



#### HOW TO APPLY

[www.ucd.ie/apply](http://www.ucd.ie/apply) | Check our website at [www.ucd.ie/genpract](http://www.ucd.ie/genpract)

Informal inquiries to; **Mr Brian Carlin** Course Director  
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# MSc EMS

EMERGENCY MEDICAL SCIENCE

IMMEDIATE CARE

#### UCD Centre for Immediate Care Services

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## COURSE AIMS

The MSc EMS (Immediate Care) is designed to prepare and assess the ability of those health care professionals/registered practitioners who are regularly involved in pre-hospital emergency care. Candidates will develop their knowledge and skills in Immediate Care with an emphasis on the assessment, diagnosis and management of both trauma and medical emergencies in adult and paediatric patients.

## COURSE STRUCTURE

The MSc EMS (Immediate Care) Programme will be delivered over two years using a variety of learning strategies supported by feedback and mentorship. The classroom sessions will be held at the UCD Belfield campus. These sessions will be held over a number of weekends and occasional weekdays.

Year 1 of the programme (part-time) will introduce candidates to the core competencies required to manage medical and trauma emergencies in both adults and children in the pre-hospital phase of care. Therapeutics, skills training and care in special circumstances will be included in these modules.

Year 2 will include clinical placements involving delivery of advanced pre-hospital emergency care, critical appraisal skills and a research dissertation.

Successful completion of Years 1 and 2 (Modules 1-7) will lead to the award of MSc EMS (Immediate Care)

Candidates may choose to leave the Programme on completion of Year 1 with the award of Prof Dip EMS (Immediate Care).

## MODULES AND EUROPEAN CREDIT TRANSFER SYSTEM (ECTS)

The MSc EMS (Immediate Care) Programme is divided into four semesters – Total ECTS Credits: 90

### YEAR 1

Semester 1	Module 1: <i>Cardiac &amp; Trauma care</i>	(10 credits)
	Module 2: <i>Core Emergency Medical Science: Therapeutics</i>	(5 credits)
Semester 2	Module 3: <i>Research Methods</i>	(10 credits)
	Module 4: <i>Pre-Hospital Emergency care - Special circumstances</i>	(5 credits)

### YEAR 2

Semester 3	Module 5: <i>Core Emergency Medical Science: Skills</i>	(10 credits)
	Module 6: <i>Clinical placement</i>	(20 credits)
Semester 4	Module 7: <i>Minor Thesis</i>	(30 credits)

## LEARNING OUTCOMES

### KNOWLEDGE

- Core Anatomy & Physiology in health and disease
- Core therapeutics and pharmacology for advanced pre-hospital care
- All PHECC CPGs, CPG-As, CPG-Ms, medication formularies ([www.phecit.ie](http://www.phecit.ie))
- Basic and advanced emergency care in illness and injury (adults and children)
- Knowledge of the healthcare system and the factors affecting the interfaces between services
- Major incident medical management
- Important influences on healthcare delivery in society

- Core research methods (MSc)
- Patient transfer and retrieval principles

### APPLYING KNOWLEDGE

- Competence in the wide range of skills relevant to pre-hospital emergency care
- Integrating clinical assessments with available treatment options to select the appropriate care strategy
- Ensuring that the highest ethical and professional standards are adhered to
- Collecting accurate data for continuous personal and service audit purposes
- Ensuring that patient care is at all times the primary objective of the service provided
- Supervised clinical practice in pre-hospital immediate care
- Completion of a research dissertation

### JUDGEMENTS

- Clinical assessment of a wide range of conditions encountered in an urgent care setting
- Initial decision making on every problem presented
- Selection of appropriate pharmacologic, interventional and other care strategies
- Recognising personal and professional limits

### COMMUNICATIONS

- Ability to work competently under pressure
- Team working and leadership ability
- Working in unfamiliar settings and groups
- Interaction with other healthcare agencies and emergency services
- Provision of mentorship and support to colleagues
- Radio Communications

### LEARNING

- Commitment to Continuous Professional Development
- Commitment to clinical audit systems
- Understanding the crucial role of research in healthcare
- Integrating new science and healthcare developments to the field
- Clinical supervision of colleagues in certain circumstances

### ASSESSMENT

- Continuous and end of Module assessments will involve MCQ, short answer, OSCE and Project components
- In Year 2, assessment will include supervised clinical practice and submission of a minor thesis by primary research

### ENTRY CRITERIA

- Medical practitioners currently registered with the Medical Council and in possession of medical indemnity insurance for the purposes of the course
- Nurses currently registered with An Bord Altranais and in possession of medical indemnity insurance for the purposes of the course
- Advanced Paramedics currently registered with the Pre-Hospital Emergency Care Council and in possession of indemnity insurance for the purposes of the course