

BED (HONS) SCIENCE EDUCATION - CK413

Overview

Status: Active

National Framework Of Qualifications (NFQ) Level: 8

NFQ Award Class: Major Award

Duration Full Time: 4 Academic Year(s)

Total Credits: 240

Delivery Method: In-Person

Connected Curriculum:

- Civic and Community Engagement
- Employability
- Global Reach
- Inter-and Transdisciplinary
- Research Based Teaching
- Sustainability

Sustainable Development Goals (SDGs):

- Quality Education

Graduate Attributes:

- Creator, evaluator and communicator of knowledge
- Digitally Fluent
- Effective global citizen
- Independent and creative thinker
- Socially Responsible

Work-Integrated Learning (Including Placement):

Yes

UCC policies applying to applicants/students on this programme:

- Fitness to Practise Policy
- Student Vetting Policy and Procedure

This full-time degree programme is of four years duration and enables you to become a fully qualified science teacher of two specialist subjects within these four years. Training takes place in UCC's state-of-the-art Eureka Centre for Inquiry-Based Education in Science and Mathematics and also in the science laboratories of the College of Science, Engineering and Food Science.

The course is designed to ensure that it is compliant with all requirements of the Teaching Council as specified in the relevant Teaching Council documentation: <https://www.teachingcouncil.ie/en/news-events/latest-news/curricular-subject-requirements.pdf>

On completion of the programme you will be fully qualified to teach your two specialist subjects to Leaving Certificate standard. The total number of credits studied in each subject area over the four years of the programme is summarised in the following table:

Science Subject 1	Science Subject 2	Education	Total
60 credits	60 credits	120 credits (inclusive of 60 credits of School Placement)	240 credits

On entering the programme, students choose one of the following five routes:

Route 1: Biology + Chemistry

Route 2: Physics + Mathematics

Route 3: Computer Science + Mathematics

Route 4: Chemistry + Mathematics

Route 5: Computer Science + Chemistry

In Year 1 all students study **10** credits of Education and a total of **50** credits of their two specialist subjects. In this year you will study the foundations of your two specialist science subjects and will receive an introduction to science teaching and science education.

In Year 2 all students study **20** credits of their first specialist science subject, **20** credits of their second specialist subject and **20** credits of Education. You will study your two specialist subjects in more details and will spend some time on School Placement (minimum of 3 hours per week over 10 weeks) in a local secondary school. Your School Placement will be fitted in around your UCC lectures and laboratory practical sessions.

In Year 3 all students study 30 credits of Education and a total of 30 credits of their specialist science subjects. You will continue studying your two specialist subjects in more details and will spend some time on School Placement (minimum of 3 hours per week over 10 weeks) in a local secondary school. Your School Placement will be fitted in around your UCC lectures and laboratory practical sessions.

In Year 4, all modules are education modules, with increased time spent on School Placement (minimum of 4 hours per week from August to May) and also time spent at lectures and laboratory practical sessions at UCC.

Course Practicalities

Year 1: A mixture of lectures, laboratory practical sessions, seminars and microteaching sessions.

Years 2, 3, & 4: A mixture of lectures, laboratory practical sessions, and School Placement in local secondary schools. Your workload will consist of studying lecture notes, writing up practical laboratory notes, and preparing lesson plans for the lessons that you teach in school. Your School Placement is fitted in around your normal lectures in UCC.

Assessment

Written exams take place before Christmas and in May. Not all modules will have formal examinations. Many modules use other types of assessment. In Year 1, the assessment methods consist mainly of written examinations and continuous assessment of laboratory practical work. In years 2 and 3, the assessment consists of written examinations, continuous assessments (including laboratory practical work and other means of assessment), and School Placement. Your School Placement will be supervised by a member of staff of UCC's School of Education. In year 4, the entire year is assessed mainly by means of continuous

assessment involving project work, laboratory practical work, and supervision of School Placement.

Who teaches this course

Teaching is carried out by staff drawn from the following:

School of Education

Department of Physics

School of Biochemistry and Cell Biology

School of Biological, Earth and Environmental Science (BEES)

School of Chemistry

School of Computer Science and Information Technology

School of Mathematical Sciences

School of Microbiology

Direct Entry into Third Year BEd (Hons) Science Education

This entry route is designed for graduates of Physics or Chemistry or Biology or Agricultural Science or Computer Studies who wish to teach their specialist subject(s) to the highest standard at secondary school level. Applicants who hold a degree (at least NFQ Level 7) in Physics or Chemistry or Biology or Agricultural Science or Computer Studies which satisfies the requirements of the Teaching Council for recognition to teach the subject to the highest level in secondary school or an equivalent qualification may enter this programme in Third Year and take ED2101 (<https://ucc-ie-public.courseleaf.com/search/?P=ED2101>), ED2102 (<https://ucc-ie-public.courseleaf.com/search/?P=ED2102>), ED3101 (<https://ucc-ie-public.courseleaf.com/search/?P=ED3101>) and ED3102 (<https://ucc-ie-public.courseleaf.com/search/?P=ED3102>) in Third Year before proceeding to Fourth Year. Students who enter the programme via this route must pass ED2101 (<https://ucc-ie-public.courseleaf.com/search/?P=ED2101>), ED2102 (<https://ucc-ie-public.courseleaf.com/search/?P=ED2102>), ED3101 (<https://ucc-ie-public.courseleaf.com/search/?P=ED3101>) and ED3102 (<https://ucc-ie-public.courseleaf.com/search/?P=ED3102>) in Third Year before proceeding to Fourth Year. To facilitate Direct Entry applications, all Education lectures are delivered in the evening.

Applications must be submitted to the Undergraduate Admissions Office, West Wing, UCC. All applications are assessed by the Programme Director to ensure the applicant satisfies the requirements of the Teaching Council for recognition to teach that subject. In cases where large numbers of applications are received, interviews may be used as part of the selection process.

Optional Additional Modules (fee applies)

Students may opt to register for an additional 5 credit module ED1103 (Pedagogical aspects of teaching science through the Irish language) in addition to their 60 core credits in First Year, Second Year, Third Year and Fourth Year.

Please note that a fee is applicable for taking a 5 additional credit module. This module is offered subject to the availability of staff and resources, and to the attainment of a minimum viable group size, normally six.

A student may not select an optional additional module that clashes with the timetable of any module in the student's core 60 credits of study.

Students must obtain advance approval from the Module Co-ordinator to register for this additional module. To do so, students should submit a signed Student Application Form to the Module Co-ordinator.

This optional additional module will not contribute to end of year results nor will this module contribute to the final degree award. However, marks achieved in this module will appear on the student's transcript.

Garda Vetting

Students, or applicants in receipt of an offer, on this programme will be subject to Garda Vetting as relevant. Students will be prohibited from engaging in a relevant work placement unless the vetting process has been cleared. Click here to view UCC's Student Garda Vetting Policy (<https://www.ucc.ie/en/media/studyatucc/undergrads/downloadabledocumentssection/UCCStudentVettingPolicyandProcedure.pdf>).

Fitness to Practise

This programme is subject to the University's Fitness to Practise Policy - full details may be found here (<https://www.ucc.ie/en/academicgov/aago-policies/fitnesstopractise/>).

Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p.).