Stepping onto a plane at Los Angeles International Airport four years ago, Rachel Davey knew she was in for an adventure but what followed was to be the experience of a lifetime.

Rachel’s passion for animals and wildlife led her to enrol in a Bachelor of Applied Science at the Gatton campus, from which she graduated in 2006. Studying in Australia was a longtime dream for the US student, knowing a little about the unique wildlife but craving some first-hand experience, Rachel set out for Australia with little idea of what to expect.

“I had read about the program offering at Gatton on the Internet but not knowing the geography well I didn’t really know what to expect.” Rachel said.

“I knew that I wanted to work with animals and Australia has some of the most unique wildlife on the planet so it seemed like a natural place to start.”

“The staff at the Gatton campus were fantastic. I have been involved in such a wide variety of projects and learnt so much during my time here.”

During her studies Rachel had the opportunity to spend 30 days at Taronga Zoo in Sydney where she participated in shows and aided in the training of the animals. She will take up a position as an animal trainer at Sea World in the US later this year.
AGRICULTURE, ANIMALS, FOOD & ENVIRONMENT

Why choose UQ for studies in Agriculture, Animals, Food & Environment?

With strengths in disciplines associated with Agriculture, Animals, Food and Environment, UQ is internationally recognised as Australia’s premier education and research centre in these fields. From campuses at Gatton and St Lucia in sub-tropical, Southeast Queensland, UQ offers a wide range of study programs that can be tailored to your career aspirations. Complementing these studies, students undertake related work with government and private sector employers, providing industry experience and valuable networking opportunities. Further opportunities exist for students to undertake overseas work experience, study tours and exchange programs at international universities.

UQ has a distinguished reputation for the excellence of its graduates. They are people with the right mix of technical knowledge, practical experience and ability to succeed in their chosen fields. Many students secure jobs even before graduation and many of our graduates have progressed to positions of leadership in industry, science and the community in Australia and across the world.

UQ is also committed to providing the best education and research resources, as well as demonstrating our confidence in the future of the Agriculture, Animals, Food and Environment sectors. As evidence of this dedication, UQ has invested $30 million enhancing those resources, including:

> a seven-hectare wildlife study centre
> Small Animal Clinic and Veterinary Teaching Hospital with high-tech X-ray, ultrasound, CT-scanning, scintigraphy, intensive care, cardiology, ophthalmic surgery and intensive care facilities
> pastoral veterinary centre and affiliated veterinary practices
> modern food-processing plant and new food-technology laboratories
> Australian stockhorse stud with comprehensive stables, yards, equitation areas and equine-breeding complex complete with embryo-transfer laboratory
> state-of-the-art laboratories for chemistry, microbiology, genetic engineering, nutrition, physiology and performance evaluation research
> nursery, greenhouses and tissue-culture facilities
> a wind tunnel for conducting spray application and irrigation system research
> post-harvest facilities including a packing shed and cold rooms, and
> modern plant and machinery.

These facilities are being further bolstered with the planned multi-million dollar relocation of UQ’s School of Veterinary Science to the Gatton campus and the recent opening of the $33 million Centre for Advanced Animal Science at UQ Gatton in partnership with Queensland’s Department of Primary Industries and Fisheries.

Degrees in this discipline

- Agricultural Science
- Applied Science
- Environmental Management
- Food Technology
- Veterinary Science

Certificate in this discipline

- Agriculture

Associate degree in this discipline

- Applied Science

Career opportunities in this discipline

Agriculture, Animals, Food and Environment are growth sectors providing excellent career prospects. Covering the broadest range of industries, issues and challenges, there are enormous opportunities within all these sectors that can be as exciting and as rewarding as you want to make them. Given the global community’s reliance on food, fibre and a sustainable environment, there is also the opportunity to make a real contribution to the world in which we live.

UQ graduates with qualifications in these fields are in high demand from public and private sector employers in areas such as:

- agribusiness
- agronomy and horticultural consulting
- animal production
- animal health and welfare
- banking and finance
- commodity trading
- crop and pasture production
- economics
- ecotourism
- education and teaching
- environmental management and rehabilitation
- environmental science
- extension services
- farming
- food and fibre production
- food processing and service
- forestry
- genetics
- industry
- organisations and agropolitics
- land management
- livestock management
- marketing
- marine management
- natural resource management
- parks and recreational facility management
- policy and administration
- research and development
- the media
- veterinary science
- wildlife and nature conservation

> food science and technology
> genetics
> industry
> organisations and agropolitics
> land management
> livestock management
> marketing
> marine management
> natural resource management
> parks and recreational facility management
> policy and administration
> research and development
> the media
> veterinary science
> wildlife and nature conservation
ACADEMIC PROGRAMS

BACHELOR OF Agricultural Science

Location St Lucia, Gatton
Commencement semesters 1, 2
Duration 4 years full-time
Mode Also available externally
Admission requirements Queensland Year 12 (or equivalent) English (see also pages 94-95), Chemistry and Mathematics B
Honours Students successfully completing the standard program Additional program information is provided in the tables on pages 84-86
Program outline The Bachelor of Agricultural Science is the most comprehensive of UQ’s range of agricultural programs, providing students with more opportunities to develop general or specialised expertise. A four-year program, it provides students with a sound knowledge of scientific, technological, management, economic, environmental and social principles associated with agriculture.
The first two-and-a-half years of study provide students with a solid grounding in the basic principles common to all agricultural industries and a taste of possible areas of elective study.
The sixth semester consists of a six month internship in an agricultural production enterpriseento enter into a research institution.
This placement allows you to apply what you have learnt so far, build upon your knowledge to gain valuable industry experience and develop contacts for future employment at the same time.
The remainder of the program allows you to pursue your own interests through an individual research project and elective courses.
If you want to build a successful career in fields like research and development, production, management or service industries such as rural finance this program is for you.
Placement Courses Thirty working days of approved industry practice in at least two positions in agriculture before the end of the program (and prior to commencing AGRC3000) is required.
Supplementary information It is expected that students will have private access to a computer and the Internet.
An internal student attends lectures, tutorials and practicals on campus. An external student receives instruction by mail or via the Internet. Both internal and external students have residential school requirements.
Career opportunities Agricultural Science graduates from UQ are held in high regard with employers; many securing jobs in high regard with employers; many securing jobs in the agribusiness sector in stockfeed, livestock, dairy, lot-fed beef, pig, chicken meat and egg production enterprises within the dairy, lot-fed beef, pig, chicken meat and egg industries; extensive livestock production enterprises within the beef, wool, sheep meat and goat industries; within government departments and industry organisations; within the agribusiness sector in stockfeed, livestock, seed, fertiliser and chemical companies; and in new and emerging rural industries.
Professional memberships Graduates are eligible for membership of:
- Australian Institute of Agricultural Science and Technology
- Australian Society of Animal Production
- Nutrition Society of Australia
Dual programs > Arts
Sample first year courses > Agronomy
> Animal Structure and Function
> Agricultural and Ecological Economics
> Biodiversity and Our Environment
> Biometrics I
> Business Management
> Chemical Energetics and Reactivity
> Ecology of Natural and Agricultural Systems
> Environment and Society
> Genes, Cells and Evolution
> Introductory Microbiology
> Introduction to Marketing
> Knowledge Management in Natural and Agricultural Systems
> Land Use and Management
> Natural Resource Management
> Plant Utilisation in Agriculture and Natural Environments
> Systems Thinking and Practice for Environmentally and Agriculture Industries
> The Soil and its Environment
Contact details International Recruitment Manager www.uq.edu.au/international/enquiry Phone (outside Australia) + 61 3 8676 7004 (within Australia – free call) 1800 671 980

QUEENSLAND CERTIFICATE OF Agriculture

Location Gatton
Commencement semester 1
Duration 1 year full-time
Program outline The Queensland Certificate in Agriculture is unique – a complete educational program which allows for formal entry into the workforce or articulation into higher-level University or Vocational Educational systems with credit.
The program consists of four applied skills courses and four theory courses including:
- Applied Animal Production; Animal Studies;
- Applied Plant Production; Plant Studies;
- Applied Workplace Health and Safety; Farm Infrastructure and Equipment;
- Rural Communication and Rural Business Management.
- Some distance education courses may be available in internal mode only.
- Some distance education courses may also be available in external mode.
- It is expected that students will have private access to a computer and the Internet.
- An internal student attends lectures, tutorials and practicals on campus.
- An external student receives instruction by mail or via the Internet.
- An external student has a residential school requirement.
Supplementary information Students attend directly to the Faculty of Natural Resources, Agriculture and Veterinary Science.
Career opportunities Graduates will find employment in broadacre grain and cotton farms; nurseries, fruit and vegetable production and processing enterprises; intensive livestock production enterprises within the dairy, lot-fed beef, pig, chicken meat and egg industries; extensive livestock production enterprises within the beef, wool, sheep meat and goat industries; within government departments and industry organisations; within the agribusiness sector in stockfeed, livestock, seed, fertiliser and chemical companies; and in new and emerging rural industries.
Sample first year courses > Animal Studies
> Applied Animal Production
> Applied Plant Production
> Applied Workplace Health and Safety
> Farm Infrastructure and Equipment
> Plant Studies
> Rural Business Management
> Rural Communication
Contact details International Recruitment Manager www.uq.edu.au/international/enquiry Phone (outside Australia) +61 3 8676 7004 (within Australia – free call) 1800 671 980

BACHELOR OF Applied Science

Location St Lucia, Gatton
Commencement semesters 1, 2
Duration 3 years full-time
Mode Also available externally
Admission requirements BAppSc (Food Science and Nutrition); Queensland Year 12 (or equivalent) English (see also pages 94-95), Chemistry and Mathematics B
Honours Available as an extra year of study
Supplementary information > With the exception of Food Science and Nutrition, Integrated Resource Management and Veterinary Technology majors or extended majors, all fields are offered in internal and external modes.
You are able to tailor your study by selecting either one extended major (see information below) or alternatively you could choose two single majors to combine two areas of interest.
Placement Courses Work experience (30 working days) is a requirement for graduation and gives you an opportunity to gain valuable practical experience in a real workplace setting.
Program outline Applied Science is the science of applying knowledge from one or more natural scientific fields to practical problems. The study of Applied Science at UQ will provide students with not only a broad understanding of a variety of scientific principles but also the skills to apply their knowledge to solve problems and provide solutions to a variety of scientific and technical problems in agriculture.
The Bachelor of Applied Science will provide you with a broad background in basic sciences. The degree offers a flexible three year program with a diverse range of specialisations, making it possible to enter into a wide range of industries.
You are able to tailor your study by selecting either one extended major (see information below) or alternatively you could choose two single majors to combine two areas of interest.

Location Gatton
Commencement semester 1
Duration 1 year full-time
Admission requirements Five Sound Achievements in Year 10 (or equivalent), including English (see also pages 94-95), Mathematics and a Science subject
Program outline The Bachelor of Agricultural Science is unique – a complete educational program which allows for formal entry into the workforce or articulation into higher-level University or Vocational Educational systems with credit.
The program consists of four applied skills courses and four theory courses including:
- Applied Animal Production; Animal Studies;
- Applied Plant Production; Plant Studies;
- Applied Workplace Health and Safety; Farm Infrastructure and Equipment;
- Rural Communication and Rural Business Management.
- With the exception of Food Science and Nutrition, Integrated Resource Management and Veterinary Technology majors or extended majors, all fields are offered in internal and external modes.
- An internal student attends lectures, tutorials and practicals on campus.
- An external student receives instruction by mail or via the Internet.
- An external student has a residential school requirement.
Supplementary information Students attend directly to the Faculty of Natural Resources, Agriculture and Veterinary Science.
Career opportunities Graduates will find employment in broadacre grain and cotton farms; nurseries, fruit and vegetable production and processing enterprises; intensive livestock production enterprises within the dairy, lot-fed beef, pig, chicken meat and egg industries; extensive livestock production enterprises within the beef, wool, sheep meat and goat industries; within government departments and industry organisations; within the agribusiness sector in stockfeed, livestock, seed, fertiliser and chemical companies; and in new and emerging rural industries.
Sample first year courses > Animal Studies
> Applied Animal Production
> Applied Plant Production
> Applied Workplace Health and Safety
> Farm Infrastructure and Equipment
> Plant Studies
> Rural Business Management
> Rural Communication
Contact details International Recruitment Manager www.uq.edu.au/international/enquiry Phone (outside Australia) +61 3 8676 7004 (within Australia – free call) 1800 671 980

Animal and Plant Biosecurity (Gatton)
This major may be studied in either external or external mode. Safeguarding Australia’s animal and plant resources through adequate security and quarantine is the basis for the Animal and Plant Biosecurity Major. Students interested in working within biosecurity and quarantine roles such as the Australian Quarantine and Inspection Service (AQIS) or Customs are able to complete the full bachelor of Applied Science with a major in Animal and Plant Biosecurity. Students can further enhance their career options by combining their studies with business, animals or plants, depending on their area of interest.
Animal Science (Gatton)  
This major may be studied in either internal or external mode. Animal Science is concerned with the scientific and business aspects of the production of beef cattle, dairy cattle, horses, poultry, sheep, and pigs. Animal Scientists research and distribute newly discovered information regarding the biology and management of production animals. Animal Scientists also supply their knowledge to benefit the general public through the efficient, humane and environmentally responsible use of animals for food, companionship and recreation.

Conservation Management (Gatton)  
This major may be studied in either internal or external mode. The Conservation Management major focuses on protected area management within a conservation framework. It provides key skills and perspectives needed to achieve conservation goals within parks and protected areas as well as manage the interface between protected areas and the broader landscape.

Equine Science (Gatton)  
This major may be studied in either internal or external mode. Equine Science is a specialised area of animal science which uses the horse as the model to study areas such as nutrition, reproduction, exercise physiology, health and rehabilitation as well as welfare and behaviour. This knowledge is then applied to improve the management and welfare of horses and welfare and wellbeing of the leisure horse and the equine athlete. Equine Science also includes areas of study which explore the interaction of horse and rider.

Food Nutrition (St Lucia)  
Food and nutrition covers all aspects of the food system from farm to fork. The food system is not only concerned with on-farm production, off-farm food processing, and distribution of produce for sale, but also the selection and consumption of the food by the consumer including the effects of food on their health. Food science covers the physical nature and chemical composition of food to enable us to understand how and why food behaves under different conditions of processing and storage. We use this information to improve the safety and quality of food as well as extend the range of products available. The science of nutrition studies the effects of dietary nutrients on growth, development, health and well-being in the population. It also examines the psychological, sociological and cultural factors which influence food choice, with a particular focus on the consequences for health.

Integrated Resource Management (St Lucia)  
Integrated Resource Management is a new course that deals with the management of two or more natural resources in the same general area. It focuses especially on the complex interactions between environment, economics and people in finding solutions to the many resource issues facing our world. We live in a most exciting world and are faced with complex resource issues facing our world. We live in a general area. It focuses especially on the complex cutting-edge field that deals with the management of production animals, forestation, parks, marine parks, conservation areas, nature reserves, recreation areas or other protected areas and natural resources. In their day-to-day work they may assist with habitat revitalisation, patrolling parks and waterways for law enforcement, undertaking surveys and monitoring on the condition of natural and cultural heritage. Significant features to ensure the protection of endangered animals and plants, assist in research projects and wildlife management projects, supervise and coordinate fire management, pest and plant control programs, and undertake park maintenance activities including campgrounds and walking tracks. This knowledge is then applied to improve the management and welfare of horses and welfare and wellbeing of the leisure horse and the equine athlete. Equine Science also includes areas of study which explore the interaction of horse and rider.

Parks and Wildlife Management (Gatton)  
This major may be studied in either internal or external mode. Parks and wildlife management, depending on their area of specialisation, may be involved in the management of national parks, marine parks, conservation areas, nature reserves, recreation areas or other protected areas and natural resources. In their day-to-day work they may assist with habitat revitalisation, patrolling parks and waterways for law enforcement, undertaking surveys and monitoring on the condition of natural and cultural heritage. Significant features to ensure the protection of endangered animals and plants, assist in research projects and wildlife management projects, supervise and coordinate fire management, pest and plant control programs, and undertake park maintenance activities including campgrounds and walking tracks. This knowledge is then applied to improve the management and welfare of horses and welfare and wellbeing of the leisure horse and the equine athlete. Equine Science also includes areas of study which explore the interaction of horse and rider.

Wildlife Management (Gatton)  
This major may be studied in either internal or external mode. Wildlife management, varying with the scientific and business aspects of the production of beef cattle, dairy cattle, horses, poultry, sheep and pigs. Wildlife Scientists research and distribute newly discovered information regarding the biology and management of production animals. Wildlife Scientists also supply their knowledge to benefit the general public through the efficient, humane and environmentally responsible use of animals for food, companionship and recreation.

Career opportunities  
Applied Science graduates from UQ enjoy very high regard with employers; many securing jobs within the industry prior to graduating. The more advantageous side of an Applied Science degree at UQ is the diversity of opportunities it provides through the valuable contacts made during the vocational placement you will undertake during your program. Depending on their area of specialisation (or extended major/majors) Applied Science graduates find employment in a variety of fields.

Professional memberships  
Depending on the major completed, graduates of the BAppSc may be eligible for membership of:  
- Australian Association of Breeding and Genetics  
- The Australasian Wildlife Management Society  
- The Australian Institute of Agricultural and Resource Economics  
- The Australian Institute of Agricultural Science and Technology  
- The Australian Institute of Food Science and Technology  
- The Australian Institute of Horticulture Research  
- The Australian Mammal Society  
- The Australian Society of Animal Production  
- The Australian Society for Horticultural Science  
- The Australian Rangeland Society  
- The Ecological Society of Australia  
- The Environment Institute of Australia  
- The Equine Science Society  
- The Nutrition Society of Australia  
- The Royal Australian Institute of Parks and Recreation  
- The Wildlife Society

Dual programs  
- Agribusiness  
- Arts  
- Business Management  
- Economics  
- Social Science

Sample first year courses  
- Animal Welfare, Behaviour and Handling  
- Agricultural and Environmental Chemistry II  
- Biometrics I  
- Cells to Organisms  
- Chemical Energetics and Reactivity  
- Chemical Structure and Reactions  
- Food Science  
- Genes, Cells and Evolution  
- Introductory Biology  
- Knowledge Management in Natural and Agri-Food Systems  
- Plant and Animal Biology  
- Plant Utilisation in Agriculture and Natural Resources  
- Problem Solving in Natural and Agri-Food Systems  
- Systems Thinking and Practice for Environmental and Agri-Food Industries

Additional cost  
- Students enrolled in some plans within Animal Studies as part of the Bachelor of Applied Science are required to complete an industry placement for $300. This course has an industry placement component which may cost students up to $300.

Contact details  
International Recruitment Manager  
www.uq.edu.au/international/enquiry  
Phone (outside Australia) + 61 3 8676 7004  
(within Australia – free call) 1800 671 980
ACADEMIC PROGRAMS

ASSOCIATE DEGREE IN
Applied Science

Location Gatton
Commencement semesters 1, 2
Duration 2 years full-time
Mode Also available externally

Admission requirements Queensland Year 12 English (see also pages 94-95) (or equivalent)
Additional program information is provided in the tables on pages 84-86

Program outline
Applied Science is the science of applying knowledge from one or more natural sciences to real world problems. The study of applied science at the University of Queensland will provide you with not only a broad understanding of a variety of scientific principles but also the skill to apply your knowledge to solve problems and provide solutions to a variety of situations – a vital skill sought by employers and therefore a particular advantage when entering the workforce.

Why study an associate degree?
> An Associate Degree is a 2 year program which provides full articulation into a Bachelor Degree program in a directly related area of study (the previously offered Diploma program only provided between 12 and 18 months credit towards a degree).
> The Associate Degree program may offer the opportunity to gain prerequisite subjects at a University level (ie, Maths, Chemistry and Biology) required for entry into a degree program.
> An Associate Degree qualification provides a broad-based point of entry to employment, in particular in a range of associate professional occupations.

Placement Courses
Work experience (30 working days) is a requirement for graduation and gives you an opportunity to gain valuable practical experience in a real workplace setting.

Supplementary information
An internal student attends lectures, tutorials and practicals on campus. An external student receives instruction by mail or via the Internet.

Majors
Animal Production
This major may be studied in either internal or external mode. Animal Production is a specialised animal science that combines some aspects of business management. Like other animal production industries, the equine industry requires animals that are produced and grown efficiently. Those who work in the equine industries must produce animals which are able to attain and maintain a high level of athletic performance, remain sound and interact in a cooperative manner with humans. As a result, modern equine management demands a depth of scientific knowledge and skills with an intensive and individual focus.

Forestry
This major may be studied in either internal or external mode. Forestry, very broadly, is the management of trees and forests. This term is used occasionally to imply differentiation between conventional forests, managed in Australia by State and Local Government on long rotations for timber production and private forestry, agroforests or forests, which may encompass diverse management, products and objectives (www.greenhouse.gov.au/nrm).

Marine Resources
This major may be studied in either internal or external mode. Marine Resources encompasses both organic and inorganic resources, including land and water and ice, located in, or under the world’s oceans. Marine Resources also includes wildlife inhabiting water on a permanent, temporary or seasonal basis.

Plant Studies
This major may be studied in either internal or external mode. Plant Studies deals with the development of sustainable agricultural systems to improve crop productivity and lifestyle (in the case of lifestyle horticulture). Plant Studies seeks to create conditions for enhanced food security and general economic development, while conserving the natural environment. Plant Studies incorporates the study of both agronomy and horticulture.

Wilderness Reserves and Wildlife
This major may be studied in either internal or external mode. People working in Wilderness Reserves and Wildlife, depending on their area of specialisation may be involved in the management of national parks, marine parks, conservation areas, nature reserves, recreation areas or other protected areas and natural resources. In their day-to-day work they may assist with educating visitors, patrolling parks, and waterways for law enforcement, undertaking surveys and monitoring on the condition of natural and culturally significant features, ensuring the protection of endangered animals and plants, and assisting in research projects and wildlife management projects. Supervising and coordination of fire management, weed eradication and pest-control programs and undertaking park maintenance activities including campgrounds and walking tracks.

Career opportunities
Applied Science graduates from UQ enjoy very high regard with employers; many securing jobs within the industry prior to graduating. The main advantage of studying the Associate Degree in Applied Science at UQ is the diversity of opportunities it provides through the valuable contacts made during vocational placement you will undertake during your program and the ability to gain credit towards a degree. Depending on the area of specialisation, graduates find employment in a variety of fields including (but not limited to):
> Agricultural production; agribusiness firms; technicians in government departments.
> Riding instructors; screws or stable hands; horse handlers; technical sales people with stockfeed and saddlery firms; equestrian journalists; assistants in horse studs; veterinarian assistants; and senior grooms in competition stables.
> Biosecurity Officers (Stock Inspectors) with Government agencies (DPI&F), Quarantine Officers and in Stock and Station Agent roles.
> Park Ranger, Environmental Officer, Landcare Coordinator, Biodiversity Officer, Nature Guide, Technical Officer, Consultant.

Sample first year courses
> Animal Welfare, Behaviour and Handling
> Introductory Biology
> Knowledge Management in Natural and Agrifood Systems
> Plant Animal Biology
> Plant Utilisation in Agriculture and Natural Environments
> Systems Thinking and Practice for Environmental and Agrifood Industries

Contact details
International Recruitment Manager
www.uq.edu.au/international/enquiry
Phone (outside Australia) + 61 3 8676 7004
(wwithin Australia – free call) 1800 671 980

BACHELOR OF
Environmental Management

Location St Lucia, Gatton
Commencement semesters 1, 2
Duration 4 years full-time
Mode The Natural Systems and Wildlife major is also available externally

Admission requirements
Natural Systems and Wildlife: Queensland Year 12 (or equivalent) English (see also pages 94-95), Mathematics B, Biological Science and/or Chemistry are recommended
Sustainable Development: Queensland Year 12 (or equivalent) English (see also pages 94-95), Agricultural Science, Biological Science and/or Geography are recommended
Honours Available as part of standard program

Program outline
Environmental Management is the integration of economics and ecology to utilise and conserve natural systems and includes many measures taken for the protection, conservation and preservation of the environment, habitat and natural resources.

Environmental Managers consider the scientific, technical, economic, social and management aspects of development to produce strategies to manage environmental resources and to maintain the usefulness of that environment for inhabitants by humans and other species. By studying this program students will be equipping themselves with the scientific, technical, financial, social and managerial information necessary to analyse problems and produce innovative environmental management solutions.

Placement Courses
Work-experience (30 working days) is a requirement for graduation and gives you an opportunity to gain valuable practical experience in a real workplace setting.

All students undertake a 16-week industrial placement within Australia or overseas.

Supplementary information
Natural Systems and Wildlife is available both internally and externally (Sustainable Development is available internally only).

An internal student attends lectures, tutorials and practicals on campus. An external student receives instruction by mail, or via the Internet. Regardless of whether you study in internal or external mode the program is the same.

Courses offered in the external mode may have residential school requirements.

It is an expectation that students will have private access to a computer and the Internet.
### BACHELOR OF Food Technology

**Location** St Lucia  
**Commencement semesters 1, 2**  
**Duration** 4 years full-time

**Admission requirements**  
Queensland Year 12 or equivalent in English (see also pages 94-96), Chemistry and Mathematics B  
Honours Available as part of standard program  
Additional program information is provided in the tables on pages 84-86

**Program outline**  
Food Technology is the application of food science to the selection, preservation, processing, packaging, distribution, and use of safe, nutritious and wholesome food.  
Food scientists and food technologists study the physical, microbiological and chemical makeup of food. Depending on their area of specialisation, Food Technologists may develop ways to process, preserve, package or store food.

**Placement Courses**  
There is a 20-week (4 semester) placement in the food industry in the third year, where students gain a taste of working in a food company and get assurance food technology in action. Students often gain their first job after graduation with the food company where they spent their industry placement.

**Supplementary information**  
It is expected students will have private access to a computer and the Internet.  
Every second year, a two-week tour of the relevant veterinary board).

### Career opportunities

Graduates find employment in a variety of areas throughout the supply chain which includes (but is not limited to) areas such as:  
- Food Microbiologist  
- Food Standards Officer  
- Food Technologist  
- Process and product development  
- Production management  
- Quality assurance  
- Research and development  
- Technical sales

### Professional memberships

The Australian Institute of Food Science and Technology  
AGRICULTURE, ANIMALS, FOOD & ENVIRONMENT

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### BACHELOR OF Veterinary Science

**Location** St Lucia  
**Commencement semester 1**  
**Duration** 5 years full-time

**Admission requirements**  
Queensland Year 12 or equivalent in English (see also pages 94-96), Chemistry, Mathematics B plus either Physics or Biology  
Honours Available as part of standard program  
Additional program information is provided in the tables on pages 84-86

**Program outline**  
Veterinary science is the application of medical, diagnostic and therapeutic principles to companion, domestic, exotic, wildlife and production animals. Veterinary science is vital to the study and protection of animal production practices to the health and monitoring the spread of widespread disease. It requires the acquisition and application of scientific knowledge from multiple disciplines and uses technical skills towards disease prevention in both domestic and wild animals.

Human health is protected by veterinary science working closely with many medical professionals by the careful monitoring of livestock health as well as its unique training in epidemiology and emerging zoonotic diseases worldwide.

Veterinarians assist in ensuring the quality, quantity and security of food supplies by working to maintain the health of livestock. Veterinary scientists are very important in chemical, biological and pharmacological research.

**Placement Courses**  
- Students are required to undertake 8 weeks of vacation work (in their own time) by the end of their third year of study.  
- Fourth year students undertake 8 weeks of clinical practical work.  
- Final year students undertake 3 weeks of specialist practice.

**Supplementary information**  
- The School of Veterinary Science is relocating to the Gatton campus, with classes expected to start at Gatton at the beginning of the 2010 academic year. Students should be aware that a large proportion of practical work is currently undertaken at the Gatton campus and they will be expected to travel to the campus regularly.  
- Students must pass all courses listed for any given semester to be able to progress to the next semester.  
- Students who are enrolled in the Bachelor of Veterinary Science program and withdraw from the program having completed the requirements of the Bachelor of Veterinary Science degree, may be awarded that degree.  
- It is an expectation that students will have private access to a computer and the Internet.

**Career opportunities**  
Graduates from the Bachelor of Veterinary Science are employed as veterinary professionals in a number of areas including (but not limited to): urban and rural private practitioners in Australia and abroad; consultants on aspects of animal production and disease control; consultants with governments dealing with the control of animal disease and the efficiency of animal production; advisors to industry (especially pharmaceutical and biotechnology companies) and educators and/or researchers with universities and governments.

### Professional memberships

Graduates are entitled to practice throughout Australia and in all countries with a reciprocal agreement (upon payment of the subscript to the relevant veterinary board).

**Sample first year courses**  
- Animal Handling, Behaviour and Welfare for Veterinary Students  
- Animal Husbandry  
- Cell and Tissue Biology  
- Digestion, Metabolism and Nutrition  
- Functional Anatomy of Locomotion and the Integument  
- Molecular Basis of Life  
- Veterinary Biology and Histology  
- Veterinary Professional Studies

### Contact details

International Recruitment Manager  
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Phone (outside Australia) + 61 3 8676 7004 (within Australia – free call) 1800 671 980