

5.9 FACULTY OF SCIENCE

5.9.1 FACULTY ADMINISTRATION

Origins

The modern Faculty of Science came into existence in 1908 following the establishment of UCD as a constituent college of the National University of Ireland. However, some of the Departments that contribute to its teaching programmes have their origins in the Catholic University, while others claim descent from the fusion of disciplines represented in the Museum of Irish Industry, founded 1847, and its successor, the Royal College of Science, founded in 1865 and transferred to UCD under the terms of the University Education (Agriculture and Dairy Science) Act, 1926. Two Departments, Chemistry and Botany, trace the origins of teaching and research in their respective disciplines to the Chairs of Chemistry and of Botany instituted by the Royal Dublin Society in 1796. Departments of more recent origin established since 1908 also exist. The main teaching and research activities of the Faculty are now conducted on the campus at Belfield.

Function

The Faculty of Science is the largest of Ireland's university science faculties, providing degree courses in the biological, chemical, geological, physical, mathematical and computer sciences. The Faculty provides teaching of the highest quality and carries out research of international standard.

UCD science graduates are in demand in science based employment both at home and abroad and are equally sought after in areas other than science where there are requirements for rigorously trained, numerically competent and analytically proficient graduates. Many UCD science graduates continue their studies at postgraduate level, through Higher Diplomas, Masters and PhD degree programmes or through postgraduate training in leading scientific laboratories all over the world.

Structure

Dean: Professor Michael J. Kennedy

The Faculty of Science is comprised of fourteen Departments, all of which contribute to the science programmes of study offered. Of these, nine Departments are administered by the Faculty of Science, which are as follows

- Department of Biochemistry
- Department of Botany
- Department of Chemistry
- Department of Computer Science
- Department of Experimental Physics
- Department of Geology
- Department of Industrial Microbiology
- Department of Pharmacology
- Department of Zoology

The following four Departments contributing to science degree programmes are administered by the Faculty of Arts

- Department of Mathematics
- Department of Mathematical Physics
- Department of Psychology
- Department of Statistics

The Faculty of Medicine administers the Department of Human Anatomy and Physiology.

The following three research academic centres operate under the aegis of the Faculty

- Cognitive and Computational Neuroscience Institute
- Irish Centre for Colloid Science and Biomaterials
- Smart Media Institute

The Faculty consists of 165 full-time academic staff currently teaching 2,150 students, 1,500 at undergraduate level and 650 at postgraduate level. Approximately 400 of the Faculty's postgraduate students are pursuing PhD degrees.

Programmes and services

- Co-ordinates and develops a range of undergraduate and graduate programmes of study for students of science, which are offered through its Departments and through those functioning under the auspices of the Faculty of Arts; degree level programmes offered consist of

Degree of Bachelor of Science: this programme of study can be taken as a three year course leading to the award of the BSc (General) degree in a single subject or in two subjects; there is also a four year programme of study leading to the award of the BSc (Honours) degree in a single subject or in combination with other subjects

Degree of Bachelor of Science (Computer Science): this programme of study in computer science and selected other subjects is undertaken as a four year course leading to the award of the BSc (Computer Science)

Degree of Bachelor of Science (Mathematical Science): this inter-Faculty programme of study is undertaken as a four year course leading to the award of the BSc (Mathematical Science)

Degree of Bachelor of Science (Theoretical Physics): this inter-Faculty programme of study is undertaken as a four year course leading to the award of the BSc (Theoretical Physics)

- Co-ordinates and develops a range of postgraduate programmes of study for students of science, which are offered through its Departments and through those functioning under the auspices of the Faculty of Arts; postgraduate degree level programmes offered consist of

Degree of Master of Science (MSc): this programme is offered through any Department contributing to the Faculty's programmes of study and can be undertaken by research and thesis, or by taught course with an examination, or by external study and research

Degree of Master of Applied Science (MAppSc): programmes of study for this taught degree course can be undertaken through Departments offering

programmes of study in applied physics, computer science, environmental science, food science and in safety, health and welfare at work

Specific programmes of study leading to the award of the degrees of Master of Science in Plant Molecular Biology, Master of Science in Cognitive Science and Master of Science in Radiological Sciences

Degree of Doctor of Philosophy (PhD): this programme is offered through any Department contributing to the Faculty's programmes of study and is undertaken by research and presentation of a thesis

Degree of Doctor of Science (DSc): this programme is offered through any Department contributing to the Faculty's programme of study and may be awarded on an original published work

- Co-ordinates and develops a programme of interdisciplinary undergraduate study leading to the award of the topical Bachelor of Science degree in the following five areas: Cell and Molecular Biology, Environmental Biology, Geophysical Sciences, Plant Genetic Engineering, and Environmental Geochemistry. This programme can be undertaken as a three year course of study leading to the award of a general topical BSc or over four years leading to the award of an honours topical BSc degree.
- Co-ordinates and develops the undergraduate, multidisciplinary, three year course of study leading to the award of the degree of Bachelor of Science in Occupational Safety and Health. In addition, the degree of Bachelor of Science in Occupational Safety and Health Management is offered as a part-time degree to students who have completed and achieved a high standard in the National University of Ireland Diploma in Safety, Health and Welfare at Work or its equivalent.
- Co-ordinates and develops the programme of study leading to the award of the honours Bachelor of Science degree in medical subjects for medical students or graduates
- Provides courses in the History and Philosophy of Science and in the French, German, Japanese and Spanish languages for students of science, which may be taken as part of the degree of BSc
- Co-ordinates and co-develops inter-disciplinary programmes of undergraduate and postgraduate study with the Faculties of Agriculture, Arts, Engineering and Architecture, Medicine and Veterinary Medicine, which are offered through its own Departments and relevant Departments within those Faculties
- Co-ordinates and develops a range of study for graduates of science and other selected disciplines that are offered through its Departments and through Departments functioning under the auspices of the Faculty of Arts
- Co-ordinates and develops the interdisciplinary courses of postgraduate study leading to the award of Higher Diploma in Computer Science, Computational Methods and Numerical Software, Mathematical Science, and Statistics
- Co-ordinates and develops the interdisciplinary courses of study leading to the award of the UCD Diploma in Safety, Health and Welfare at Work and to the UCD Certificate in Safety and Health at Work
- Operates a visiting scholars' programme to cater for short-term visits to the Faculty by foreign academics and facilitates their participation in formal lectures and staff seminars
- Academic staff are active in many areas of research and scholarship and in the communication of research findings through participation in seminars and conferences and by way of publication. The research interests peculiar to each Department are described under the relevant Department's entry.

- Participates in the Junior Year Abroad Programme under which undergraduate science students from Australia, Canada or the United States of America gain the opportunity to spend a full year or a single semester studying at UCD
- Accepts, at its own discretion, occasional (a period of one year), fee paying students of science
- Awards a range of scholarships and prizes to undergraduate and postgraduate students of science

Sources of information on courses

Undergraduate Prospectus

Faculty Handbook

Faculty Website

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Contact details

Faculty of Science Office, Belfield.

Tel: +353-1-716 7777

Fax: +353-1-716 2439

E-mail: science@ucd.ie

Website: <http://www.ucd.ie/~science/>

Note: details of all programmes and entry requirements, and particulars on registration, timetables, fees and awards are available from:

The Admissions Office, University College Dublin, Michael Tierney Building, Belfield.

Tel: +353-1-716 1425 or 1426

Fax: +353-1-716 1070

E-mail: admissions@ucd.ie

Website: <http://www.ucd.ie/~admiss/>

Academic Departments

5.9.2 DEPARTMENT OF BIOCHEMISTRY

Function

Originally part of the Department of Biochemistry and Pharmacology, founded in 1934, Biochemistry now forms a separate Department. Although funded by the Faculty of Science, it contributes to courses of study offered through the Faculty of Medicine, providing undergraduate courses of study that combine the molecular approach of chemistry with the breadth and diversity of biology to provide students with courses that explore all aspects of the structure and function of living things at the molecular level. During their courses of study, students are trained in the experimental and analytical techniques needed to examine living organisms, their component parts, and both the large and small molecules that play a role in the

chemistry of individual cells. Postgraduate students are offered the opportunity to engage in study and research to investigate the subject in greater depth.

Structure

Head of Department: Professor Paul C. Engel

Staff of the Department consists of 13 academic staff. There are 9 post-doctoral research staff, 8 technical staff and 2 laboratory attendants. The staffing structure also includes the NMR Manager and two administrative staff members.

Programmes and services

- Contributes to taught undergraduate programmes of study leading to the award of the degree of Bachelor of Science (BSc); biochemistry can be taken as a single subject BSc degree or in combination with another science subject as part of a two subject BSc degree
- Contributes, in conjunction with several other Departments, to the undergraduate programme of study in Cell and Molecular Biology, which can be taken as part of the BSc topical degree
- Contributes to the programme of taught undergraduate courses of study leading to the award of the degree of BSc in Molecular Genetics
- Contributes to interdisciplinary undergraduate programmes of study in Physiotherapy, Radiography, Medicine and Nursing Studies
- Contributes to taught and research postgraduate programmes of study leading to the award of the degrees of MSc, PhD and DSc
- Contributes to the undergraduate degree course in Chemical Engineering
- Houses the Biochemistry NMR centre, which is funded by the Wellcome Trust and is used for biochemical and biomedical research to help in the understanding and treatment of a range of medical conditions, including neurodegenerative disorders, diabetes, arthritis and heart disease
- Teaching staff of the Department are active in many areas of research and in the communication of research findings through participation in seminars and conferences and by way of publication. Specific areas of research include

molecular regulation of gene expression in yeast; control of differential nuclear localisation of transcription factors; cell cycle regulation, pseudohyphal growth; complement and other parameters of immune system in type 1 diabetes, diagnosis of prediabetes, the nature of autoimmune disease, medical education; protein engineering of amino acid dehydrogenases; molecular biology of acyl CoA dehydrogenases: inborn errors and cot death; signal transduction, molecular biology, cell biology, gene expression and cardiovascular biology; the cellular and molecular analysis of amino acid transporters in the mammalian brain; NMR as a probe of protein structure and function; structures and interactions of extracellular proteins and proteoglycans; biochemistry of dioxygen; haemocompatibility of biomaterials: biochemical studies on the surface reactions of blood constituents with artificial materials; water quality management of Irish recreational waters; the impact of alterations in protein glycosylation on downstream processing and quality assurance of bovine milk and blood plasma products; biochemical education; structures and mechanism of action of flavoproteins; mechanisms of immune-mediated cell death; macrophage metabolism and function; serpin structure / function relationships; role of intracellular ovalbumin-type serpins.

Sources of information on courses

Undergraduate Prospectus
Faculty Handbook
Departmental Website

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Contact details

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Website: <http://www.ucd.ie/~biochem>

5.9.3 DEPARTMENT OF BOTANY

Functions

Through its expertise in teaching and research, the Department of Botany, the largest plant science university department in Ireland and one of the largest in Europe, provides undergraduate and postgraduate courses that seek to introduce students to the study of plant science, ranging from plant biochemistry, cell and tissue culture, plant genetics, vegetation science, plant ecology, biotechnology, cell biology, molecular biology, mycology, taxonomy, environmental impact study and monitoring. The Department strives to develop interests and skills in botany in students and to stimulate their ability to communicate effectively this knowledge through oral and written presentations.

Structure

Head of Department: Professor Martin Steer

Staff of the Department consists of a head of Department, with 10 additional academic staff. There are 4 post-doctoral research staff, 1 research assistant, 10 technical staff and a number of administrative staff members.

Programmes and services

- Contributes to taught undergraduate programmes of study leading to the award of the degree of Bachelor of Science (BSc); botany can be taken as a single subject BSc degree or in combination with another science subject as part of a two subject BSc degree
- Contributes, in conjunction with several other Departments, to the programme of study in cell and molecular biology and molecular genetics, which can be taken as part of the BSc topical degree
- Contributes, in conjunction with several other Departments, to the programme of study in environmental biology, which can be taken as part of the BSc topical degree

- Contributes, in conjunction with several other Departments, to the programme of study in plant genetic engineering, which can be taken as part of the BSc topical degree
- Contributes to taught and research postgraduate programmes of study leading to the award of the degree of MSc, PhD and DSc
- Contributes to postgraduate programmes of study, teaching and research leading to the award of the degrees of MAppIsc (Environmental Science) and MSc (Plant Molecular Biology)
- Teaching staff of the Department are active in many areas of research and in the communication of research findings through participation in seminars and conferences and by way of publication. Specific areas of research include cell biology, plant molecular biology, mycology, ecophysiology of plants, vegetation science and ecology, and plant genetics.

Sources of information on courses

Undergraduate Prospectus

Faculty Handbook

Departmental Website

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

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5.9.4 DEPARTMENT OF CHEMISTRY

Function

The Department of Chemistry is responsible for undergraduate BSc honours and general degrees and postgraduate MSc and PhD degrees based on research and submission of a thesis.

Structure

Head of Department: Professor R. More O'Ferrall

The Department has 22 academic staff and 23 administrative staff. The undergraduate teaching is divided between sections of Physical, Organic and Inorganic Chemistry, each associated with established Chairs:

Professor of Physical Chemistry	K. A. Dawson
Professor of Organic Chemistry	A. F. Hegarty
Professor of Inorganic Chemistry	Vacant

Programmes and services

- There are 100 PhD students in the Department and typically 40-60 students in the 3rd and 4th year of the BSc honours classes; a small number of students also undertake a general degree
- In second and first years, chemistry in the Science Faculty is taken as one of the three or four science subjects and the numbers in these classes are typically 200 and 400 respectively
- In addition, the Department is responsible for courses for students in the Faculties of Medicine, Agriculture, Veterinary Medicine and Engineering in the first and second years; the total number of students in first year chemistry is close to one thousand; in general, numbers are limited by lecture theatre and laboratory accommodation
- Staff are awarded an average of £1m per annum in grants for postgraduate and post-doctoral research projects and the annual numbers of publications is approximately seventy
- There are research based Socrates (or similar) exchanges with universities in a number of European countries including Gottingen, Padua, Regensburg and Wurzburg; PhD students are also seconded for short periods to the chemical industry
- A chemical services unit, including high field NMR instruments, mass spectrometry and CHN analysis, provides analytical services for industry and the research school

Sources of information on courses

Undergraduate Prospectus
Faculty Handbook
Departmental Website

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

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5.9.5 DEPARTMENT OF COMPUTER SCIENCE

Function

The Department of Computer Science provides undergraduate and postgraduate courses to investigate and explore the theory, practice and use of computers and computation. Its programmes of study encompass topics ranging from the theory of computation, through software construction, hardware design and computer operating systems, to the application of computers in the development of communications, scientific and commercial systems.

Structure

Head of Department: Professor Mark Keane

The Department has 27 academic staff, including the Head of Department. Support staff amount to 10 in number.

Programmes and services

- Contributes to the programme of taught undergraduate courses leading to the award of the Degree of Bachelor of Science; computer science can be taken as a single subject for the BSc degree or in combination with one other science subject as part of a two subject BSc degree
- Contributes to the programme of taught undergraduate courses leading to the award of the Degree of Bachelor of Science (Computer Science); computer science can be taken as a single subject or as part of a two subject BSc degree
- Contributes to the programme of taught undergraduate courses offered through the Faculty of Arts and leading to the award of the degree of Bachelor of Arts; computer science can be taken in combination with other subjects offered through the Faculty of Arts
- Contributes to the programme of taught undergraduate courses leading to the award of bachelor degrees to students in the Faculty of Engineering and Architecture
- Contributes to supervised postgraduate degree programmes of teaching, study and research leading to the award of the degrees of MSc, PhD and DSc
- Contributes to the supervised postgraduate degree programme of teaching, study and research leading to the award of the interdisciplinary degree of MA/MSc in Cognitive Science
- Offers a taught postgraduate course of study that give graduates from non-computing disciplines a sound theoretical foundation and practical exposure to Computer Science leading to the award of the Higher Diploma in Computer Science. In addition, the course may qualify participants to study for an MSc in Computer Science.
- Offers, in conjunction with the Department of Mathematical Physics, taught postgraduate course of study leading to the award of the MSc (Computational Mathematics) in Computational Methods and Numerical Software
- Co-ordinates UCD's research activities in multimedia, advanced internet applications and artificial intelligence, through the Smart Media Institute, a centre for advanced research in the Department of Computer Science
- Participates in the research work of UCD's Cognitive and Computational Neuroscience Centre, an inter-disciplinary group of researchers in computer science, pharmacology, philosophy and psychology to tackle fundamental questions on a range of phenomena in cognitive and computational neuroscience, such as learning, natural language processing and thinking
- Teaching staff of the Department are active in many areas of research and in the communication of research findings through participation in seminars and conferences and by way of publication. Specific areas of research include

intelligent computing - natural language processing, speech and handwritten recognition, case-based reasoning, machine learning, cognitive models of creativity, connectionist models of natural language, agent architectures, navigation tools for hypertext

software engineering – specification, design, implementation, testing and maintenance of software. Research work of relevance to this theme is carried out in the areas of object-oriented programming, formal specification and algorithm derivation, CASE tools, groupware and office automation
multi-media systems - technologies and techniques involved in multi-media systems including voice recognition and synthesis, computer graphics, image processing, virtual reality, human computer interaction, internet developments and VRML and geographic information systems
hardware and communications - computer architectures, networks and operating systems; current active research areas include parallelism, operating systems, distributed systems and networks.

Sources of information on courses

Undergraduate Prospectus
Faculty Handbook
Departmental Website

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions
Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Contact details

Department of Computer Science, Belfield.
Tel: +353-1-716 2483
Fax: +353-1-269 7262
E-mail: <http://www.cs.ucd.ie/contents.htm>
Website: <http://www.cs.ucd.ie/>

5.9.6 DEPARTMENT OF EXPERIMENTAL PHYSICS

Function

The undergraduate and postgraduate courses of study provided by the Department of Experimental Physics seek to introduce students to the fundamental laws of the universe and represent a combination of pure and applied courses, together with a very comprehensive laboratory training program in experimental techniques. The Department also contributes to the courses of instruction offered through the Faculties of Agriculture, Engineering and Architecture, Medicine and Veterinary Medicine.

Structure

Head of Department: Professor Peter I. Mitchell

The staff consists of 18 academics, 11 technical staff, 2 administrative staff, 2 scientific assistants and 3 post-doctoral researchers.

Programmes and services

- Contributes to the programme of taught undergraduate courses leading to the award of the Degree of Bachelor of Science; experimental physics may be taken

as a Single Honours degree, as part of a Joint Honours degree with certain other cognate subjects, or as a BSc general degree

- Contributes to the inter-Departmental teaching of the BSc degree in Theoretical Physics in conjunction with the Department of Mathematical Physics
- Contributes to the programme of taught undergraduate courses leading to the award of bachelor degrees to students in the Faculties of Agriculture, Engineering and Architecture, Medicine and Veterinary Medicine
- Contributes to supervised postgraduate degree programmes of teaching, study and research leading to the award of the degrees of MSc, PhD and DSc
- Offers a course of postgraduate study in applied physics leading to the award of the degree of MAppIsc and participates in the course for the MSc (Radiology) degree
- Staff of the Department are active in research and in the communication of their findings through conferences, seminars and by way of publication. Specific areas of research include applied physics, atmospheric physics, digital image processing, high energy astrophysics, natural radioactivity, space science and advanced materials, radiation physics and radiocarbon research, and spectroscopy.

Sources of information on courses

Undergraduate Prospectus

Faculty Handbook

Departmental Website

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Contact details

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Fax: +353-1-283 7275

E-mail: Marian.Hanson@ucd.ie

Website: <http://www.ucd.ie/~physics/main.html>

5.9.7 DEPARTMENT OF GEOLOGY

Function

The Department of Geology provides undergraduate courses leading to the BSc degree in Geology, and the BSc (topical degrees) in Environmental Geochemistry and Geophysical Science. Geology is concerned with the nature and origin of materials that make up the earth and planets, and the processes that are active on the earth's surface and at depth beneath the surface. Environmental Geophysics is the study of how natural and man-made pollutants migrate and interact with each other and with near-surface geological materials. Geophysical Science involves the application of principles of physics to study the Earth and Earth processes. The Department also provides Geology courses to students in Civil Engineering and in

Agricultural Science, and contributes to the MAppSc degree in Environmental Science.

At postgraduate level, graduates are offered the opportunity to specialise, through research and training, in various areas of Geology, Geophysics and Environmental Geochemistry. Graduates with a good degree in relevant areas may be accepted for a research programme leading to the degree of MSc or PhD.

Structure

Head of Department: Professor Patrick M. Shannon

The Department of Geology currently has a permanent staff of 8 full time academic staff (a ninth staff member, serving as Dean of Science, is on leave from the Department). There are 5 technical staff and an executive assistant. There are currently 9 postdoctoral research fellows and 3 research fellows/administrators.

Programmes and services

- Contributes to the programme of taught undergraduate courses leading to the award of the Degree of Bachelor of Science (BSc); geology can be taken as a single subject for the BSc degree or in combination one other science subject as part of a two subject BSc degree
- Contributes, in conjunction with other Departments, to the programme of taught undergraduate courses leading to the award of the BSc topical degrees in Environmental Geochemistry and in Geophysical Science
- Provides Geology courses to undergraduate students in Civil Engineering and in Agricultural Science
- Contributes to a postgraduate programme of study leading to the award of the degree of MAppSc in Environmental Science
- Contributes to postgraduate degree programmes of training and research leading to the degrees of MSc and PhD
- All academic staff of the Department are active in research and in the communication of their findings through conferences, seminars and by way of publication. Research in the Department covers a broad spectrum of specialities and is commonly carried out in conjunction with researchers from other institutions. The Department is a unique centre in Ireland for research in Fault Analysis, Isotope Geology and Marine and Petroleum Geology. Specific areas of research include

basin analysis, marine and petroleum geology
geometry, kinematics and mechanics of faults, and their effects on fluid flow
Irish carboniferous palaeontology, biostratigraphy and diagenesis
Irish mineral deposits and their genesis
radiogenic isotope and REE geochemistry as applied to geochronology
palaeoclimatology, petrogenesis and geologic evolution in Ireland and elsewhere
reconstruction of late-Glacial and Holocene climates from lake sediments and speleothems
seismology and crustal structure
silicate weathering and long-term atmospheric CO₂ evolution
structural and tectonic development of the Caledonian orogen in Ireland.

Sources of information on courses

Undergraduate Prospectus
Faculty Handbook
Departmental Website

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Contact details

Department of Geology, Science Building, Belfield.

Tel: +353-1-716 2331

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E-mail: sarah.procter@ucd.ie

Website: <http://www.ucd.ie/~geology/home.html>

5.9.8 DEPARTMENT OF INDUSTRIAL MICROBIOLOGY

Function

The Department of Industrial Microbiology largely concerns itself with the provision of core undergraduate teaching for students in the Faculty of Science, although it also provides undergraduate teaching for students in the Faculty of Agriculture and the Faculty of Engineering and Architecture. Courses offered entail the study of micro organisms and deal with the application of basic scientific knowledge in the development of microbiology and biotechnology.

At postgraduate level, students are offered the opportunity to develop their knowledge through following a range of taught and research degree programmes culminating in the award of the degrees of MSc and PhD.

Structure

Head of Department: Professor Catherine T. Kelly

The Department consists of 10 academic staff, 8 technical staff, and 1 administrative staff member.

Programmes and services

- Contributes to the programme of taught undergraduate courses leading to the award of the Degree of Bachelor of Science; industrial microbiology can be taken as a single subject for the BSc degree or in combination one other subject as part of a two subject BSc degree.
- Contributes to the programme of taught undergraduate courses leading to the award of the degree of BSc in Molecular Genetics
- Contributes to the programme of taught undergraduate courses leading to the award of the topical BSc degree in Environmental Biology

- Contributes to the programme of taught undergraduate courses leading to the award of bachelor degrees to students in the Faculty of Engineering and Architecture and the Faculty of Agriculture
- Contributes to supervised postgraduate degree programmes of teaching, study and research leading to the award of the degrees of MSc, PhD and DSc
- Teaching staff of the Department are active in many areas of research and in the communication of research findings through participation in seminars and conferences and by way of publication. Specific areas of research include

microbial enzymes of commercial importance; screening and selection methods; fermentation technology as applied to enzyme production, laboratory and pilot-scale fermentation; enzyme engineering; applications of microbial enzymes in biotechnology

microorganisms as sources of enzymes; isolation, selection and recovery of enzymes; properties of enzymes of industrial importance; enzyme engineering; immobilised enzymes; thermostability and thermoinactivation of enzymes; microbial enzymes and biotechnology; whole cell technology biosynthesis of polyketide natural products; characterisation of complex polyketide synthase genes and proteins; engineered biosynthesis of novel pharmaceutical compounds

fungal adaptation to the environment; fungi in marine ecosystems; coastal ecosystem processes; fungal biodegradation; microbiology of the soil rhizosphere

applied enzymology and kinetics; mechanisms of action of microbial enzymes; novel uses of enzymes, particularly in environmental microbiology; microbial degradation of xenobiotics, bioremediation

bacterial endospores and parasporal inclusions; control of microbial contamination in the pharmaceutical and cosmetic industries; microbiology of oligotrophic aqueous environments e.g. bottled water

genetic engineering and process strategies for the optimisation of expression of cloned genes; plasmid replication and maintenance; survival of genetically modified bacteria in ecosystems; horizontal gene transfer; genetic manipulation of filamentous fungi

strategies to enhance the stability of fermentation systems through the use of immobilised cell technology (ICT)

design of inoculum delivery systems

use of ultrasonic technology in biotechnology

novel proteins and the effect of protein misfolding on cell-survival; with a special interest in the prion protein which is involved in prion diseases; prion like proteins in yeasts

metabolic regulation; regulation of gene expression; interaction between intracellular pathogenic bacteria and macrophages; identification and detection of bacteria; molecular ecology

biosynthesis of fluorinated natural products by bacteria; enzymes involved in halogenation and dehalogenation

application of microbial enzymes in the production of hydroxylated aromatic compounds of industrial interest

microbiology of modified packaged foods; control of spoilage and pathogenic microorganisms in Sous Vide products; isolation and identification of pathogenic bacteria; quality assurance for the food industry; microencapsulation of microorganisms and their products.

- The Department also contributes to the research work of the Molecular Microbiology Group, which is affiliated to the UCD Conway Institute of Biomolecular and Biomedical Research, which brings together researchers from five Faculties

Sources of information on courses

Undergraduate Prospectus

Faculty Handbook

Departmental Website

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

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5.9.9 DEPARTMENT OF PHARMACOLOGY

Function

The Department of Pharmacology provides its students with undergraduate and postgraduate courses of study in the nature, actions and uses of drugs. Teaching also focuses on toxicology, the study of the harmful effects of chemicals on living organisms, which forms an important component of the pharmacology discipline.

Structure

Head of Department: Professor Michael P. Ryan

In addition to the head of Department, staff comprises an associate professor, 3 senior lecturers, 3 college lecturers and one Newman scholar. There is also a Departmental secretary.

Programmes and services

- Contributes to the programme of taught undergraduate courses leading to the award of the degree of BSc. Pharmacology can be taken as a single subject for the BSc degree or in combination with selected other subjects as part of a two subject BSc degree. It can also be taken in combination with molecular genetics as part of a two subject BSc joint honours degree.
- Contributes to the programme of study and research leading to the award of the BSc topical degree in the Environmental Sciences offered through the Faculty of Science
- Offers supervised postgraduate degree programmes of teaching, study and research leading to the award of the degrees of MSc, MMedSc, PhD and DSc

- Contributes to the postgraduate programme of study and research leading to the award of the degree of MAppIsc in environmental science in conjunction with other Departments
- Provides a range of resources and services to the pharmaceutical industry through the training of qualified research scientists
- Offers, through the Conway Institute for Biomolecular Research, a multidisciplinary environment for training and research and opportunities for partnership through collaborative research and consultancy to the medical and healthcare professions and related industries
- Teaching staff of the Department are active in many areas of research and in the communication of research findings through participation in seminars and conferences and by way of publication. Specific areas of research include

renal and cardiovascular pharmacology and toxicology; neuropharmacology and neurotoxicology, cardiovascular pharmacology and signal transduction; endocrine pharmacology, molecular biology and cancer; europharmacology; immunology: relevance to neurobiology; pharmacology and biochemistry of skeletal muscle; cellular and molecular mechanisms of renal disease.

Sources of information on courses

Undergraduate Prospectus
Faculty Handbook
Departmental Website

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

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5.9.10 DEPARTMENT OF ZOOLOGY

Function

The Department of Zoology contributes to undergraduate courses of study in the main subject area of zoology as part of the Faculty of Science programmes. It provides courses in the study of animals, their structure, and the way their bodies work, the way they live and reproduce, their relationship with each other and their environment, their classification and the history of their evolution.

The postgraduate degrees offered by the Zoology Department are MSc and PhD, both of which are based on research projects and assessed on the basis of the thesis presented. A one-year full-time MAppIsc degree in environmental science, which involves both formal lectures and research, is also available and is given in co-

operation with other Departments. The degree of DSc in Zoology can also be obtained through publication of original research.

Structure

Acting Head of Department: Dr Mark Rogers

The staff of the Department comprises 12 academics, 12 technical and laboratory staff and 1 executive assistant. There are approximately 55 postgraduate students and 2 post-Doctoral Fellows.

Programmes and services

- Contributes to the programme of taught undergraduate courses leading to the award of the degree of BSc; zoology can be taken as a single subject for the BSc degree or in combination with other subjects
- Contributes to the programme of taught undergraduate courses leading to the award of the BSc joint honours degree with Molecular Genetics
- Contributes to the programme of study and research leading to the award of the BSc topical degree in the Environmental Sciences offered through the Faculty of Science
- Contributes, in conjunction with several other Departments, to the programme of study in cell and molecular biology, which can be taken as part of the BSc topical degree
- Contributes to the postgraduate programme of study and research leading to the award of the degree of MAppIsc in environmental science in co-operation with other Departments
- Teaching staff of the Department are active in many areas of research and in the communication of research findings through participation in seminars and conferences and by way of publication. Specific areas of research interest include

enzyme regulation, calcium metabolism and behaviour, effects of heavy metal pollution on animal systems, molecular aspects of population genetics; responses of forest ecosystems to acid deposition and global change, and structure and function of animal communities in forests; fishery science, general limnology acidification and afforestation, stream canopy problems for salmonid fish; marine ecology: age, growth and condition of larval and juvenile marine fishes, relationship of oceanography to the distribution of fishes; ecology, reproduction, social organisation and mating systems of mammals, population and biochemical genetics of mammals, vertebrate endocrinology; immunoparasitology: analysis and characterisation of parasitic antigens, immunodiagnosis: development of immunodiagnostic tests for human and veterinary medicine; freshwater ecology; taxonomy and ecology of Chironomidae (Diptera); palaeolimnology and lake history; intracellular protein transport: importance in embryonic development, tumour growth and drug targeting across epithelial cells; animal genetics; prion diseases with reference to the cell biology of infected cells and the mode of replication of prions; chemically mediated plant/insect interactions; plant/insect co-evolution; chemically mediated interactions between the equine and strongyloid nematodes.

Sources of information on courses

Undergraduate Prospectus
Faculty Handbook
Departmental Website
Zoology Department Brochure

Records held

Administration: Committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Technical: Financial, health and safety and an asset register

Contact details

Department of Zoology, Science Building, Belfield.

Tel: +353-1-716 2265

Fax: +353-1-716 1152

E-mail: mark.rogers@ucd.ie

Website: <http://www.ucd.ie/~zoology/zoology.html>

Research Academic Centres

5.9.11 COGNITIVE AND COMPUTATIONAL NEUROSCIENCE CENTRE

The Cognitive and Computational Neuroscience Centre (CCNC) was founded in 1999 to bring together an interdisciplinary group of researchers in computer science, psychology, philosophy and pharmacology to tackle fundamental questions on a range of phenomena in cognitive and computational neuroscience. Each of the core disciplines provides accounts of mental activity at different levels of granularity, based on computational models and tools from computer science. Taking a fundamental ability like learning, in neuroscience, it is now feasible to characterise the neural changes that occur when learning takes place and trace the neurological pathways and regions involved in this mental act. In psychology, we can characterise the informational contents of learning in precise computational models that can predict behavioural outcomes. From philosophy comes the conceptual tools for analysing and assessing the solutions to the question of the relationship between the mind and the brain built up over the last 3,000 years. Beyond these fundamental issues, the Centre also develops tools that have practical implications for the information technology and pharmaceutical industries.

Director: Professor Mark Keane

Contact details

Cognitive and Computational Neuroscience Centre (CCNC), Department of Computer Science, Belfield

Tel: +353-1-716 2469

Fax: +353-1-269 7262

Website: <http://www.cs.ucd.ie/CCNC>

5.9.12 IRISH CENTRE FOR COLLOID SCIENCE AND BIOMATERIALS

The Irish Centre for Colloid Science and Biomaterials is an inter-disciplinary research centre combining elements of chemistry and physics, particularly in relation to soft matter and colloidal science with elements of biology. It involves academics, researchers, postgraduates and technical staff. Funding is by a combination of basic, applied and company research funding. Extensive long-term ties are maintained with equivalent groups in Europe and the United States of America, and students often reside for part of the time abroad in a distinguished specialised laboratory.

Director: Professor Kenneth A. Dawson

Contact details

The Irish Centre for Colloid Science and Biomaterials, Chemistry Department, Belfield.

Tel: +353-1-716 2447/2300

Fax: +353-1-716 2415

E-mail: kenneth@fiachra.ucd.ie

5.9.13 CENTRE FOR SAFETY AND HEALTH AT WORK (CSHW)

The Centre for Safety and Health at Work is an academic centre, set up as part of the University Industry Programme in 1991, and now affiliated to the Faculty of Science. The aim of the Centre is to provide a focus for academic occupational health and safety activities in the campus. Its functions are to administer Continuing Professional Education and Advanced Training Courses in Occupational Safety and Health; to provide a framework for research in related areas; and to offer advice and consultancy services to industry and the public sector. It brings together a wide range of expertise available in UCD and from external experts. The Academic Directors are Dr Caroline Hussey, who is also Registrar of UCD, and Mr Peter Start, former college safety officer. The courses offered by the CSHW are

- Certificate in Safety and Health at Work
- Diploma in Safety, Health and Welfare at Work
- BSc in Occupational Safety and Health
- BSc in Occupational Safety and Health Management
- Masters of Applied Science (Safety, Health and Welfare at Work)

Contact details

Centre for Safety and Health at Work, Roebuck, Belfield.

Tel: +353-1-716 8700

Fax: +353-1-283 0669

Website: <http://www.ucd.ie/uip/directory/centre.html>

5.9.14 SMART MEDIA INSTITUTE (SMI)

The Smart Media Institute is a centre for advanced research in the Department of Computer Science at UCD. Established in 1999, the Smart Media Institute coordinates UCD's research in multimedia, advanced Internet applications, and artificial intelligence. The Institute has the largest concentration of leading researchers in this area in Ireland. Some ten Faculty members participate in the Institute, with a complement of some 60 MSc and PhD students and 120 postgraduates in taught programmes. In the last several years, research by the Institute's members has attracted over 3M in research funding from industrial partners and international funding agencies. Current funded research includes projects in personalized information services, information-integration, -retrieval, and -extraction, virtual worlds, agent-based computing, network security, and digital watermarking. SMI strives to spin off its research developments into campus companies. Changing Worlds, an Internet content personalisation specialist, was founded in 1999.

Director: Professor Mark Keane

Contact details

Smart Media Institute, Computer Science Department, Lucasiewicz Building, Belfield.

Tel: +353-1-716 2469

Fax: +353-1-269 7262

Website: <http://www.smi.ucd.ie>

5.10 FACULTY OF VETERINARY MEDICINE

5.10.1 FACULTY ADMINISTRATION

Origins

The Faculty of Veterinary Medicine, established in 1946, was preceded as the centre for veterinary education in Ireland by the Royal Veterinary College of Ireland, which was founded in 1901. The Faculty of Veterinary Medicine at UCD is now the sole centre for veterinary education in Ireland. The Faculty and its Veterinary Teaching Hospital are located at the site of the Veterinary College at Ballsbridge, 2km from the main campus at Belfield. Teaching and research facilities are also available at the University's farm at Lyons Estate, Newcastle, Co. Dublin, which is 30km from Ballsbridge. Construction of a new purpose-built veterinary school on the main Belfield campus began in June 2000 and the buildings are scheduled for occupation in mid-2002. The new facilities will greatly enhance learning opportunities for students, the provision of care for animal patients and the Faculty's research capability.

Function

The primary remit of the Faculty is to train veterinary surgeons to a high degree of professional competence. These high standards are a prerequisite for the registration of veterinary surgeons by the Veterinary Council.

Structure

Dean: Professor Michael Monaghan.

The Faculty comprises 8 Departments that contribute to its courses of study. These are

- Department of Animal Husbandry and Production
- Department of Small Animal Clinical Studies
- Department of Large Animal Clinical Studies
- Department of Veterinary Anatomy
- Department of Veterinary Microbiology and Parasitology
- Department of Veterinary Pathology
- Department of Veterinary Physiology and Biochemistry
- Department of Veterinary Surgery

The Faculty's Veterinary Teaching Hospital complements the Departmental structure and caters for a wide range of both large and small animals.

The staff of the Faculty consists of 63 academics, 14 administrative and 58 support staff. Approximately 75 students now graduate each year, after five years of intensive study.

Programmes and services

- Offers a five-year degree course leading to the award of the degree of Bachelor of Veterinary Medicine (BVB), enabling the holder to practice as a veterinary surgeon in Ireland and other EU countries
- The Faculty has intern and residency programmes in clinical and para-clinical disciplines, which allow recent graduates to gain experience while working

under the supervision of Faculty members. Residents also have the opportunity to acquire formal postgraduate qualifications.

- Postgraduate degrees offered by the Faculty are

Master of Veterinary Medicine (MVM)
Master of Animal Science (MAnSc)
Master of Science (MSc)
Doctor of Philosophy (PhD)
Diploma in Veterinary Nursing

- The Veterinary Teaching Hospital provides clinical and diagnostic services, predominantly on a referral basis, to owners of animals and their veterinary surgeons. The caseload provides important opportunities for students to complete their clinical training.
- One of the major resources of the Faculty is the Veterinary Medicine Library, which is the major repository of veterinary literature within the State and is available to, and constantly used by, members of the veterinary profession as well as by postgraduates, undergraduates and staff of the Faculty

Sources of information on courses

Undergraduate Prospectus
Faculty Handbook
Faculty Website
Faculty Research Report 1998-2000
Pegasus – Faculty magazine

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Contact details

Faculty of Veterinary Medicine, Ballsbridge.

Tel: +353-1-668 7988 ext.2665

Fax: +353-1-668 7878

E-mail: vetmed@ucd.ie

Website: <http://www.ucd.ie/~vetmed/>

Veterinary Teaching Hospital website: <http://www.ucd.ie/~vthweb/vthindex.htm>

Note: details of all programmes and entry requirements, and particulars on registration, timetables, fees and awards are available from:

The Admissions Office, University College Dublin, Michael Tierney Building, Belfield.

Tel: +353-1-716 1425 or 1426

Fax: +353-1-716 1070

E-mail: admissions@ucd.ie

Website: <http://www.ucd.ie/~admiss/>

Academic Departments

5.10.2 DEPARTMENT OF ANIMAL HUSBANDRY AND PRODUCTION

Function

The role of the Department is to provide teaching in veterinary medicine and engage in research in a broad range of animal production systems.

Structure

Head of Department: Dr Mark Crowe

Staff consists of 8 academic (2 of whom are part-time in the Department), 6 technical staff and one executive assistant.

Programmes and services

- Staff of the Department teach Animal Husbandry and Production to undergraduate students of veterinary medicine in their 1st, 2nd and 3rd undergraduate years
- Provides an active research programme leading to postgraduate degrees of Masters of Veterinary Medicine, Masters of Animal Science and PhD

Sources of information on courses

Undergraduate Prospectus
Faculty Handbook
Departmental Website

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Contact details

Department of Animal Husbandry and Production, Ballsbridge.

Tel: +353-1- 668 7988 ext. 2637

Fax: +353-1-660 0883

E-mail: Miriam.Phelan@ucd.ie

Website: <http://hermes.ucd.ie/~vetanimal/Husbandry.html>

5.10.3 DEPARTMENT OF SMALL ANIMAL CLINICAL STUDIES

Function

The function of the Department is to teach Small Animal Medicine and veterinary pharmacology to undergraduate and postgraduate students in the Veterinary Teaching Hospital and to provide both a first opinion and a referral service for the public veterinary surgeons in Ireland.

Structure

Head of Department: Professor Boyd R. Jones

Staff consists of 8 academic, 3 technical and 3 administrative staff, together with 2 residents, a kennel attendant and 5 nurses/trainee nurses.

Programmes and services

- The Department provides lectures, tutorials, clinical instruction to 4th and final year Veterinary students and provides both a first opinion and a referral service for the published veterinary surgeons in Ireland
- Postgraduate training in pharmacology and clinical specialities and research training is provided to interns, residents and postgraduate students to prepare for European and Royal College speciality examinations, MVM and PhD degrees. The Department is recognised by the European College of Veterinary Internal Medicine as an approved training centre for residents.
- The Department has a research focus with a variety of research and clinical research projects being undertaken by staff members and postgraduate students

Sources of information on courses

Undergraduate Prospectus
Faculty Handbook
Departmental Website
SACS Newsletter
SACS Annual Report

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Contact details

Department of Small Animal Clinical Studies, Ballsbridge.

Tel: + 353-1- 668 7988 ext 2657

Fax: +353-1- 667 5401

E-mail: sacs@ucd.ie

Website: <http://hermes.ucd.ie/~vetsacs/index.htm>

5.10.4 DEPARTMENT OF LARGE ANIMAL CLINICAL STUDIES

Function

The function of the Department is to contribute to undergraduate and postgraduate teaching in the Veterinary Faculty, to the management of the Veterinary Teaching Hospital and to provide specialised services to the farming community, co-operating veterinary practices throughout Ireland, Government and semi-State bodies and the agri-food industry.

Structure

Head of Department: Professor John D. Collins

The Department comprises the Large Animal Hospital and Ambulatory Clinic, the Herd Health Laboratory, the Clinical Reproduction Unit and the Food Hygiene Laboratory. The Veterinary Epidemiology and Tuberculosis Investigation Unit operates under the *aegis* of the Department.

Staff comprises 10 academic, 4 technical and 2 administrative staff, together with a hospital nurse, 2 laboratory attendants, 2 animal attendants, 8 research staff including professional staff members on secondment from the Department of Agriculture, Food and Rural Development, and from Teagasc.

Programmes and services

- The Department is responsible for large animal clinical instruction to veterinary students attending each of the five years of the undergraduate course. It is also responsible for the course in veterinary public health, food hygiene and food safety.
- Its members take part in the management of the Large Animal Hospital which provides a referral and emergency service for veterinary surgeons. Students gain experience from both formal lectures and supervised in-practice tuition.
- The Large Animal Hospital provides a year-round service for the farming community and co-operating veterinary practices throughout Ireland. The ambulatory clinic deals mainly with cattle and sheep cases on farms. Much of the clinical teaching programme is conducted both in the hospital and on cooperating farms and a problem-solving approach to animal health and disease is adopted against a commercial background.
- The Food Hygiene Laboratory undertakes research on food safety in the meat, poultrymeat and dairy industries at the pre- and post-harvest phases and provides food safety support and advice to cooperating producers and processors and to State and semi-State bodies
- Members of the Department are actively engaged in basic and applied research in each of the above-named areas

Sources of information on courses

Undergraduate Prospectus
Faculty Handbook
Departmental Website

Records held

Administration: Financial, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Contact details

Department of Large Animal Clinical Studies, Ballsbridge.

Tel: +353-1- 668 7988 ext.2675

Fax: +353-1- 668 7878

E-mail: jcollins@vetmed.ucd.ie

Website: <http://hermes.ucd.ie/~vetlacs/LACS.html>

5.10.5 DEPARTMENT OF VETERINARY ANATOMY

Function

The function of the Department is to provide undergraduate teaching in Veterinary Medicine and to engage in research in a broad range of anatomical, biological and biomedical subjects.

Structure

Head of Department: Professor Stephen J. Carrington

Staff consists of 5 academics, 4.4 technicians, 1 executive assistant and 3 research assistants (on fixed term contracts).

Programmes and services

The anatomy course is delivered over the first 2 years of the veterinary degree programme. It relates the gross and histological structure and development of mammalian body form to its function. The course is based around the comparative anatomy of the principal domestic species, and adopts a topographical and systematic approach. Examples of material from other species are also provided.

The Department has particular research interests in the role of mucin glycoproteins in the formation of mucosal barriers, and also in the development of ultrasensitive methods for the detection of biomolecules.

Sources of information on courses

Undergraduate Prospectus

Faculty Handbook

Departmental Website

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Contact details

Department of Veterinary Anatomy, Ballsbridge.

Tel: +353-1-668 7988 ext.2621

Fax: +353-1-668 7878

E-mail: Frances.LeMatti@ucd.ie

Website: <http://hermes.ucd.ie/~vetanat/index.html>

5.10.6 DEPARTMENT OF VETERINARY MICROBIOLOGY AND PARASITOLOGY

Function

The function of the Department is to provide undergraduate teaching in the 3rd year of the Veterinary Medicine degree course; to offer diagnostic services for the veterinary profession in Microbiology and Parasitology; to engage in research in infectious diseases of animals.

Structure

Head of Department: Professor Patrick J. Quinn

There are thirteen staff members: 5 academic and 7 technical staff and a Departmental senior executive assistant. In addition, there are currently 12 postgraduate students and 2 postdoctoral researchers working in the Department.

Programmes and services

The Department has responsibility for teaching veterinary microbiology, which includes bacteriology, virology, mycology and immunology, and parasitology which includes helminthology, entomology and protozoology.

Sources of information on courses

Undergraduate Prospectus
Faculty Handbook
Departmental Website

Records held

Administration: Financial, legal, health and safety records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Contact details

Department of Veterinary Microbiology and Parasitology, Ballsbridge

Tel: +353-1- 668 7988 ext.2685

Fax: +353-1- 660 8656

E-mail: vetmp@ucd.ie

Website: <http://hermes.ucd.ie/~vetmicro/micropara.html>

5.10.7 DEPARTMENT OF VETERINARY PATHOLOGY

Function

The function of the Department is to provide undergraduate teaching, a diagnostic service and to carry out research in Veterinary Pathology.

Structure

Head of Department: Professor Brian J. Sheahan

Staff consists of 5 academic staff, 7 technical staff and 1 executive assistant.

Programmes and services

The central philosophy of the Department of Veterinary Pathology is that a solid foundation in anatomical and clinical pathology is best gained through an in-depth study of case material. The Department provides a diagnostic service to the UCD Veterinary Teaching Hospital, about 250 general practitioners and various organisations, including the National Wildlife Service. Postgraduate training is provided in anatomical pathology and clinical pathology.

Sources of information on courses

Undergraduate Prospectus
Faculty Handbook
Departmental Website

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Contact details

Department of Veterinary Pathology, Ballsbridge.

Tel: +353-1- 668 7988 ext.2605

Fax: +353-1- 660 3422 or 668 8337

E-mail: brian.sheahan@ucd.ie

Website: <http://hermes.ucd.ie/~vetpath/Vetpath.html>

5.10.8 DEPARTMENT OF VETERINARY PHYSIOLOGY AND BIOCHEMISTRY

Function

To provide undergraduate teaching in Veterinary Medicine and to engage in research in a number of disciplines dealing with a broad range of mammalian physiological sciences.

Structure

Head of Department: Professor Alan Baird

Staff consists of 5 academic, 4 technical staff and 1 senior executive assistant.

Programmes and services

- The Department is involved in the teaching of students in the Veterinary Faculty. Veterinary students study this course in their first two undergraduate years.
- The Department has particular research interests in the processes of inflammation in the gastrointestinal tract and other body systems
- The Department hosts a number of graduate students registered for Masters and Doctoral level degrees

Sources of information on courses

Undergraduate Prospectus

Faculty Handbook
Departmental Website

Records held

Administration: Financial, legal, health and safety, committee records and documentation relating to all administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Contact details

Department of Veterinary Physiology and Biochemistry, Ballsbridge.

Tel: +353-1- 668 7988 ext. 2618

Fax: +353-1- 660 1279 or +353-1-627 4914

E-mail: Marie.Wallace@ucd.ie

Website: <http://hermes.ucd.ie/~vetphysio/PhysioBio.html>

5.10.9 DEPARTMENT OF VETERINARY SURGERY

Function

The function of the Department is to provide clinical tuition in anaesthesia, imaging and surgery to undergraduate and postgraduate Veterinary students, and a first opinion service and a referral service for veterinary surgeons through the Veterinary Teaching Hospital, and to engage in applied clinical and basic research.

Structure

Head of Department: Professor Christopher R. Bellenger

Staff consists of 9 academic staff, 6 residents and 1 intern, together with 2 postgraduate students.

Administrative, secretarial and reception staff, technical staff, nursing staff and animal attendants support the activities of the Department.

Programmes and services

- Clinical tuition in small and large animal surgery, anaesthesia and diagnostic imaging is given to 4th and final year undergraduates, the most intensive tuition in the Veterinary Teaching Hospital occurring in the Final Veterinary Year
- The Veterinary Teaching Hospital provides both a first opinion service and a referral service for veterinary surgeons
- Postgraduate clinical research training is provided to house surgeons and residents who are prepared for speciality examinations as well as enrolled for the MVM degree
- Much of the research in the Department is applied clinical research utilising the hospital patients or animals on farms. More basic research is often performed in collaboration with scientists from other disciplines including engineering and biochemistry.

Sources of information on courses

Undergraduate Prospectus
Faculty Handbook
Departmental Website

Records held

Administration: Financial, health and safety, committee records and documentation relating to administrative functions

Academic: Student (undergraduate and postgraduate), examination, teaching and research records

Contact details

Department of Veterinary Surgery, Ballsbridge.

Tel: +353-1-668 7988 ext.2649

Fax: +353-1-667 2272

E-mail: moya.ryan@ucd.ie

Website: <http://hermes.ucd.ie/~vetsurg/Vetsurg.html>
