



UCC

University College Cork, Ireland
Coláiste na hOllscoile Corcaigh
(Updated September 2015)



BSc SCIENCE EDUCATION

Entry is via the following Course Codes:

CK402: Biological & Chemical Sciences

CK404: Biological, Earth and Environmental
Science

CK406: Chemical Sciences

CK408: Physics & Astrophysics

Duration: 4 years (Level 8 award)

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When you register for the BSc(Ed) at the beginning of second year, all students study Science Education and specialise in either the chemistry stream or physics stream or biology stream. In Second Year, you obtain an introduction to teaching science in module ED2101 (Science Education I) and also spend ten weeks on Teaching Practice Placement in a local secondary school teaching some science lessons each week under the supervision of a mentor teacher. In third year you take another Science Education module (ED3101) and spend another ten weeks on Teaching Practice Placement.

Why study Science Education?

Science teaching is a very challenging and worthwhile career. Did you enjoy learning about science in school? Do you feel you would like a career in which you spend your time helping young people to succeed? Do you think that you would like the activity of classroom and laboratory teaching? If you have answered 'yes' to these questions, then you should consider a career in science teaching. You may love teaching and become a really inspirational teacher of Science.

Programme Overview

The overall aim of this programme is to ensure that graduates have the knowledge, understanding, professional skills and confidence to be outstanding teachers of science who will inspire pupils in the classroom. Students in First Year take exactly the same subjects as all other students in CK402, CK404, CK406 and CK408. This allows you time to settle into college and decide whether you want a career in science or a career in science teaching. If you decide to opt for a career in science teaching, you register for the BSc(Ed) in second year.

Your training as a science teacher will take place in the new fully equipped and state-of-the-art science education laboratories in the Eureka Centre for Inquiry Based Education in Science and Mathematics, UCC.



Your teaching ability, portfolio of prepared lesson plans and a science teaching project all count towards the mark awarded for the science education modules. On successful completion of third year, you proceed to Fourth Year of this honours BSc(Ed) degree. In fourth year you undertake Teaching Practice Placement involving teaching six lessons per week and attend lectures covering the full range of Education topics that are necessary for you to be recognised as a fully qualified science teacher by the Teaching Council.



BSc SCIENCE EDUCATION



What will you be studying?

YEAR 1

CK402 Biological and Chemical Sciences

Core: Chemistry (10 credits), Biology (10 credits), Physics (10 credits), Mathematics (10 credits), Biochemistry (5 credits), Microbiology (5 credits)

Electives: Biology (5 credits), Biotechnology (5 credits) or Chemistry (10 credits).

CK404 Biological Earth and Environmental Sciences

Biology (15 credits), Chemistry (10 credits), Geology (10 credits), Physics (5 credits), Mathematics (5 credits), Earth Science (5 credits), Environmental Science (5 credits), Geography (5 credits)

CK406 Chemical Sciences

Students who wish to enter the BSc(Ed) programme in second year must choose Option I in this route.

Chemistry (20 credits), Physics (10 credits), Mathematics (10 credits), Biology (5 credits), Biochemistry (5 credits), Geology (5 credits), Microbiology (5 credits).

CK408 Physics and Astrophysics

Students who wish to enter the BSc(Ed) programme in second year must choose Option 2 in this route:

Physics (20 credits), Chemistry (15 credits), Mathematics (15 credits), Biology (10 credits)

YEAR 2

Route I Chemistry

· Chemistry (30 credits) · Education (30 credits).

Route II Physics

· Physics (30 credits) · Education (30 credits).

Route III Biology

· Biology (30 credits) · Education (30 credits).

YEAR 3

Route I Chemistry

· Chemistry (30 credits) · Education (30 credits).

Route II Physics

· Physics (30 credits) · Education (30 credits).

Route III Biology

· Biology (30 credits) · Education (30 credits).

YEAR 4

· Education (60 credits).

Direct Entry Route

Applicants who hold a degree (at least NFQ Level 7 with Merit 1 or Distinction) in physics or chemistry or Biology which satisfy the requirements of the Teaching Council may enter this programme in third year. Full details are given in the UCC College Calendar and in the FAQ document.

Recognition by Teaching Council

This honours BSc(Ed) degree is fully recognised by the Teaching Council as it satisfies the requirements of (i) a minimum of 60 credits in the specialist subject over three years and (ii) a minimum of 10 credits in each of the subjects Chemistry, Physics and Biology. Thus, you are a fully qualified science teacher in four years.

Teaching Practice Placement

In second year, third year and fourth year you will gain experience of teaching science in local secondary schools. This is an important part of your training as a science teacher as it enables you to experience the role of working as a science teacher. During your Teaching Practice Placement you receive support from your mentor teacher, your Teaching Practice supervisor and your UCC lecturers. In addition, you will receive valuable training in laboratory practical work in the state-of-the art science education laboratories in the Eureka Centre UCC.

Career Opportunities

This degree programme was initiated by UCC in response to the international shortage of science teachers. As this degree has international recognition, graduates have been very successful in being appointed to teaching positions in Ireland and overseas.



Postgraduate Opportunities in UCC

Graduates of this programme may proceed to the MEd or MEd(Sc) or PhD in education degrees offered by UCC. Graduates may also proceed to an MSc degree or PhD in Chemistry or Physics or Biology via the MSc(Qual) or Postgraduate Diploma in Chemistry or Physics or Biology routes.

Additional information

Further copies of this information leaflet and a FAQ (Frequently Asked Questions) document may be downloaded from: <http://www.ucc.ie/en/education/und/bsced/>

Entry Requirements

The entry requirements are the same as those for any of the following entry routes:

CK402: Biological & Chemical Sciences

CK404: Biological, Earth and Environmental Science

CK406: Chemical Sciences

CK408: Physics & Astrophysics

If you wish to discuss this programme with a member of staff please contact:

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