Ollscoil na Gaillimhe
University of Galway

Coláiste na nDán, na nEolaíochtaí Sóisialta & an Léinn Cheiltigh
College of Arts, Social Sciences & Celtic Studies

MSc (Clinical Neuroscience)

University of Galway.ie

Course Overview

Knowledge derived from neuroscience research in mental health, psychology, neurodevelopment and neurodegeneration is revolutionising how we think about and treat mental disorders. A thorough grounding in neuroscience is fast becoming an essential step for a career in academic and clinical psychology and psychiatry and for careers in neuroscience more broadly. In response to that need, this programme is designed for students with backgrounds in psychology, medicine, pharmacology and other biomedical and neurosciencerelated disciplines. It will equip students with a set of core skills in the field of clinical neuroscience including an indepth understanding of neuroanatomy, neuroimaging and neuropsychiatry. Students will have opportunities to learn through practical hands-on experience. Teaching approaches will consist of didactic lectures, problem-based learning, seminars, workshops, journal clubs, practicals and completion of a research dissertation, as well as subject-specific training in a range of areas relevant to clinical neuroscience.

Course level- MSc

Duration- 1 year, full-time

Entry Requirements

Second Class Honours NQAI Level 8 degree or equivalent in a discipline relating to neuroscience. Qualifying degrees include, but are not limited to, psychology, medicine, pharmacology and biomedical science.

3 Good Reasons to Study this Course

1. This is an exciting programme that will provide graduates with a highly marketable and transferrable combination of neuroscience skills, as well as experience of applying these skills in neuroscience research.
2. Students will receive valuable training in current research methodologies, with facilities to study in depth those methodologies most interesting to them (e.g., systematic review, wet-bench, and software methodologies).
3. . Students will be provided with an exceptional learning environment, where they can excel and capitalise on the strength of the University of Galway neuroscience community.

What Our Graduates Say

Liam McGrattan | GRADUATE

"*Having come from a Psychology background, the Master of Clinical Neuroscience provided a perfect balance between biological and psychological content, which I sought to learn about. The modules in this course included the likes of neuroanatomy, pharmacology, neurophysiology and neuropsychiatry, which did a brilliant job of describing the interrelationship between our minds and bodies. Due to COVID, I experienced this entire course online but found the content and quality of the lecturers to have kept me focused and motivated. The modules of this course used both continuous assessment and end of semester exams which prevented one from getting overly bogged down thinking about the final few weeks of each semester. The small course size provides the opportunity to develop genuine connections with people from different backgrounds. I aspire to do the Doctorate in Clinical Psychology when I am ready. This course assisted me in making the next step in my learning and landing an Assistant Psychologist Position. The opportunity to publish one's dissertation and explore future research also allows one to pursue a career in research.*"

Course Outline

The course will be of a content and format consistent with highest standards for postgraduate courses, consisting of 90 ECTS credits obtained by completion of course modules. Teaching approaches will consist of didactic lectures, problem-based learning, seminars, workshops, journal clubs, practicals and completion of a research dissertation, as well as subject specific training in a range of areas relevant to clinical neuroscience. Students will also receive valuable training in current research methodologies, being facilitated to study in-depth those methodologies most interesting to them (e.g. systematic review methodologies, wet-bench methodologies, software methodologies, etc.).

Modules include:

- Neuroanatomy
- Neurophysiology
- Medical Genomics
- Fundamental & Applied Concepts in Pharmacology
- Introduction to Molecular and Cellular Biology
- Neuropsychology
- Clinical & Experimental Cognitive Neuroscience
- Human Neuroimaging
- Neuropsychiatry & Mental Health
- Applied Statistics
- Research Methods in Cognitive Neuroscience

Career Opportunities

Graduates of this programme are likely to go on to professional training in clinical psychology, psychiatry and neurosciencerelated posts in industry or to undertake further academic work at PhD level.

Transferable Skills Employers Value

On the successful completion of this programme students will have:

- Enhanced skills in research and experimental design
- A high level of written and verbal communication
- Data management, analysis, and statistics skills
- Oral and scientific poster presentation skills
- The ability to critically evaluate published information
- Ability to work independently and in collaboration with others

Find Out More

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