

Applied Equine Science

MSc, Postgraduate Diploma

Apply theory to practice on a campus equipped with world-class equestrian facilities, including competition arenas, equine therapy and rider performance centres, as well as over 200 horses and riders of all levels.

This MSc Applied Equine Science degree provides the ideal opportunity for you to advance your existing expertise within the field of applied equestrian science.

[Apply now](#) [Visit us](#)

Enrolment year: 2024

[Enrolment year: 2025](#)

Key Information

Course Duration: 1 year full-time; part-time options available

Part or Full Time: Full Time / Part Time

Level of Study: Master's and PhDs

Typical Offer: 2:1 honours degree (2:2 applicants considered individually)

Course information

Overview Entry requirements Employability How you'll study

You'll build on previous knowledge and skills, studying a diverse range of industry-informed modules that have been designed to give you specialist understanding of the interaction of science with real-world equine practice.

Key to the course is developing your understanding of new technology in the field, with opportunities to utilise our state-of-the-art equipment, including thermography, gait analysis and electromyography. Data collection and measurement through your modules and thesis will enable you to uncover new knowledge in line with your own interests and industry needs.

You'll be encouraged to attend and present at industry conferences to develop your academic and industry networks, including at our own annual Alltech-Hartpury Student Research Conference.

Academic

2:1 honours degree in a relevant subject. Students with 2:2 and relevant experience will be considered on a case by case basis.

Non-academic

Students with non-relevant qualifications but with sufficient work experience or professional experience will be considered on an individual basis.

International

In addition to the academic qualification an IELTS 6.5 or equivalent is required.

Please contact us for further information.

Email us

Your career

Industry opportunities on this course largely come from our own businesses on campus (see facilities tab), as well as the networking facilitated through guest lecturers and field trips.

On-campus opportunities

Our commercial equine therapy and performance centres offer opportunities for students to gain industry experience to support their careers. With teams made up of expert personnel alongside volunteers, you could have the opportunity to get hands-on with clinical cases and to network with the range of allied professionals that involved in the rehabilitation and management of the horses, including veterinarians, farriers, nutritionists and more.

Furthermore, opportunities exist to gain valuable industry experience by volunteering at the national and international level events hosted by our Equine Centre. These include the Five Star Hartpury Horse Trials and the Hartpury International Festival of Dressage.

Find out more about our commercial equine activities below.

[Find out more about our commercial equine activities.](#)

Field trips and guest lecturers

Field trips and industry professionals in lectures form an important part of your learning, enabling you to experience different businesses, careers and best practices.

Recent field trips have included visits to places such as Redwings Horse Sanctuary, Tweenhills Farm and Stud, and Kingswood Stud, home of the Kurtsystem. The trips facilitate both industry networking and the opportunity to experience the application of science in practice with those using it on a daily basis.

Guest lecturers are selected to extend your learning and professional networks, recently including physical therapists, veterinary surgeons, research scientists in reproductive immunology, artificial Insemination technicians and performance coaches.

Graduate destinations

Whether you have already defined your career goals or you're keen to explore your options, these programmes provide opportunities to develop both the specialist and transferable skills needed for a range of graduate careers. Our teaching staff, professionals on campus and careers team are available to provide expert advice and guidance, as required.

Recent graduate destinations have included:

- Animal Health Technician, Equine Hospital
- Research Ethics Officer, University Hospital
- Nutritional Advisor, Saracen Horse Feeds
- Marketing Executive, Animal feed manufacturer
- University lecturer
- Equine Events Coordinator, Hartpury Equestrian

Success Stories

We're committed to supporting you to fulfil your unique potential while you're here so that you can achieve your personal and professional goals.

Duration

One year, full-time

You can study each of these qualifications full-time and subsequently complete each within one year.

Two-three years, part-time

Alternatively, we offer flexible part-time options to help students to manage their studies alongside other commitments. These options can be tailored to suit your own needs, enabling you to complete your qualification in two or three years. Please enquire for further details.

Your support network

You'll benefit from a strong support network from day one. This will range from your lecturers, supervisors and personal tutor to our specialist academic (Achievement and Success Centre), employability (Innovation, Careers and Enterprise) and wellbeing teams.

Our academic support teams run regular workshops, alongside offering one-to-one sessions, which can be attended on campus or virtually. Alongside this, you'll find a comprehensive bank of online study skills resources to help you make the most of your qualification.

Your learning experiences

You'll experience a range of teaching methods to strengthen your understanding of topics, including lectures, workshops and practical sessions.

Qualifications and modules

MSc degree Postgraduate Diploma Modules Compulsory modules Optional modules

The full master's degree covers a core range of applied biological science-based topics. Subject areas include pathologies that impact performance management, research-informed practice within clinical rehabilitation, and the impact of management on equine cognition and behaviour.

The compulsory modules within the course are aimed at supporting you to develop core foundations of equine science, whilst many also allow you to tailor your assessment to your specific areas of interest or career goals. The optional modules enable you to draw stronger focus on areas of particular personal interest.

The postgraduate dissertation exemplifies this, as you're able to design, undertake and report on an independent piece of research, in line with your interests or goals, with support from specialist staff.

Regardless of your choice of modules, the course will increase your understanding of the way science can improve current practice to maximise performance, extend career length or aid performance horse selection, with a core goal being to optimise the horse's welfare.

These qualifications form part of and are at the same level as the full master's degree. They provide the ideal opportunity for you to develop your professional expertise via shorter part-time qualifications to fit around commitments, whilst allowing flexibility to progress each qualification through to the next level including the full master's degree.

The Postgraduate Diploma form part of and is at the same level as the full master's degree. It provides an ideal opportunity to develop your professional expertise via a shorter qualification to fit around commitments, whilst allowing flexibility to progress through to the full master's degree.

The Postgraduate Diploma includes compulsory and optional modules around a range of applied topics and equates to approximately two-thirds of the master's degree.

Explore the compulsory and optional module indicators for the full MSc degree.

Students on the Postgraduate Certificate and Postgraduate Diploma courses will be able to select from both compulsory and optional modules in line with interests and career goals.

Module credits

The courses are delivered across three trimesters and both include a mixture of compulsory and optional modules.

Upon successful completion of your modules you'll gain academic credit that accumulates towards your award. The marks you gain may contribute towards your final qualification differential award (pass, merit or distinction).

The course is taught in English.

The Research Process

Optional for PG Dip.

Discuss research methodologies and applications, as well as strengths, weaknesses, and limitations of different methods.

Investigating Equestrian Research

Gain exposure to, and analysis of, research across a wide range of topics within the field of equine science including seminar and conference attendance.

Equine Management for Optimal Performance and Welfare

This module aims to provide students with the knowledge and evaluative skills to debate the ethics and practicalities surrounding management of the horse within a range of societal pressures and the wider social responsibilities of the industry.

Developing a Sustainable Equine Industry

This module aims to provide students with the knowledge and analytical skills to critically examine the ethics and the sustainability of practices within the global equine industry in relation to a variety of stakeholders.

Postgraduate Dissertation (MSc only)

Develop and implement a research project of your choosing. You'll be allocated an individual supervisor to guide and support you to undertake this innovative independent piece of research.

Postgraduate Independent Study

You will be supported to produce a critical literature review in an area of personal interest.

Rider Performance

Explore the physiological and biomechanical demands of the rider across different disciplines and how the rider adapts and modifies to harmonise with the horse.

Applied Equine Exercise Physiology

This module allows students to explore the fundamentals of equine exercise physiology in the context of different equestrian disciplines and their application to training.

Therapy and Rehabilitation of the Equine Athlete

Evaluate the practical techniques used within therapeutic care of the sports horse.

Equine Behaviour

This module introduces you to natural and domestic behavioural patterns of the horse, covering, amongst other topics, learning theory in relation to training and management.

Advances in Equestrian Biomechanics

The application and assessment of biomechanical principles to equestrian athletic performance.

Teaching modes

The modules contain a mixture of scheduled learning – lectures, workshops and practical sessions – alongside independent learning. Students are expected to dedicate at least two to three hours of independent study per contact hour. The following breakdowns may vary, depending on module choices.

	Contact learning	Placement learning	Independent learning
MSc degree	13%	0%	87%
Postgraduate Diploma	18%	0%	82%

Teaching contact time

Teaching contact time and method will vary depending on the module that you are studying.

Meetings and tutorials with academic staff can take place either face-to-face on campus, by phone or online.

Assessment and Feedback

You'll be assessed through a mixture of written exams, oral exams and presentations, and written assessments. Many of the modules will be marked based on a mixture of assessment types, whilst others will be based solely on one type of assessment.

Feedback will be provided to you throughout the course both formatively, with staff feeding back on draft work or in subject discussions, or summatively, provided by the staff commentary accompanying marked assessments.

The following breakdowns may vary, depending on module choices.

	Written exam	Practical exam	Coursework
MSc degree	17%	19%	64%
Postgraduate Diploma	25%	16%	59%

Assessment will vary depending on the optional modules you choose.

Timetables

The full-time master's programme is delivered over three 12-week trimesters, normally consisting of four of five scheduled teaching blocks and assessment weeks, delivered at set times, depending on your module selection. Part-time options vary - please enquire. Overview below:

- Scheduled teaching generally takes place across block weekends (Friday – Sunday)
- Delivery on the teaching weekends is normally scheduled between 9.00am – 5.00pm
- Part-time students typically study for fewer block weekends across an academic year
- Attendance dates and timetables are available before enrolment to support the arrangement of annual leave where required

View term dates

Fees and funding

Please visit our [student finance page](#) for information on tuition fees and student loans, as well as non-repayable grants, bursaries and scholarships, eligible to different groups, to support with study costs.

Clothing and footwear (circa £100)

A number of modules require clothing and footwear suitable to wear on the yard, eg. long trousers and boots.

Hartpury University branded clothing is also available through our online shop, for those who wish to purchase it. However, this is not essential.

Optional field trips

Field trips are generally included in the course fees. However, extra costs may be required for specific optional trips.

Livery

We have stabling for 230 horses on campus. If you're interested in having your horse at Hartpury on DIY livery while you study, please [visit our livery page for details and costs](#).

Equine Academy

If you have the talent and drive to develop your skills as an equestrian athlete alongside your studies, you may be eligible to join our Equine Academy. For further details including costs, please [visit our Equine Academy page](#).

Accommodation and living costs

Please [visit our student accommodation page](#) for details.

Further course details

For further details about this course, including the programme specification and module descriptions, please visit our document library.

Resource library

Book an appointment

Discuss this course with an Academic Programme Manager

Prospective students can book an online appointment with one of our programme managers to discuss our courses and options for postgraduate study at Hartpury University.

[Find out more](#)

Fees & Funding

It's a good idea to think about fees and funding around your course as early as you can. We can help you to understand and take control of your finances. Here's everything you need to know at a glance.

Facilities

Our specialist facilities match our specialist nature. Students benefit from access to some of the most advanced facilities in the world at an educational institution.

Visit us

Find out more about our courses, professional learning environments and commercial industry connections. Learn about our world-class facilities and speak with our academic teams about how our qualifications could help to change or progress your career.

Top 20

We're a top 20 UK university for postgraduate teaching, engagement, assessment, organisation and support (PTES 2023).

World leading

Our research has been recognised as 'world-leading' and 'internationally excellent' (Research Excellence Framework 2021).

World-class equine facilities

Benefit from multi-million-pound equine facilities, used by world-class riders and horses from across the globe.

From research opportunities in our rider performance and hydrotherapy centres, to client-facing positions in our commercial therapy centre, you'll develop professional skills for the future.