

Science Education

BSc(Ed)

College of Science,
Engineering and Food
Science



University College Cork, Ireland
Coláiste na hOllscoile Corcaigh

Introduction

The BSc(Ed) is a four-year undergraduate degree which covers the study of both science and education. Graduates are fully qualified to teach their specialist subject to Leaving Certificate level and to teach biology, chemistry and physics to Junior Certificate Science level.

Why Study

Science teaching is a very challenging and worthwhile career, especially for those who enjoyed learning the subject in school and who think they would like the activity of classroom and laboratory teaching. It offers graduates the opportunity to take up a career which allows them to inspire young people. This degree is fully recognised by the Teaching Council which is a big advantage, as it means graduates do not have to undertake any additional qualifications such as the PME (Professional Master of Education).

Work Placement

In Year 2 and Year 3 students participate in teaching practice placement in secondary schools over a 10 week period, teaching for two hours per week with one hour of mentoring. In Year 4, the school placement module involves teaching over the entire school year for four hours per week or a minimum of 100 hours.

Careers

Graduates have gone onto successful careers in:

- science teaching at secondary school level
- researching in science education
- lecturing in science education.

Further Study

- Masters degree in Science Education, MEd(Sc)
- Masters degree in Education, MEd
- PhD in Science Education.

CK402 CK404 CK406 CK408

DEGREE OUTLET

COURSE PAGE ONLINE

www.ucc.ie/en/ck402/science-ed

CONTACT INFORMATION

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KEVIN BUCKLEY

GRADUATE

"I found it a huge advantage to be a fully qualified science teacher in four years. The structure allowed me to take a common first year science course before registering for the BSc(Ed) in Year 2. This allowed me the option of either a career as a scientist or in science teaching."

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KEY FACTS

- Graduates are fully qualified science teachers in four years
- A common first-year entry allows students to settle into college and think about a career in science teaching
- Outstanding purpose-built science education laboratories available in the Eureka Centre, UCC

Year 1 Modules

REFER TO CK402, CK404, CK406 AND CK408 ENTRIES ON PAGES 140, 141, 144 AND 146 IN THE FULL UCC 2017 ENTRY PROSPECTUS

Year 2 Modules

ROUTE 1 CHEMISTRY

Main Group and Transition Element Chemistry; Fundamentals of Organic Chemistry; Energetics and Kinetics; Aromatics, Carbonyls and Alkenes; Spectroscopy; Structure, Bonding and Quantum Mechanics

EDUCATION Science Education; Teaching Practice Placement

ROUTE 2 PHYSICS

Classical Mechanics; Quantum Physics; Electrostatics and Magnetostatics; Thermodynamics and Statistical Physics; Astrophysics and Special Relativity; Experimental Physics

EDUCATION Science Education; Teaching Practice Placement

ROUTE 3 BIOLOGY

Habitats and Ecosystems; Biomolecules; Fundamentals of Microbiology; Principles of Microbiology; Molecular Biology; Physics for the Environmental Sciences* or Plant Biotechnology

EDUCATION Science Education; Teaching Practice Placement

*Students who enter through CK404 take Physics for the Environmental Sciences. Students who enter through CK402 choose Plant Biotechnology

Year 3 Modules

ROUTE 1 CHEMISTRY

Physical Chemistry I & II; Inorganic Chemistry; Synthesis, Structure and Reactivity of Organic Compounds

EDUCATION Science Education; Teaching Practice Placement

ROUTE 2 PHYSICS

Optics; Quantum Mechanics; Electromagnetism; Condensed Matter Physics; Nuclear and Particle Physics; Experimental Physics

EDUCATION Science Education; Teaching Practice Placement

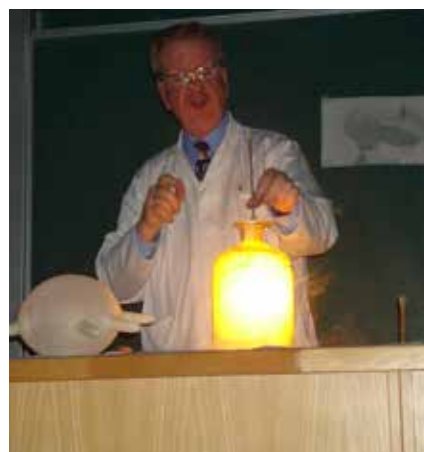
ROUTE 3 BIOLOGY

Conservation Biology; Medical Microbiology; Environmental Microbial Genomics; Plants and Hostile Environments; Plant and Animal Genetics; Adaptations to Extreme Environments

EDUCATION Science Education; Teaching Practice Placement

Year 4 Modules

Science Education; Teaching Practice Placement
 Science Education; Conceptual Foundations in School Placement Research Portfolio A; Conceptual Foundations in the Philosophy and History of Education; Conceptual Foundations in the Psychology and Sociology of Education; Conceptual Foundations in Curriculum and Assessment; Conceptual Foundations in Inclusive Education; Conceptual Foundations in School Placement Research Portfolio B



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