

School of Equine and Animal Science

Equine Studies and Science

BSc (Hons) Equine Studies (with Award)
FdSc Equine Studies (with Award)
Higher Certificate Equine Studies
BSc (Hons) Equine Studies and Business Management
BSc (Hons) Equine Science (with Award)
FdSc Equine Science
BSc (Hons) Equine Breeding and Stud Management
BSc (Hons) Equine Sports Therapy
BSc (Hons) Human and Equine Sports Performance

Animal Science and Management

BSc (Hons) Animal Management
BSc (Hons) Animal Management (with Award)
FdSc Animal Management
BSc (Hons) Animal Science
BSc (Hons) Animal Science (with Award)
FdSc Animal Science
Higher Certificate Animal Studies

Sports and Exercise Performance

BSc (Hons) Sports and Exercise Performance
BSc (Hons) Sports and Exercise Performance (with Award)
FdSc Sports and Exercise Performance

FACTFILE:

Typical Offer Honours degree:

UCAS Tariff Points	160 – 200
BTEC National Diploma	MMP
OCR National Extended	P2
Diploma (18 Units)	
Irish Leaving Certificate	CCCC
Scottish Highers	190 - 240 points
International Baccalaureate	24 points

Typical Offer Foundation degree:

UCAS Tariff Points	60
BTEC National Diploma	PPP
OCR National Extended	P3
Diploma (18 Units)	
Irish Leaving Certificate	CC
Scottish Highers	90 - 120 points
International Baccalaureate	24 points

The equine and animal industries are very diverse and offer a wide range of careers in a large number of ancillary organisations including government agencies, nutrition and pharmaceutical companies, marketing, retailing and journalism.

Equine and Animal Science

Employers today are seeking well-trained, professionally qualified staff who are able to relate scientific theory to practical situations. Writtle's graduates have a proven track record in securing exciting and challenging positions in all sectors of the equine and animal industry, both at home and abroad, in vocational and commercial situations. Employers clearly recognise the benefits of courses which combine the development of practical competence with commercial awareness and academic ability.

College teaching staff is highly regarded within the industry, with several members of the team involved with research and consultancy activities for key organisations such as the British Equestrian Federation and all associated disciplines, British Breeding, the British Horse Society, The Animal Health Trust, The Royal Veterinary College, The Countryside Agency, Milk Development Council, Animal Medicines Training Regulatory Authority (AMTRA) and Department for Environment, Food and Rural Affairs (Defra). This results in students obtaining excellent contacts within the industry, with key figures regularly contributing to lecture programmes. The College is also a member of the British

Equine Trade Association. International exchanges are currently available with universities in the USA, Canada and Finland as part of the Honours and Foundation degree programmes. Writtle College works with a number of organisations to give students the best possible opportunities for employment and research, including Dengie Feeds, Ingatestone Saddlery Centre, The Countryside Agency, British Eventing, British Breeding, the British Equestrian Federation, the British Society of Animal Science, the British and Irish Association of Zoos and Aquariums, and the British Pig Executive. The College's proximity to Newmarket, the new Great Leighs racecourse and Colchester Zoo, as well as other notable international horse venues and animal collections is maximised for the students' benefit.

It is likely that the 2012 Olympics being held in London will increase demand for graduates in the equine area. The College is an official training camp for equestrian teams for the London 2012 Olympics.

Industrial placements

All students are offered the opportunity to complete an industrial placement. For Foundation degree courses this is compulsory. Students may either complete a one year placement in paid employment or a summer placement of at least 10 weeks between Years 1 and 2 of a Foundation degree or at any stage of an Honours degree. Individual arrangements may be made as appropriate for those with existing employment experience.

Equine Open Days 2009-10

The following Equine Open Days are planned for prospective higher education equine students:

Saturday 2nd May 2009

Saturday 17th October 2009

Saturday 28th November 2009

Saturday 16th January 2010

Saturday 13th February 2010

Please check the College website to confirm the dates. Pre-event registration is required. Please contact:

Jane Hart

Equine Admissions Tutor

Tel: **+44 (0)1245 424200**

Email: **equine@writtle.ac.uk**

Where possible, registration is required approximately two weeks prior to the event so that necessary arrangements can be made. These open days are only for small groups of equine students. For those unable to attend on one of the dates shown, please contact the Equine Admissions Tutor and we will do our best to make alternative arrangements.

The above dates are subject to change. Students are strongly advised to contact the College before planning their visit. College Open Days are also held once a month from October to July on Wednesdays. See page 4 for details.



Equine Resources

Writtle College Equine Training & Development Centre provides stabling for around seventy horses and incorporates a range of stable design features. The 50 x 25 m indoor arena, two large outdoor arenas, jumping paddock and cross country course provide an excellent teaching resource for practical stable management and equitation teaching and training. The Centre is also equipped with a weighbridge, horsewalker and a mechanical horse all used within the teaching of applied Equine Science modules.

The Equine Training and Development Centre also provides a 20 box Student DIY Livery Yard. Students taking advantage of Writtle's DIY livery have use of all College facilities and the opportunity to compete in Riding Club and College-run events. The College runs BHS training courses while Writtle Riding and Equestrian Club provides extra-curricular riding tuition, lectures, demonstrations, trips to major events, and the chance to compete in BUCS equestrian team competitions.



The Lordships Stud

The well-established Lordships Stud is set on a picturesque 20 hectare site. The stud is currently standing two Fell stallions on a permanent basis. During the course of the breeding season the stud has a variety of competition stallions visiting on a regular basis. The yard houses approximately 40 animals at any one time. This includes a range of mares from native pony breeds to German and Dutch bred competition horses and eventers, with an equally diverse population of youngstock which are produced by students before being sold.

Its modern facilities provide an excellent backdrop for student training and the production of quality competition horses. Students are involved in all aspects of stud management and young horse production, from conception to sale. Specialist facilities at the stud include modern veterinary examination and semen collection areas, semen analysis laboratory, ménage, indoor school and foaling boxes with CCTV which can be accessed by students via a website. The stud's latest addition to its facilities is a brand new "Computer Aided Sperm Analysis" system which is the first of its type in the country.

Both enterprises are used as an integral part of the teaching at Writtle. They provide valuable practical training for students on all Equine courses, facilities for grassland management teaching, youngstock training and production, the sites also record a wide range of realistic enterprise management data used by students studying business management modules via Stablemate database systems. The equine units are well resourced and are regularly used for the purpose of research

into a wide range of areas both by undergraduate and postgraduate students, and outside commercial organisations such as pharmaceutical and feed companies, bedding manufacturers and stable equipment suppliers.

Animal Resources

Lordship Science Centre

All the animal science and animal management courses involve significant study of anatomy, physiology, nutrition, health and breeding, which means that many classes will take place in one of the specialised laboratories at the Lordship Science Centre. Studies are carried out using a variety of different examination and investigative methods, ranging from the use of fresh or preserved slide material to more specialised analysis techniques, especially in the case of degree students carrying out research for their dissertations.

Animal Care Unit

The Animal Care Unit houses traditional companion species such as rabbits, guinea pigs and rodents, as well as more exotic animals including snakes, water dragons and geckos. The unit also accommodates yard animals such as goats, sheep, geese and ducks, making it an ideal facility for learning how to handle different animal species. Once students are confident in their animal husbandry abilities, study at the unit becomes more specialised, focusing on the applied aspects of animal management, for example, housing and nutrition.

The College Farm

Farm livestock are a major sector within the animal industry. Practical classes at the College farm give students first-hand experience of cattle, sheep and pigs, while those interested in poultry will have access to a commercial unit off-site. The farm animals are also used extensively for undergraduate research projects on topics like health and welfare and animal behaviour.

Conservation Areas

The interaction of the animal (both wild and domestic) with its environment and species conservation are important components of all the animal science/management courses at Writtle College. Specific modules make good practical use of the many conservation areas found across the College estate, where students can observe examples of good practice and have the opportunity to study wild animals in their natural habitat.

To find out more about the Undergraduate Animal Courses at Writtle College, please contact:

Sife Chikunya
Animal Admissions Tutor
Tel: **+44 (0)1245 424200**
Email: **animal@writtle.ac.uk**

Centre for Equine and Animal Science (CEQAS)

One of the Centres of Innovation at Writtle College, CEQAS is developing a research and consultancy portfolio to capitalise on the expertise of academic staff and enrich the learning environment of students. The activities of CEQAS feed directly into the curriculum and have provided numerous opportunities for students to complete assignments, case studies and dissertations based on ongoing work.

The work of CEQAS focuses around six themes: Fertility and Reproductive Performance, Animal Health and Nutrition, Behaviour and Welfare, Industry and Enterprise Development, Complementary Therapies and Ethnoveterinary Medicine, and Equestrian Sports Performance. Current research and consultancy work includes the causes, detection and prevention of lameness in dairy cows, evaluation of semen quality, biomechanical dysfunction and treatment in horses and evaluation of equine sports performance. CEQAS staff have presented papers and keynote addresses at numerous national and international conferences.



Postgraduate

This School offers a number of postgraduate taught and research opportunities. The following courses are available at Postgraduate level:

MSc Equine Science
MSc Animal Biology and Welfare
MSc Animal Production and Nutrition
MSc by Dissertation

For further information, visit:

www.writtle.ac.uk



Award Options

Behaviour and Nutrition

This option will allow students to study modules in Behaviour, Equine Performance Nutrition, Equine Feed Technology and Applied Behaviour and Welfare which will give them a sound understanding of their chosen subject area.

Breeding and Reproduction

Students can specialise in Breeding and Reproduction by studying modules in Reproduction and Genetics, Equine Health Management, Equine Breeding Systems and issues facing the stud industry.

Physical Therapy

This option allows students to study modules in an Introduction to Physical Therapy, Rehabilitation and Performance, Complementary Therapies and Equine Sports Medicine which will give them an in-depth knowledge of the latest advances in the field.

Sports Horse Performance

This option allows students to study modules in Exercise Physiology, Equine Health Management, Biomechanics and Equine Structural Development which will give them a sound understanding of their chosen subject area and an in-depth knowledge of the latest advances in the field.

Behaviour and Welfare

Students will specialise in Behaviour and Welfare by studying modules in Behaviour, Animal Health and Welfare, Bioethics and Applied Behaviour and Welfare.

Equitation and Coaching

Students will specialise in Equitation and Coaching through studying modules in Young Stock Production, Reflective Coaching, Rider Fitness and Performance and Advanced Equitation or Analysis of the Performer.

Companion and Zoo Animals

This option is designed to give students the opportunity to study the Principles of Management of Companion Animals and Animals Kept in Collections. Companion and Zoo Animals have specific requirements regarding their environment, nutrition, health and behaviour.

Equine Studies

This option allows students to study modules in Animal Management, Exercise Physiology, Equine Health Management, Equine Feed Technology and Equine Structural Development.

Farm Livestock production

This option gives students better understanding of the farming industry and allows students to study an Introduction to Animal Husbandry, Farm Livestock Production and Integrated Livestock Production modules.

Award Options can be studied as part of an Equine and Animal Science degree course, and can also be combined with degree courses from the other Schools (options have been identified on course pages).



GRADUATE PROFILE

Amy Mills

BSc (Hons) Equine Breeding & Stud Management - Lecturer in Equine Breeding & Reproduction

"I had designs on going to another college, but when I visited Writtle I knew it was where I would be happiest! As well as this the course was just what I wanted to do without compromise. The course allowed me to explore all of the aspects of the industry and gave me renewed enthusiasm."



GRADUATE PROFILE

Stuart Drewrey

BSc (Hons) Animal Science - Veterinary Surgeon

"It's thanks to the academics at Writtle College that I was able to make it onto the Vet course and ultimately get the job I've always wanted. Following on from my Animal Science degree I moved on to Vet School and have just recently qualified as a Vet. It can be very satisfying providing care and treatment for sick and injured animals. Working as a veterinary surgeon offers a great deal of job satisfaction, and a feeling of really making a difference."



BSc (Hons) Equine Studies

This course is designed to develop strong scientific and technical skills, which may be applied to practical equine situations. It has a strong practical component.

The flexibility of this course comes from the combination of the core subjects with a variety of award options. Further details of these award options can be found on page 56. Please see options listed below:

STAGE ONE		STAGE TWO		STAGE THREE	
Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Sector Studies for the Equine Industry		Academic & Professional Development		Dissertation	
Practical skills Module A	Practical skills Module B	Equitation & Coaching OR Young Stock Production	Training & Equestrian Enterprise Management OR Applied Stud Management	Rider Fitness & Performance	Advanced Equitation OR Analysis of the Performer
Applied Equine Management		Applied Equine Technology	Grassland Science & Production	Equine Computer Applications	Computer Aided Design
Award Options					

Practical Skills Modules

A = choice between: Combined Practical Skills A, Stud Practical Skills A, and Equitation Practical Skills A
B = choice between: Combined Practical Skills B, Stud Practical Skills B, and Equitation Practical Skills B
Any students taking practical skills will be expected to do yard duties.

BSc (Hons) Equine Studies (Breeding and Reproduction)*

Mammalian Anatomy & Physiology	Equine Nutrition	Reproduction & Genetics	Equine Health Management	Equine Breeding Systems	Issues Facing the Stud Industry
--------------------------------	------------------	-------------------------	--------------------------	-------------------------	---------------------------------

BSc (Hons) Equine Studies (Behaviour and Nutrition)

Mammalian Anatomy & Physiology	Equine Nutrition	Behaviour	Equine Performance Nutrition	Equine Feed Technology	Applied Behaviour and Welfare
--------------------------------	------------------	-----------	------------------------------	------------------------	-------------------------------

BSc (Hons) Equine Studies (Physical Therapy)

Mammalian Anatomy & Physiology	Equine Nutrition	Introduction to Physical Therapy	Rehabilitation and Performance	Complementary Therapies	Complementary Therapy Equine Sports Medicine
--------------------------------	------------------	----------------------------------	--------------------------------	-------------------------	--

*subject to approval

BSc (Hons) Equine Studies (Sports Horse Performance)

Mammalian Anatomy & Physiology	Equine Nutrition	Exercise Physiology	Equine Health Management	Biomechanics	Equine Structural Development
--------------------------------	------------------	---------------------	--------------------------	--------------	-------------------------------

BSc (Hons) Equine Studies with Event Management

History and Principles of Event Management	Planning and Running an Event	Types of Event and Contemporary Issues within the Events Industry
--	-------------------------------	---

FdSc Equine Studies

This is a two year course designed for students who plan to work in the equine industry in a 'hands-on' manner, having a strong emphasis on applied horse handling skills in either a stud or equitation-based environment.

The flexibility of this course comes from the combination of the core subjects with a variety of award options. Further details of these award options can be found on page 56. Please see options listed below:

STAGE ONE		STAGE TWO	
Semester 1	Semester 2	Semester 3	Semester 4
Sector Studies for the Equine Industry		Foundation Degree Academic & Professional Development	
Applied Equine Management		Applied Equine Technology	Grassland Science & Production
Award Options			
Learning Through Work		Learning From Work	

FdSc Equine Studies (Behaviour and Nutrition)

Mammalian Anatomy & Physiology	Equine Nutrition	Exercise Physiology	Applied Stud Management
--------------------------------	------------------	---------------------	-------------------------

FdSc Equine Studies (Physical Therapy)

Mammalian Anatomy & Physiology	Equine Nutrition	Introduction to Physical Therapy	Rehabilitation and Performance
--------------------------------	------------------	----------------------------------	--------------------------------

FdSc Equine Studies (Breeding and Reproduction)*

Mammalian Anatomy & Physiology	Equine Nutrition	Reproduction & Genetics	Equine Health Management
--------------------------------	------------------	-------------------------	--------------------------

*subject to approval

FdSc Equine Studies (Sports Horse Performance)

Mammalian Anatomy & Physiology	Equine Nutrition	Exercise Physiology	Equine Health Management
--------------------------------	------------------	---------------------	--------------------------

Higher Certificate Equine Studies

A one year course for students who are not sure if they wish to study to degree level. It is a recognised qualification which also offers students the possibility to progress into Stage 2 of the FdSc in Equine Studies. The Content for this Certificate is the same as the BSc (Hons) Equine Studies Stage One.

BSc (Hons) Equine Studies and Business Management

This course combines the scientific, technical and commercial aspects of horse management with the development of practical equestrian skills in year one. Transferable business skills and commercial awareness are developed throughout the entire course allowing career progression both within the horse industry and also the wider business environment.

STAGE ONE		STAGE TWO		STAGE THREE	
Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Sector Studies for the Equine Industry		Academic & Professional Development		Dissertation	
Mammalian Anatomy & Physiology	Equine Nutrition	Exercise Physiology	Equine Health Management	Current Issues in the Equine Industry	
Practical Skills A	Practical Skills B	Applied Equine Technology	Grassland Science & Production	Equine Computer Applications	Computer Aided Design
Essential Business		Management Concepts & Practice		Applied Business	

Practical Skills Modules

A = choice between: Combined Practical Skills A, Stud Practical Skills A, Equitation Practical Skills A, and Equine Practical Skills A

B = choice between: Combined Practical Skills B, Stud Practical Skills B, Equitation Practical Skills B, and Equine Practical Skills B.

Any students taking practical skills will be expected to do yard duties.

BSc (Hons) Equine Science

The course includes a wide range of modules which aim to develop a broad understanding of the athletic horse, its production and management and other related areas.

The flexibility of this course comes from the combination of the core subjects with a variety of award options. Further details of these award options can be found on page 56.

Please see options listed below:

STAGE ONE		STAGE TWO		STAGE THREE	
Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Sector Studies for the Equine Industry		Academic & Professional Development		Dissertation	
Mammalian Anatomy & Physiology	Introduction to Biomechanics	Exercise Physiology	Equine Health Management	Biomechanics	Equine Structural Development
Biological Processes	Equine Nutrition	Introduction to Physical Therapy	Equine Performance Nutrition	Equine Feed Technology	Equine Sport Medicine
Award Options					

BSc (Hons) Equine Science (Breeding and Reproduction)*

Mammalian Anatomy & Physiology	Equine Nutrition	Reproduction & Genetics	Equine Reproductive Physiology	Equine Breeding Systems	Issues Facing the Stud Industry
--------------------------------	------------------	-------------------------	--------------------------------	-------------------------	---------------------------------

*subject to approval

BSc (Hons) Equine Science (Behaviour and Welfare)

Equine Practical Skills A	Equine Practical Skills B	Behaviour	Animal Health and Welfare	Bioethics	Applied Behaviour & Welfare
---------------------------	---------------------------	-----------	---------------------------	-----------	-----------------------------

BSc (Hons) Equine Science (Equitation and Coaching)

Equine Practical Skills A	Equine Practical Skills B	Young Stock Production	Reflective Coaching	Rider Fitness & Performance	Advanced Equitation Or Analysis of the Performer
---------------------------	---------------------------	------------------------	---------------------	-----------------------------	--

BSc (Hons) Equine Science (Health and Exercise)

Contemporary Issues in Sport & Exercise	Special Populations	Fitness & Performance Testing	Principles of Training	Disability in Sport & Recreation	Exercise Prescription
---	---------------------	-------------------------------	------------------------	----------------------------------	-----------------------

FdSc Equine Science

This is a two year course designed for students who plan to work in the equine industry and who need a knowledge of the underpinning science in the context of its application in the different sectors of the equine industry.

STAGE ONE		STAGE TWO	
Semester 1	Semester 2	Semester 3	Semester 4
Sector Studies for the Equine Industry		Foundation Degree Academic & Professional Development	
Mammalian Anatomy & Physiology	Introduction to Biomechanics	Introduction to Physical Therapy	Equine Performance Nutrition
Biological Processes	Equine Nutrition	Reproduction & Genetics	Equine Health Management
Learning Through Work		Learning From Work	

BSc (Hons) Equine Breeding and Stud Management

This unique course enables students to combine theoretical and scientific aspects of stud management with the development of vital practical skills in the handling of a wide range of breeding and youngstock. Students will make extensive use of the excellent Lordships Stud resource at the College throughout their course. In addition, visits to a wide variety of sales venues and working studs will be incorporated into the teaching programme and visiting speakers from industry will deliver specialist lectures.

STAGE ONE		STAGE TWO		STAGE THREE	
Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Sector Studies for the Equine Industry		Academic & Professional Development		Dissertation	
Mammalian Anatomy & Physiology	Functional Anatomy	Exercise Physiology	Equine Health Management	Complementary Therapies OR Biomechanics	Equine Sports Medicine
Biological Processes	Equine Nutrition	Reproduction & Genetics	Applied Stud Management	Equine Breeding Systems	Issues Facing the Stud Industry
Stud Practical Skills A	Stud Practical Skills B	Young Stock Production	Grassland Science & Production	Equine Computer Applications	Equine Structural Development

BSc (Hons) Human and Equine Sports Performance

The course will prepare students for a career within the human or equine sports industry. The scheme will enable students to investigate sports performance combining both the human and equine athlete. Students will cover a broad range of topics which will allow them to gain an understanding of all aspects of sports performance focusing on the human-equine combination.

STAGE ONE		STAGE TWO		STAGE THREE	
Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Sector Studies for the Equine Industry		Academic & Professional Development		Dissertation	
Mammalian Anatomy & Physiology	Equine Nutrition	Sports Nutrition	Equine Performance Nutrition	Rider Fitness & Performance	Equine Sports Medicine
Performance Technology	Introduction to Biomechanics	Exercise Physiology	Equine Health Management	Biomechanics	Analysis of the Performer
Introduction to Psychology	Coaching in Practice	Sports Injury	Reflective Coaching	Applied Sports & Exercise Psychology	Complementary Therapies OR Sociology of Sport



BSc (Hons) Equine Sports Therapy

This unique programme enables the student to leave the College with an academic award and a professional qualification that will allow graduates to specialise in equine sports massage. Students will develop their knowledge of physical therapy in the equine industry, thus helping them to develop an understanding of the relationship between structure, function and injury prevention.

Students will have the option to obtain the Equine Bodyworker (EBW) Sports Massage Certificate which is an internationally recognised professional qualification. The College will make a contribution towards the cost of the Equine Bodyworker course and students will pay the remainder. Full costs of the course can be found on

www.equinenergy.com

The flexibility of this course comes from the combination of the core subjects with a variety of award options. Further details of these award options can be found on page 56. Please see options listed below:

STAGE ONE		STAGE TWO		STAGE THREE	
Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Sector Studies for the Equine Industry		Academic & Professional Development		Dissertation	
Mammalian Anatomy & Physiology	Functional Anatomy	Introduction to Physical Therapy	Equine Health Management	Equine Massage Externship	Complementary Therapies
Saddle Fitting & Farriery	Introduction to Biomechanics	Exercise Physiology	Rehabilitation & Performance	Biomechanics	Equine Sports Medicine
Award Options					

Nutrition And Behaviour

Practical Skills A	Equine Nutrition	Behaviour	Equine Performance Nutrition	Equine Feed Technology	Applied Behaviour & Welfare
--------------------	------------------	-----------	------------------------------	------------------------	-----------------------------

Equitation And Coaching

Practical Skills A	Equine Nutrition	Young Stock Production	Training & Equestrian Enterprise Management	Rider Fitness & Performance	Advanced Equitation OR Analysis of the Performer
--------------------	------------------	------------------------	---	-----------------------------	--

BSc (Hons) Animal Management

These husbandry based degree programmes allow students to develop a sound understanding and in-depth knowledge of the essential principles of animal management relevant to the needs of the animal sector.

The flexibility of this course comes from the combination of the core subjects with a variety of award options. Further details of the Companion and Zoo Animals and Equine Studies awards can be found on page 56. Other award options can be found on page 86. Please see options listed below:

STAGE ONE		STAGE TWO		STAGE THREE	
Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Sector Studies for the Animal Industry		Academic & Professional Development		Dissertation	
Mammalian Anatomy & Physiology	Comparative Anatomy & Physiology	Reproduction & Genetics	Principles of Nutrition	Animal Management Case Study & Consultancy Project	
Biological Processes	Animals in Society	Behaviour	Animal Health & Welfare	Applied Health Management	Applied Behaviour & Welfare
Animal Management		Bioethics	Animal Trade	Applied Nutrition	Breeding Strategies

BSc (Hons) Animal Management (Companion and Zoo Animals)

Animal Management	Applied Animal Management	Animal Trade	Companion & Zoo Animal Nutrition & Feeding	Current Issues in Companion & Zoo Animals
-------------------	---------------------------	--------------	--	---

BSc (Hons) Animal Management (Equine Studies)

Animal Management	Exercise Physiology	Equine Health Management	Equine Feed Technology	Equine Structural Development
-------------------	---------------------	--------------------------	------------------------	-------------------------------

BSc (Hons) Animal Management with Business Management

Essential Business	Management Concepts & Practice	Applied Business
--------------------	--------------------------------	------------------

BSc (Hons) Animal Management with Event Management

History & Principles of Event Management	Planning & Running an Event	Types of Events & Contemporary Issues within the Events Industry
--	-----------------------------	--

BSc (Hons) Animal Management with Wildlife Conservation

Principles & Practice of Ecology	Principles of Habitat Management	Conservation & Biodiversity
----------------------------------	----------------------------------	-----------------------------

BSc (Hons) Animal Management with Biological Surveying

Principles & Practice of Ecology	Biological Surveying	Habitat Evaluation & Management Planning
----------------------------------	----------------------	--

BSc (Hons) Animal Management with Conservation Management

Landscapes & Ecosystems	Principles of Habitat Management	Climate Change & Biodiversity	Protected Area Management
-------------------------	----------------------------------	-------------------------------	---------------------------

BSc (Hons) Animal Management with Farm Livestock Production

Introduction to Animal Husbandry	Farm Livestock Production	Integrated Livestock Production
----------------------------------	---------------------------	---------------------------------

FdSc Animal Management

This is a two year course designed to produce graduates who have the knowledge and applied management skills necessary to effectively manage animal collections. Students will develop their own thinking and the ability to communicate their beliefs and opinions and will be capable of integrating academic knowledge and work-based learning. They will be equipped with the technical understanding and skills to adapt to a changing working place.

STAGE ONE		STAGE TWO	
Semester 1	Semester 2	Semester 3	Semester 4
Sector Studies for the Animal Industry		Foundation Degree Academic & Professional Development	
Mammalian Anatomy & Physiology	Comparative Anatomy & Physiology	Reproduction & Genetics	Principles of Nutrition
Animal Management		Behaviour	Animal Health & Welfare
Learning Through Work		Learning From Work	

BSc (Hons) Animal Science

These science based degree programmes allow students to develop a sound understanding and in-depth knowledge of the essential principles of animal science relevant to the needs of the animal sector. These degrees encourage students to develop and demonstrate appropriate intellectual and research skills.

The flexibility of this course comes from the combination of the core subjects with a variety of minor awards. Further details of the Companion and Zoo Animals and Equine Studies awards can be found on page 56. Other award options can be found on page 86. Please see options listed below:

STAGE ONE		STAGE TWO		STAGE THREE	
Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Sector Studies for the Animal Industry		Academic & Professional Development		Dissertation	
Mammalian Anatomy & Physiology	Comparative Anatomy & Physiology	Reproduction & Genetics	Principles of Nutrition	Animal Growth, Development & Biotechnology	
Biological Processes	Introduction to Biochemistry	Behaviour	Animal Health & Disease	Recent Advances in Animal Science	
Animal Management		Bioethics	Animal Trade	Applied Nutrition	Applied Behaviour & Welfare

BSc (Hons) Animal Science (Companion and Zoo Animals)

Animal Management	Applied Animal Management	Animal Trade	Companion and Zoo Animal Nutrition & Feeding	Current Issues in Companion & Zoo Animals
-------------------	---------------------------	--------------	--	---

BSc (Hons) Animal Science (Equine Studies)

Animal Management	Exercise Physiology	Equine Health Management	Equine Feed Technology	Equine Structural Development
-------------------	---------------------	--------------------------	------------------------	-------------------------------

BSc (Hons) Animal Science with Biological Surveying

Principles & Practice of Ecology	Biological Surveying	Habitat Evaluation & Management Planning
----------------------------------	----------------------	--

BSc (Hons) Animal Science with Conservation Management

Landscapes & Ecosystems	Principles of Habitat Management	Climate Change & Biodiversity	Protected Area Management
-------------------------	----------------------------------	-------------------------------	---------------------------

BSc (Hons) Animal Science with Wildlife Conservation

Principles & Practice of Ecology	Principles of Habitat Management	Conservation & Biodiversity
----------------------------------	----------------------------------	-----------------------------

BSc (Hons) Animal Science with Ecology

Principles & Practice of Ecology	Landscape Ecology & Assessment	Biodiversity & Conservation
----------------------------------	--------------------------------	-----------------------------

BSc (Hons) Animal Science with Farm Livestock Production

Introduction to Animal Husbandry	Farm Livestock Production	Integrated Livestock Production
----------------------------------	---------------------------	---------------------------------

FdSc Animal Science

This course aims to produce graduates who have developed interests in and knowledge of aspects of animal science, are conversant with the care of animals and have the ability to apply scientific principles and concepts of animal management and production.

STAGE ONE		STAGE TWO	
Semester 1	Semester 2	Semester 3	Semester 4
Sector Studies for the Equine Industry		Foundation Degree Academic & Professional Development	
Mammalian Anatomy & Physiology	Comparative Anatomy & Physiology	Reproduction & Genetics	Principles of Nutrition
Biological Processes	Introduction to Biochemistry	Behaviour	Animal Health & Disease
Learning Through Work		Learning From Work	

Higher Certificate Animal Studies

A one year course for students who are not sure if they wish to study to degree level. It is a recognised qualification which also offers students the possibility to progress onto an Honour degree programme.



Sports and Exercise Performance

The Sports and Exercise Performance degrees at Writtle College combine essential theory with plenty of practical experience in coaching and participation.

Sports and Exercise performance programmes are aimed at those who wish to pursue a more directed practical approach to the study of sport and exercise and the science involved in participation at all levels - from recreational through to elite and from those in good health through to those with specific medical conditions. It combines academic theory with a strong practical approach to the science of coaching and performing.

The field of sport and exercise performance is a rapidly growing area with organisations looking for candidates with a high level of academic qualifications, as well as valid practical experience. Many of our graduates go on to train as P.E. Teachers. With the 2012 Olympics being held in London, it is likely that there will be an increase in demand for graduates in this area.

The course provides students with the opportunity to complete National Governing Body coaching qualifications, Sports Coach UK awards, a recognized gym instructor's qualification and the Higher Sports Leader award. Students are also encouraged to gain experience in the workplace with many undertaking voluntary work in schools, sports clubs and teams.

Resources

Sports facilities at the College include a Recreation Centre and gym, tennis courts, multi-use sports fields, outdoor pitches for a range of sports including 5-a-side and netball, horse riding trails and a climbing wall. The Lordships Science Centre includes video analysis equipment and software, a range of fitness and performance testing equipment, health screening tools, heart rate monitors and gas analysis.

The campus is a short bus ride from the centre of Chelmsford which has an active leisure programme and first rate facilities including Melbourne Athletics Centre, Riverside Ice and Leisure Centre and is the home of Essex County Cricket Club.



GRADUATE PROFILE

Kathryn Cooper

BSc (Hons) Sports and Exercise Performance

"The course benefited me in gaining experience and knowledge in sports therapy. I learned about sports injury assessment, massage, treatment and management of sports injury. In my profession I enjoy seeing the different injuries and dealing with sports rehab, not doing the same thing day in day out keeps me attentive."



BSc (Hons) Sports and Exercise Performance

The course develops knowledge of the principles of sports and exercise performance and the science underpinning coaching. Students gain the associated practical experience and skills required for work within the sports and exercise industry. The flexibility of this course comes from the combination of the core subjects with a variety of award options. Further details of these award options can be found on page 86. Please see options listed below:

STAGE ONE		STAGE TWO		STAGE THREE	
Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Sector Studies for the Sports Industry		Academic & Professional Development		Dissertation	
Mammalian Anatomy & Physiology	Introduction to Biomechanics	Sports Nutrition	Introduction to Exercise Physiology	Applied Exercise Physiology	Sports Medicine & Rehabilitation
Introduction to Psychology	Coaching in Practice	Sports Injury	Reflective Coaching	Applied Sports & Exercise Psychology	Analysis of the Performer
Contemporary Issues in Sport & Exercise	Special Populations	Fitness & Performance Testing	Principles of Training	Disability in Sport & Recreation	Exercise Prescription

BSc (Hons) Sports and Exercise Performance with Business Management

Essential Business	Management Concepts & Practice	Applied Business
--------------------	--------------------------------	------------------

BSc (Hons) Sports and Exercise Performance with Event Management

History & Principles of Event Management	Planning & Running an Event	Types of Events & Contemporary Issues within the Events Industry
--	-----------------------------	--

For course listings and UCAS requirements see page 106
Please see the College website for further details on all courses.

FdSc Sports and Exercise Performance

This two year vocationally orientated qualification provides students with the practical experience and skills required for work within the sports and exercise industry. A substantial proportion of the student's learning is based within the workplace where they are able to develop and apply their knowledge and skills.

STAGE ONE		STAGE TWO	
Semester 1	Semester 2	Semester 3	Semester 4
Sector Studies for the Sports Industry		Foundation Degree Academic & Professional Development	
Mammalian Anatomy & Physiology	Introduction to Biomechanics	Sports Nutrition	Introduction to Exercise Physiology
Introduction to Sports Psychology	Coaching in Practice	Sports Injury	Reflective Coaching
Learning Through Work		Learning From Work	

