biology(SBBS) FT	1	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X817 - PhD Infection Biology(SAFS) PT	1	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X434 - PublicHlthPhys&Sport Sc PhD PT	2	Option Module
DRSCI001 - Doctor of Philosophy (Post 06)	X815 - PhD Infection Biology(SBBS) PT	1	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X810 - PhD Infection Biology(SMMS) FT	1	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X253 - Translational Med PhD FT	1	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X816 - PhD Infection Biology(SAFS) FT	2	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X811 - PhD Infection Biology(SMMS) PT	1	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X816 - PhD Infection Biology(SAFS) FT	1	Option Module
DRSCI001 - Doctor of Philosophy (Post 06)	X233 - Biomolecular & Biomed Sc PhDFT	1	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X433 - PublicHlthPhys&Sport Sc PhD FT	2	Option Module
DRLSC001 - Doctor of Philosophy (Post 06)	X433 - PublicHlthPhys&Sport Sc PhD FT	1	Option Module

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