



UNIVERSITY OF
LIVERPOOL

Veterinary
Postgraduate
Unit

STUDENT HANDBOOK

2024/25 INTAKE



**Postgraduate Diploma/Master's in
Veterinary Physiotherapy**

WELCOME FROM THE PROGRAMME DIRECTOR

As the Director of the Veterinary Physiotherapy Programme at the University of Liverpool, I am very pleased to present our provision of our blended programme for the PgDip/MSc in Veterinary Physiotherapy. We have an excellent team of experienced academic staff, both physiotherapists and veterinarians coupled with a large external network of physiotherapy educators. We are supported by an excellent team of administrative staff who pride themselves in their excellent support of our students. Blended means some of the delivery of the programme is online and some is face to face. We aim to provide a stimulating and interactive programme of modules, clinical educator days, veterinary practice observational placements and core practical workshops with fun, efficient and tailored education coordinated by veterinary physiotherapists and veterinarians, for graduates with a degree in human physiotherapy. Those of you on the MSc programme will enjoy getting involved in research and interacting with your allocated supervisor at the University of Liverpool.

We have an emphasis on bringing together participants into a community of learning and we use both online opportunities as well as our face-to-face opportunities to develop our community with colleagues and mentors. We look forward to seeing you soon!



Em. Professor Catherine McGowan
Programme Director, Veterinary Physiotherapy

PURPOSE OF THE HANDBOOK

This handbook is applicable to anyone studying with us for their PgDip or MSc in Veterinary Physiotherapy programmes. It has been written to provide all the information you need to help you understand how your study is organised, where you can obtain further information and assistance, what you can expect from the unit, and also what we expect from you.

You should read it thoroughly during the early weeks of your programme. If you need to refer back to it at any point you will find a copy within your modules in our virtual learning environment, "Canvas".

The University of Liverpool has a PGT Handbook for all of its PGT programmes which can be found here <https://www.liverpool.ac.uk/student-administration/my-student-record/student-handbooks/>. This handbook has a lot of generic information applicable to students studying PGT across all programme at the University of Liverpool and might be especially useful for those of you who are taking our full-time options and taking the opportunity to study on campus or locally. However, the information in this handbook is specifically for you.

KEY CONTACTS

Director

**Em. Professor Catherine McGowan BVSc
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Clinical Practice Coordinator

**Katie Meredith MCSP HCPC ACPAT RAMP
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Academic Support

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Senior Administrators
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Clinical Educator & Observational Placement Support

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Student support
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Online Module Support

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Core Practical Workshop Support

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Journal Club Support

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Programme Registration and Payment

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INTRODUCTION

Em. Prof Catherine McGowan BVSc CertVBM MANZCVSC DEIM Dip ECEIM PhD Cert VBM FHEA FRCVS

Cathy has been involved in postgraduate Master's level education since 1999 when she developed the Royal Veterinary College Master's and Postgraduate Diploma programs in Veterinary Physiotherapy which commenced in 2000. At the University of Queensland, she developed an online distance education MSc program for physiotherapists and conducted veterinary physiotherapy research. Cathy is a Diplomate of the European College of Equine Internal Medicine and an RCVS recognised specialist in equine internal medicine and is Programme Director of the Veterinary Physiotherapy Programmes at the University of Liverpool. She is also the chief editor of the first and second editions of the textbook 'Animal Physiotherapy'.

THE VETERINARY PHYSIOTHERAPY PROGRAMME

The University of Liverpool has developed the Veterinary Physiotherapy programme to enable qualified human physiotherapists to transfer their physiotherapy skills to the treatment of animal patients. The programme is recognised by the Association of Chartered Physiotherapists in Animal Therapy (ACPAT) as an upgrade route from Category B to A status.

Programme Structure

The 6 module Postgraduate Diploma in Veterinary Physiotherapy can be studied on a part-time basis over 2 years (3 modules per year) or full-time over one year. The 7 module Veterinary Physiotherapy MSc degree can be studied on a part-time basis over 3 years (3 modules in both year 1 and 2, plus the final MSc Research Project in year 3) or full-time over one year.

Whether you are studying for your PgDip or MSc, all modules are taught and assessed at Master's level (Level 7).

Students in all versions of the programme have online taught modules in three 12-week semesters per year, starting semester one early September, semester two early January and semester three at the end of April.

Each module additionally has a practical face to face taught component that varies from five to 20 days, which may fall either within or outside the online module blocks depending on resource and staff availability (see modules below). The research module for MSc students involves a considerable face to face supervisor/research component, the extent of which varies depending on the project.

All modules must be completed in a prescribed order and all modules must be passed (pass mark 50%) in order to achieve the relevant degree award.

The following six modules are required for both the PgDip and MSc:

- **VETS772 Principles of Veterinary Physiotherapy & Approach to the Animal Patient**
5 days Physiotherapy Assessment skills practical
- **VETS775 Neuromotor System in Performance and Disease**
5 days observational placement in a veterinary practice or hospital or the University of Liverpool Veterinary teaching hospitals
- **VETS771 Anatomy & Biomechanics for the Veterinary Physiotherapist**

5 days Anatomy skills practical

- **VETS774 Veterinary Physiotherapy Practice**

10 days Treatment skills practical

- **VETS773 Orthopaedics of the Common Domestic Species for the Veterinary Physiotherapist**

5 days observational placement in a veterinary practice or hospital or the University of Liverpool Veterinary teaching hospitals

- **VETS776 Advanced Veterinary Physiotherapy Practice**

20 days clinical educator training to be undertaken anytime following the Physiotherapy Assessment skills practical training

The MSc in Veterinary Physiotherapy is offered on a part-time or full-time basis, and in order to be awarded the MSc, students must also complete a Research Project (VETS777) either concurrently for full time students or in a 3rd year for part time students.

Information for each practical component will be available on each module specifying details of times and dates or sent to you directly from a member of our admin team.

MODULE PROVISION TIMETABLE

Year 1 202425 Intake			
Dates	Part-Time PgDip/MSc	Full-Time PgDip	Full-Time MSc
26 Aug 2024	VETS772 module release – preparation for core practical workshop	VETS772 module release – preparation for core practical workshop	VETS772 module release – preparation for core practical workshop
09 Sep 2024 - 13 Sep 2024	5 Day Core Practical Workshop VETS772** (**Also offered in Australia 10 th -15 th September 2024)	5 Day Core Practical Workshop VETS772	5 Day Core Practical Workshop VETS772
16 Sep 2024 - 09 Dec 2024	VETS772 Principles of Veterinary Physiotherapy & Approach to the Animal Patient	VETS772 Principles of Veterinary Physiotherapy & Approach to the Animal Patient VETS775 Neuromotor System in Performance & Disease	VETS772 Principles of Veterinary Physiotherapy & Approach to the Animal Patient VETS775 Neuromotor System in Performance & Disease VETS777 Research Project
09 Dec 2024 - 06 Jan 2025	Christmas break	Christmas break	Christmas break/Literature review preparation
06 Jan 2025 - 31 Mar 2025	VETS771 Anatomy & Biomechanics for the Veterinary Physiotherapist	VETS771 Anatomy & Biomechanics for the Veterinary Physiotherapist VETS774 Veterinary Physiotherapy Practice	VETS771 Anatomy & Biomechanics for the Veterinary Physiotherapist VETS774 Veterinary Physiotherapy Practice VETS777 Research Project
31 Mar 2025 - 07 Apr 2025	Break week	Break week	Break week
07 Apr 2025 - 11 Apr 2025	5 Day Core Practical Workshop VETS771 Liverpool and Leahurst	5 Day Core Practical Workshop VETS771 Liverpool and Leahurst	5 Day Core Practical Workshop VETS771 Liverpool and Leahurst
14 Apr 2025 - 20 Apr 2025	Break week/Easter	Break week/Easter	Break week/Easter
21 Apr 2025 - 02 May 2025	Break	10-day Core Practical Workshop VETS774 Leahurst	10-day Core Practical Workshop VETS774 Leahurst
05 May 2025 - 28 Jul 2025	VETS773 Orthopaedics of the Common Domestic Species for the Veterinary Physiotherapist	VETS773 Orthopaedics of the Common Domestic Species for the Veterinary Physiotherapist VETS776 Advanced Veterinary Physiotherapy Practice	VETS773 Orthopaedics of the Common Domestic Species for the Veterinary Physiotherapist VETS776 Advanced Veterinary Physiotherapy Practice VETS777 Research Project
Week of 04 Aug 2025		Final practical exam online or Leahurst	Final practical exam online or Leahurst
Year 2 202425 Intake			
Dates	Part-Time PgDip/MSc	Full-Time PgDip	Full-Time MSc
Sep 2025 - Dec 2025	VETS775 Neuromotor System in Performance & Disease	N/A	N/A
Dec – Jan 2025	Christmas break		
Jan 2026 - Mar 2026	VETS774 Veterinary Physiotherapy Practice	N/A	N/A
TBC	**10-day Core Practical Workshop dates TBC**		
Apr 2026 - Jul 2026	VETS776 Advanced Veterinary Physiotherapy Practice	N/A	N/A
Aug 2026	Final practical exam online or Leahurst		
Year 3 202425 Intake			
Dates	Part-Time MSc	Full-Time PgDip	Full-Time MSc
Sep 2026 - Jul 2027	VETS777 Research Project	N/A	N/A

202425 INTAKE

Method of Teaching

The six core modules provide materials on our Virtual Learning Environment (CANVAS) supported by practical periods in the form of core practical workshop weeks, veterinary hospital placements and clinical educator placements. During semesters, students are encouraged to work with their cohort with assessed and informal meeting opportunities. There are regular asynchronous learning opportunities with fellow students and academics online via discussion boards and journal clubs.

Students have full access to the University of Liverpool's on site and online library the details of which are on the modules.

An overview of the content for each module is provided at the end of this document (Appendices 1 to 7).

Assessment

Students will be assessed on a continuing basis and assignments are submitted online or provided as practical assessments during practical days. Throughout each module there are several assignments with set submission dates and feedback provided by module tutors. Assignments take various forms, including written reports, essays, short answer questions, assessed discussion boards and practical exams. Specific assessment requirements for each module are provided at the end of this document (appendices 1-7).

Practical Content

Core Practical Workshops

Core practical workshops provide the opportunity for students to develop their practical skills under the guidance of veterinary physiotherapists and veterinarians.

Core practical workshops are integral to VETS772 (1 week in September) VETS771 (1 week in April) and VETS774 (2 weeks in April). All core practical workshops will take place on the Leahurst Campus, Wirral or the Liverpool Campus in the city (Anatomy skills) except for Australasian and nearby students who may be able to attend some of the schools in Queensland, Australia (with an additional cost).

Veterinary Hospital Placements

Students are required to attend two 5-day observational Veterinary Hospital Placements as part of VETS773 and VETS775.

Veterinary Physiotherapy Clinical Placements

Students are required to complete a minimum of 140 hours over 20 days on Veterinary Physiotherapy Clinical Placement with an approved Liverpool Veterinary Physiotherapy Clinical Educator. Clinical Placements may start after the successful completion of the first module and forms part of the assessment for VETS776. Details of approved Clinical Educators are available on your modules in Canvas (under Guidelines and Support).

Final Practical Examination

At the end of VETS776 (Advanced Veterinary Physiotherapy Practice), all students will participate in a practical exam in. This exam will include material contained within VETS771-VETS776 inclusive as

relevant to advanced veterinary physiotherapy practice. Students must pass the practical exam to pass the module.

COMMUNICATION

There are several ways in which we will communicate with students, and it is important that you familiarise yourself with these areas so that you can check for messages and notices regularly. Failure to do so may mean that you miss important information regarding your study.

Email

All students are provided with a University email account and once your registration is complete, **all** University communications will be sent to this account. It is very important that you check this regularly, including during any breaks in your study. To forward your University of Liverpool email onto another account, please review the following [page](#).

If you do email academic or administrative staff, please do so **only** from your University email account stating the module you are enrolled on and if possible, your student ID number. The staff manage several programmes, and this will help us to identify you more easily and respond to your enquiry.

Please try to find information in this handbook, the University of Liverpool's PGT Handbook, through your modules, especially the FAQs section, or through the Veterinary Postgraduate Unit web pages in the first instance. If you cannot find what you are looking for, let us know so that we can provide that information for you and the benefit of other students.

Canvas Based Messaging Service

The platform which hosts the modules (Canvas) also offers the option of a Canvas based messaging service. Email remains the preferred choice for communication, but students are welcome to use the Canvas messaging service when contacting one another. Please note, your module coordinator is unlikely to check messages from there and so please use direct email or the Canvas General Discussion area.

Student Intranet and Liverpool Life

As a student at the University of Liverpool you have full access to the [Student Intranet](#). Within this site you will find all the information, advice and guidance required to help you manage your academic life such as online library support, IT support, access to policies and procedures, support around managing your study and much more. We recommend you set the Student Intranet as your home page whilst you are studying.

Within the Student Intranet, you will also find Liverpool Life, which is the University of Liverpool's portal for current students. Within the portal you can access your programme results and transcripts and it has the facility to request official documentation.

Canvas

Canvas is the online teaching platform (virtual learning environment) used to deliver our modules. Canvas supports learning and teaching activities across the internet and the Veterinary Postgraduate Unit actively uses your modules in Canvas to deliver essential information to students.

This facility takes advantage of web technologies to enable quick and easy provision of module

materials and other relevant information, wherever you are in the world. It also allows students to communicate effectively with their peers, academics involved in the module and the VPU staff.

Students are expected to monitor information concerning their study on their module in Canvas regularly. Teaching specific information will be communicated via your module in Canvas and examples of the types of information that will be displayed there include: assessment feedback, journal club reminders and updates to module materials. Generic information about your study will also be communicated via your module in Canvas, and examples of the type of information that will be displayed there include: copies of this handbook, FAQs, regulations and guidance, useful web-links, and University documentation such as Exemption from Late Penalties and Extenuating Circumstances Guidelines.

Veterinary Postgraduate Unit Website

The Veterinary Postgraduate Unit's website is: <http://www.liverpool.ac.uk/vets/cpd>

External Post

Sometimes we need to contact you via the external postal system so it is important that the unit is kept informed of any changes to your address.

Telephone Contact

Most staff have a direct telephone number, and many have voicemail. You can find the numbers within the 'Key Contacts' section within this handbook, but also on each module.

STUDENT RESPONSIBILITIES

All members of the University community – students, alumni and staff – share responsibility for the continued success of the institution and our students. The [Student Charter](#) sets out our partnership in learning, what the University will provide and what students should undertake.

Insurance

Relevant activities include: Observational placements, clinical placements, core practical workshops and the final exam.

The University of Liverpool has a Public Liability (PL) policy in place which applies to all UoL students who are anywhere in the world on UoL activity.

Provider/organisation insurance requirements

All providers/organisations must have PL and/or Employers Liability (EL) Insurance (min indemnity limit is £5m). Proof of this is requested when the student goes on placement.

All providers/organisations are also requested for proof that they have appropriate risk assessment and induction procedures in place.

UK – PL is not compulsory but EL is mandatory for anyone who would be providing our students with any form of placement. Rest of the world – neither PL or EL is compulsory and may not be available.

Student requirements

The UoL is not liable for any treatment, care or advice the student gives i.e. Professional Liability. It is expected that the student is covered by their own special interest group Association/Society, i.e. the Chartered Society of Physiotherapy, (or student-country equivalent).

All students are expected to take reasonable care for their own health and safety and that of others who may be affected by their actions.

Final exam animals and locations

If the student is using animals and locations that they own, then there is no formal insurance requirement for either the UoL or the student. Under these circumstances, the student is expected to take reasonable care for their own health and safety and that of others who may be affected by their actions.

If the student is using animals and/or locations that they do not own, then it is expected that in the event of an incident, they would claim against the owners of the animals/locations. It is the responsibility of the owners of the animals/locations to have any/relevant insurance should they wish to provide the resources.

Time and Study Commitment

As a postgraduate student studying at Master's level you are expected to be motivated and self-directed, and are responsible for organising your own time and making sure that assessment deadlines and other requirements are met. As a blended-learning student this is particularly important.

Weekly time commitments may vary week to week, but you are expected to study a minimum of approximately:

- 17 hours a week for part-time students;
- 33 hours a week for full-time PgDip students undertaking 2 modules per semester;
- and 40 hours a week for full-time MSc students.

Please note that you have 3 semesters per year and practical commitments during your non-teaching weeks.

Online Communication

As a blended programme, much of the communication is in written form on the online modules, such as in group discussion boards, and we ask that you follow these guidelines to ensure that communication is effective and productive:

- Communication should be constructive, positive and respectful
- Don't attack or judge prematurely
- Write clearly and re-read messages before sending to avoid misinterpretation or misunderstanding
- Use appropriate grammar and punctuation
 - Don't use all capital letters, it can be considered SHOUTING
 - Don't use exclamation marks to emphasise frustration!!!!!!
 - Don't use red writing, this can be interpreted as being angry or annoyed

- Don't write impulsively or write anything that you would not say face to face

Computer Requirements

For your online components you will be accessing a range of tools via the internet. Some basic requirements are required in order to be able to complete the modules. You will need to have access to a computer with the following minimum technical specification and accessories:

For Windows and Mac

- **Operating System:** Windows 10, Mac OS 10.11 (El Capitan) or higher
- **Processor:** Intel i3 or equivalent; 2GHz or higher
- **Hard Drive:** 80 GB or greater
- **Memory:** 2 GB of RAM or higher, 4 GB preferred, depending on the OS
- **Internet Connection:** Broadband internet connection. Note: If you are using a mobile internet provider, you may experience timeouts, IP address issues, session problems, or course mail issues caused by latency. You may also incur additional costs if you go over your mobile data allowance.
- **Browser:** Firefox, Google Chrome. To verify that your browser has all required plugins, use [Canvas's Browser Checker](#).
- **Software:** Mozilla Firefox or Google Chrome, Microsoft Office 2016, 2019 or Office 365, up-to-date Adobe Acrobat Reader* (Adobe products are available via a free download).
- **Graphics and Sound:** Capable of viewing video/audio over the internet (try YouTube with your machine to see if you can play and hear a video).
- **Webcam/Microphone:** Camera enabled device or separate webcam. Microphone enabled device or separate microphone
- **Mobile App Requirements:** Device OS iOS 11+ Android 5+

If you do not have the minimum specification outlined above or would like to ask a question about the technical requirements of joining our programme, please contact IT Services on 0151 794 4567 or email servicedesk@liverpool.ac.uk and let them know what equipment you have, as there may be free updates that can be applied to your computer to help make it compatible with our learning systems.

Feedback from Students to Staff

Student feedback is very important for the review and development of modules and the programme as a whole. All modules have an anonymous module feedback survey which we invite you to complete. In some years, students are invited to take part in the Postgraduate Taught Experience Survey (PTES), run in conjunction with the Higher Education Academy. The overall aim of these surveys is to identify where improvements can be made to enhance the quality of individual modules and the programme. A high response rate is vital to obtain useful results and participation is greatly appreciated.

Informal feedback is welcome at any time, via the discussion board, email or phone.

Student-Staff Liaison Committee (SSLC)

An online SSLC meeting will take place once per semester usually the second week of semester. Due to the small number of students and both part-time and full-time programmes, we invite all students studying the module to each meeting. There is an online meeting per module each semester and a face-to-face meeting at the Leahurst campus for full-time students each semester. A formal agenda will be issued and the student representatives will gather any issues or ideas to raise at each

meeting. Minutes will be taken and circulated for discussion at the next Board of Studies.

Student representatives are an important way to gather more feedback in a peer to peer, less formal manner. Students will be given the opportunity to nominate themselves for election as a year representative and work with staff and fellow students to improve the student learning experience – identifying and discussing issues which affect their modules/programme and helping to come up with solutions. One/two representative/s from each year will be voted in by the students.

All students also have the opportunity to comment on individual modules anonymously on every module through the module survey tool, which is announced, administered and collated and discussed at academic team meetings.

Student Complaints

The Student Charter sets out the general entitlements and responsibilities of students. If you believe you have a legitimate complaint that cannot be solved in the first instance by communication with our team, you should refer to the [Student Charter](#) to clarify what is reasonable for you to expect from the University in the relevant area and whether you have discharged your corresponding liabilities. If, having consulted the Student Charter, you wish to proceed with a complaint you may invoke the Student Complaints Policy and Procedure. For more information, please click [here](#).

Academic Advisor

All students at the University of Liverpool have an Academic Advisor and in your programme your advisor is your Programme Director, Cathy McGowan for part-time students and your Clinical Practice coordinator, Katie Meredith for full -time students. Those of you undertaking the MSc will also have access to a supervisor who will provide advice on your research project. Please contact your Academic Advisor or supervisor for any questions or concerns about your programme.

ASSESSMENT INFORMATION

All assessment follows the university [code of practice of assessment](#) and the [Code of Practice Appendix C for PGT students](#)

Penalties for Word Counts

Almost all your assessments have a recommended number of words and students are advised to keep within that word count. Students should submit work that does not go under or over this figure by 10% and be aware that assessors may stop marking beyond the recommended number of words. Penalties will be applied for exceeding the word count and in some cases where assessors are looking for students to present work succinctly, penalties may be applied as soon as the word count has been exceeded. Unless stated otherwise in specific assessment guidelines, tables, diagrams, references and appendices are not included in the word count but these aspects must only enhance your work and not be a key part of answering the question. Please refer to the specific grading rubrics/ assessment criteria for guidance.

Failing Assessments

The University Code of Practice on Assessment (Appendix C) states: *Candidates who are registered onto a programme of study leading to an award and fail one or more modules at the first attempt shall be permitted to present themselves for re-assessment in the failed assessment component(s) for each failed module **on one further occasion** during the maximum registration period. Re-assessment in research and independent study modules will normally take place within 12 months*

of the publication of results.

This means a student who fails the overall cumulative assessment for a module, will have their performance reviewed at the next exam board (module review board) and may be allowed to resubmit one or more items of assessment within 3 months of the module completion date.

The marks gained for any individual module through reassessment will be capped at 50% for the purposes of calculating the overall average mark and determining classification for an award, except where the re-sit is a consequence of approved Extenuating Circumstances – often referred to as a ‘first-sit’. The actual mark achieved through re-assessment will be the mark recorded on the transcript. The results of any resubmission attempts will be ratified at the next Module Review Board. If resubmission is unsuccessful, or the student fails to resubmit in the invited period, the student will fail the module and their programme of study will be terminated.

Academic Integrity

By submitting your work you are agreeing to the University's [Academic Integrity Policy](#) that you have not plagiarised nor copied material (including your own work assessed elsewhere), nor have you embellished, fabricated nor falsified any of the data nor have you colluded in producing the work nor submitted commissioned or procured work.

Written submissions are required to be submitted via Turnitin and are checked for academic integrity. It is critical that, to avoid the potential for inadvertent plagiarism, that all works are appropriately referenced. Please ensure that you check the "originality" score in Turnitin when you submit your work. It is your responsibility to highlight any potential issues arising from this score, particularly if you believe that there is a specific reason for the high score. In general scores above 25% will be critically examined.

If you are unsure of what the University considers plagiarism or how to reference material correctly, please visit our Skills4Study resource within your online or via the student homepages.

Assessment Feedback

Although your score and some feedback can be found in the “Grades” section of the module in Canvas, for Turnitin assessments you need to go back into Turnitin to get all your feedback. Please check the FAQs section of the homepage or assessments tabs for more information or if you have not been able to get access to all three forms of feedback outlined below.

Feedback is generally in 3 forms, although not all assessors use all forms of feedback on every assessment:

1. The grading rubric – see below for more details
2. Comments on your actual submission – this often includes editorial corrections
3. General text comments on your work overall

Timing of Feedback

If you submit an assignment on time, we aim to provide marks and feedback before the next assignment (of the same type) is due. However, if you submit late, you may not receive feedback until the end of the module.

For modules with larger assessments such as the Research Project, the typical university feedback period of 1 month will be applied.

Variation in Feedback

There are several examiners who mark the assessments. This inevitably may lead to some differences of opinion on what constitutes the “correct” way to do/write anything!

On the positive side it means that your work is assessed by examiners who are the most qualified to do so. If you can assimilate all the pieces of advice, it should help you with any future writing/research project as well as with the compilation of advisory reports to clients/insurance companies/colleagues etc.

Please be aware that the most critical marking and feedback is often the most valuable to you. Some comments will be made purely to give you the assessor’s personal point of view. This view may not always be the same as you or other assessors. It is important to be aware that you will not have your grade reduced because of personal opinions such as this but we consider it extremely valuable to you to have access to expert opinion.

Grading Rubrics

Specific grading rubrics will be used for all online assessment, and these will be available within the relevant assessment instructions page in Canvas. Practical assessments may not have a rubric. These rubrics provide specific feedback on your work, with detailed descriptions of both your allocated result as well as what is required to achieve a better result. All rubrics are available on the module prior to submission of an assessment, and it is your responsibility to view these and ensure your assessment is aligned with the grading rubric.

Moderation

Any student who achieves a final borderline mark of 40-55% will be moderated by the Module Coordinator or designated module moderator. This means marks may be adjusted to ensure they are consistent and fair. Any moderated cases where there is variation of >10% will be flagged and discussed by both examiners. Where agreement is not easily reached these will be passed on to the External Examiner to mediate the final grade.

Boards

A Module Review Board/Board of Examiners will be formed consisting of academics contributing to the assessment for the relevant module being examined, Programme Director, Module Coordinator or representative and the External Examiner. This will be held three times a year. The primary remit is to approve completed module marks giving the External Examiner the opportunity to comment, however, where students have failed, the Board of Examiners will include a Progress Board and progress of any failed students will be discussed and outcomes decided taking into consideration any extenuating circumstances.

Students should be aware that all assessment grades are provisional pending ratification at the relevant Board.

A final Examination Board will be held for the third board of examiners each year to confirm examination marks and recommend award or not (pass/fail) of the final award for each individual taking into consideration any extenuating circumstances.

STUDENT SUPPORT

If you are experiencing difficulties with any aspect of your study, you should contact your Module Coordinator in the first instance, who will be happy to discuss any issues. You can also contact members of the administrative team via their email address, which can be found at the start of this handbook.

Disability Support

The Disability Support Team is responsible for the co-ordination of support for students with disabilities or specific learning difficulties and provides a specialist guidance and support service for all prospective and current students.

They provide support and advice to students with a wide range of impairments. This can include, but is not limited to:

- Visual impairment
- Hearing impairment
- Mobility impairment
- Medical conditions which may be long term or progressive (e.g. epilepsy, chronic fatigue syndrome)
- Mental health difficulties
- Autistic spectrum disorder (ASD) e.g. Asperger's Syndrome.
- Specific learning difficulties (e.g. dyslexia, dyspraxia, dyscalculia)

Please visit the Disability Support Team's website

(<http://www.liverpool.ac.uk/studentsupport/disability/>) for further information and guidance.

To speak with a member of the Team and arrange for a support plan to be put in place, please telephone the Disability Support Team on (0151) 794 4714, 794 5117, 795 0323 or contact them by email: disteam@liverpool.ac.uk

Please Note: Any disclosure made must also be reported to the Assessment Administrator on vpusupport@liverpool.ac.uk at the start of your module so that any individual support outlined in your plan (e.g. additional time allowances etc.) can be put into place for you as soon as possible.

PROCEDURES

Procedure for Handling Late Penalties for Submission of Assessed Coursework

See section 6. [Of the Code of Practice of Assessment](#)

As a postgraduate student you are expected to be motivated and self-directed and are responsible for organising your own time (e.g. holidays/travel) and making sure that assessment deadlines and other requirements are met. Please note that pressures from paid employment are specifically not regarded as extenuating circumstances.

Any assessment submitted late will be subject to a penalty of 5% of the total mark per working day for a maximum of 5 days. (However, the mark will not be reduced below the pass mark for the assessment).

Work received more than five working days after the submission deadline will receive a mark of zero.

Students with [extenuating circumstances](#) on medical or other exceptional grounds, are entitled to request exemption from late penalties for any coursework that has the opportunity for late submission.

Request for exemptions from late penalties will only be granted for a **maximum of two weeks**. Coursework submitted after this time shall be treated as a non-submission and dealt with under the [Policy on Extenuating Circumstances in Relation to Performance in Assessments and Examinations](#).

Requests for exemption from late penalties should be submitted via email at the same time as the late coursework or at the earliest opportunity thereafter.

Students are able to request exemption from late penalties for two individual assessments per academic session without the need for supporting evidence (i.e.: they may self-certify) by emailing vpusupport@liverpool.ac.uk who will verify the application for exemption with the relevant nominee.

For any additional requests, students should submit **evidence** to support their application claims for extenuating circumstances using the form linked on the module.

Assessment which requires, in part, group interaction within a certain time frame, including journal club, may have marks deducted if the late submission falls outside of the interaction period, even if an exemption is granted.

Extenuating Circumstances Affecting Assessment Performance

We recognise that sometimes students can perform poorly in assessments due to extenuating circumstances **on the day**.

Extenuating circumstances might include:

- Illness affecting the student
- Bereavement
- Serious illness affecting a close family member
- Unforeseeable or unpreventable events.

Independent documentary evidence, such as medical certificates, must be provided in all cases to verify extenuating circumstances and must be submitted **within 3 working days of the assessment**, preferably in writing or by email.

If the Programme Director or the Extenuating Circumstances Committee (for the end of module assessments) accepts that there have been extenuating circumstances surrounding your performance, it will usually not regard the poorer than expected performance at its face value in making decisions about your progress in studies or final degree classification. Accepted extenuating circumstances will not affect an assessment grade, but where the assessment has been failed, you may be allowed a resit attempt as a “first attempt”. You will be informed of the outcome of your claim after the meeting of the Board of Examiners.

Further information and forms for submission of Extenuating Circumstances will be posted on your online module under “Guidelines and Support”.

Procedure for Suspending your Studies

You may find it necessary at some point during your programme to suspend your studies. This may be for a variety of reasons, which can be personal, financial or academic.

The University has a number of support services available for you if you need guidance or advice. In all cases, we advise you to discuss any possibility of suspension with your academic advisor :Programme Director (part-time students) or Clinical Practice Coordinator (full-time students).

If you do decide to suspend your studies, you will need to complete a Suspension of Studies Form and have this approved by the School. It should be noted that suspensions should be applied for in whole months up to a maximum of one year. For the most up to date procedures and a copy of the form, please visit the Student Administration [website](#).

Procedure for Leaving your Programme Early

We understand there are many reasons for wanting to leave your programme early, but before you do, we advise you to talk with your programme lead or your School about why you want to leave the University. They may be able to offer help and advice that will allow you to carry on with your studies. If you don't want to talk to your programme lead, Student Services will be able to offer you confidential help and advice. You can also speak in confidence to a member of the [Counselling Service](#).

If you do want to leave your programme early and withdraw from the University, you must let us know as soon as possible. It is important to understand that withdrawing from University will have an impact on your fees.

Fees charged to registered students will be calculated based on the date the University is informed of any change in registration. Students should therefore follow the University's formal procedures for withdrawal or suspension outlined on the [website](#).

Further information around how interrupting or withdrawing from your studies will affect your fees can be found [here](#).

Procedure for Handling Assessment Appeals

The University is committed to ensuring that it provides for its students a high quality educational experience, supported by appropriate academic services. It recognises, however, that there might be occasions when students will feel that they have cause to appeal against an academic decision made by a Module Review Board or Board of Examiners in relation to their studies.

The Assessment Appeals Procedure outlines the details of appeal considerations and, in the event of an appeal being unsuccessful, students' rights to further appeal. For the most up to date procedures, timescales and links to the policy, please click [here](#).

APPENDIX 1

VETS772 Principles of Veterinary Physiotherapy and Approach to the Animal Patient

Value: 20 credits
Notional Study Hours: 200

Aims of Module

The aim of this module is to develop critical awareness of the legislation that frames animal therapy and develop a comprehensive understanding of the assessment and therapy of animals including emphasis on the importance of good verbal and written communication.

Learning Outcomes

1. Critically analyse the legal, professional and ethical implications of veterinary physiotherapy practice.
2. Systematically evaluate the importance of liaison with veterinarians, veterinary nurses and other paraprofessionals.
3. Communicate successfully at many different levels, changing the terminology used to accommodate the audience.
4. Systematically apply principles of evidence-based practice to evaluate the scientific literature relating to and the implications for veterinary physiotherapy clinical practice.
5. Apply clinical reasoning to issues through independent thought and informed judgement.
6. Recognise normal and problem behaviours of commonly treated domestic animals; describe how animal behaviour is modified by pain and implement safe and appropriate responses.
7. Perform physiotherapy assessments of both large and small animals, critically evaluate the findings and then establish appropriate treatment goals.

Module Structure

1. Law and professional ethics in the Veterinary and Physiotherapy Professions
Relevant legislation for the Veterinary Physiotherapist including professional, welfare, transport, medicines and performance animal regulations
2. Communication Skills
 - Interaction with the members of the veterinary physiotherapy team
 - Clinical record keeping and report writing
3. Clinical Reasoning, Evidence Based Medicine and Continuous Professional Development
 - Clinical reasoning
 - Evidence-based medicine
 - Critical evaluation of the literature
 - Keeping up to date in clinical professional physiotherapy practice
4. Physiotherapy assessment of the animal Patient
 - Safe handling and approach to the animal patient
 - Normal and problem behaviours in animals
 - Behaviour and pain in animals
 - History taking and signalment
 - Assessment of static and dynamic conformation
 - Palpation of soft tissues and determination of normal and abnormal findings
 - Range of motion of joints (spinal and peripheral)

- Reflexes and stretching

Practical Component

There is an obligatory **5 day core practical workshop** at Leahurst Campus, UK or Queensland, Australia.

Assessment

- **Practical Test** - At the end of the core practical workshop (10%)
- **Short Answer Questions** - At the end of study units 1 - 4 (20%)
- **Journal Critique** - You will be assigned a study unit and topic in which you will have to participate in journal club by providing a journal article and a summary of its applicability to practice/evidence-based medicine (10%)
- **Discussions** - Discussions occur at any time during the nominated week/study unit (10%)
- **Case based Essays** – 2 x 1500 word case based essays due at the end of the module (50%)

APPENDIX 2

VETS771 Anatomy and Biomechanics for the Veterinary Physiotherapist

Value: 20 credits
Notional Study Hours: 200

Aims of Module

The aim of this module is to develop in depth knowledge of the musculoskeletal anatomy and biomechanics of the common domestic species for qualified physiotherapists including a critical awareness of comparative aspects between these species and humans and how this may affect the type of locomotion or performance expected.

Learning Outcomes

1. Use the appropriate anatomical vocabulary for describing the arrangement and orientation of a particular structure.
2. Describe the anatomy of the domestic species and critically evaluate similarities and differences in the arrangement of muscles, bones, tendons, joints, nerves and major blood vessels between common domestic species and humans.
3. Describe the structure and mechanical properties of muscle, tendon, bone and cartilage critically evaluating the response of these structures to the mechanical environment, exercise, fatigue, ageing and injury.
4. Critically analyse the biomechanics of locomotion of the horse and dog, including sports specific locomotion and factors affecting locomotion including the rider, training aids and farriery.
5. Critically evaluate the scientific literature relevant to musculoskeletal anatomy and biomechanics of the common domestic species.

Module Structure

1. Anatomy of the thoracic limb

- Osteology, synovial structures and muscular arrangement of the equine and canine thoracic limb, including the thoracic limb stay apparatus in horses and use of appropriate anatomical terminology to describe and orientate a specimen.
- Major nerves and blood vessels of the thoracic limb.
- Cutaneous sensation and muscle function related to each major nerve in the thoracic limb.
- Normal range of motion of the joints of the thoracic limb, and structures that constrain the range of movement of a joint in a particular plane.
- The role of the main thoracic limb muscle groups in locomotion including the specialised structures of the equine thoracic limb and the effect on individual joint movement and locomotion elicited by damage to a specific element of the musculoskeletal system.
- The underlying anatomical structures that correspond to topographical features of the thoracic limb on the living animal.

2. Anatomy of the pelvic limb

- Osteology, synovial structures and muscular arrangement of the common domestic species' pelvic limb, including the thoracic limb stay apparatus in horses and use of appropriate anatomical terminology to describe and orientate a specimen.
- Major nerves and blood vessels of the pelvic limb.
- Cutaneous sensation and muscle function related to each major nerve in the pelvic limb.

- Normal range of motion of the joints of the pelvic limb, and structures that constrain the range of movement of a joint in a particular plane.
- The role of the main pelvic limb muscle groups in locomotion including the specialised structures of the equine thoracic limb and the effect on individual joint movement and locomotion elicited by damage to a specific element of the musculoskeletal system.
- The underlying anatomical structures that correspond to topographical features of the pelvic limb on the living animal.

3. Anatomy of the head, spinal column and trunk

- Osseous, muscular and other soft tissue structures of the vertebral column vertebrae.
- Function of the vertebral column including passive and active structures supporting the vertebral column and contribution to locomotion in the different mammalian species.
- Thoracic and abdominal wall anatomy.
- Dentition in the horse and dog.

4. Musculoskeletal tissues

- Mechanical properties of muscle, bone, cartilage, tendon and ligament in relation to their function in locomotion including the shape of individual bones in relation to their loading pattern in vivo.
- Individual joint components and their contribution to joint stability, movement and resistance to mechanical damage.
- Properties of muscle proteins, structure and function in contraction (sliding filament theory of muscle contraction), muscle fibre types and their role in high speed and economical locomotion and the relationship between muscle contraction velocity and force development in concentric and eccentric contractions.

5. Biomechanics of locomotion

- Common domestic species' static and dynamic conformation.
- Common domestic species' gait.
- Kinetics and kinematics, stress and strain.
- Neuromotor control and joint stability in control of movement.

6. Anatomy of the equine foot and farriery

- Equine hoof structure and growth.
- Horse shoeing, effect on performance, limb biomechanics, conformation and soundness.

Practical Component

There is an obligatory **5 day core practical workshop** at Leahurst Campus/Liverpool Campus, UK.

Assessment

- **Practical Test** - At the end of the core practical workshop (5%)
- **Short Answer Questions** - At the end of study units 1-5 (45%)
- **Journal Critique** - You will be assigned a study unit and topic in which you will have to participate in journal club by providing a journal article and a summary of its applicability to practice/evidence-based medicine (10%)
- **Discussions** - Discussions occur at any time during the nominated week/study unit (10%)
- **Essay** - 2000-word essay due at the end of the module (30%)

APPENDIX 3

VETS773 Orthopaedics of the Common Domestic Species for the Veterinary Physiotherapist

Value: 20 credits
Notional Study Hours: 200

Aims of Module

The aim of this module is to develop an in depth understanding of a range of orthopaedic and musculoskeletal conditions that affect the common domestic species.

Learning Outcomes

1. Critically analyse the musculoskeletal demands of working pets and athletic animals.
2. Describe the veterinary approach of diagnosing lameness in animals as applicable to veterinary physiotherapists.
3. Relate problems associated with osseous, joint, tendon and ligament structures due to developmental disorders, injury/trauma and degenerative disorders to appropriate physiotherapy rehabilitation options.
4. Relate veterinary conservative and surgical treatment approaches to physiotherapy rehabilitation of orthopaedic disorders.
5. Critically analyse fracture biomechanics, healing, repair and complications in relation to management strategies including post-operative care and physiotherapy management of patients with fractures.
6. Critically evaluate the scientific literature relevant to orthopaedics of the common domestic species for the veterinary physiotherapist.

Module Structure

1. CANINE ORTHOPAEDICS

Musculoskeletal demands of working pets.

Veterinary Approach to the lame dog

Components of the lameness examination

- Examination at rest and during movement
- Manipulative tests
- Diagnostic imaging

Osseous, joint, tendon and ligament disorders resulting from developmental, injury/trauma and degenerative disorders

Treatment approaches to orthopaedic disease as applicable to veterinary physiotherapists.

Post-operative management of surgical orthopaedic disorders

- Including aspects of fracture biomechanics, healing and repair, including complications

2. EQUINE ORTHOPAEDICS

Musculoskeletal demands of athletic animals.

Common nomenclature, conformational and clinical terms and definitions

Veterinary approach to the lame horse

Components of the lameness examination

- Examination at rest and during movement
- Manipulative tests
- Diagnostic analgesia: Nerves and joints
- Diagnostic imaging

Osseous, joint, tendon and ligament disorders resulting from developmental, injury/trauma and degenerative disorders

Treatment approaches to orthopaedic disease as applicable to veterinary physiotherapists

Post-operative management of surgical orthopaedic disorders

- Including aspects of fracture biomechanics, healing and repair, including complications

Practical Component

You are required to arrange an informal 5 days of Veterinary Hospital Placements during the module. You may attend more than one Veterinary Hospital during this time.

Assessment

- **Veterinary Hospital Placement** - students are required to pass their Veterinary Hospital Placement (pass/fail)
- **Short Answer Questions** - At the end of study units 1 and 2 (30%)
- **Journal Critique** - You will be assigned a study unit and topic in which you will have to participate in journal club by providing a journal article and a summary of its applicability to practice/evidence-based medicine (10%).
- **Discussions** - Discussions occur at anytime during the nominated week/study unit (10%)
- **Essays** - 2 x 1500 word essays due at the end of study units 1 and 2 (50%)

APPENDIX 4

VETS775 Neuromotor System in Performance and Disease

Value: 20 credits
Notional Study Hours: 200

Aims of Module

The aim of this module is to develop an in depth knowledge of the neuromotor system in performance and disease including adaptations to training, feeding for performance and diseases and disorders affecting the neuromotor system in animals.

Learning Outcomes

1. Compare and contrast adaptation to training of the neuromotor versus the cardiovascular and pulmonary systems.
2. Compare and contrast gastrointestinal function between small and large animals, and interpret how nutrition affects health and performance.
3. Systematically analyse the diseases and disorders which may affect the nervous and muscular systems, and identify appropriate physiotherapy rehabilitation options.
4. Translate knowledge of the effect of the anti-inflammatory and sedative drugs from humans to animals, and interpret how these effects might affect physiotherapy assessment and treatment.
5. Compare and contrast inflammation and wound healing across different species including humans.
6. Critically evaluate the scientific literature relating to the neuromotor system in performance and disease.

Module Structure

1. Training effects on the cardiorespiratory and neuromotor systems
Adaptation to training of muscles, bones
Effects of different types of training on the musculoskeletal system

2. Nutrition
Feeding for performance in the horse and dog
Nutritional disorders in the horse and dog

3. Small Animal and Equine Neurology and Myopathies
The neurological examination
Common neurological conditions
Rehabilitation options
Differentiate neurological and muscular disease
Common myopathies in animals
Physiotherapy treatment and rehabilitation options

4. Wound Healing, Inflammation and Pharmacology
Inflammation and factors affecting wound healing in different animal species
Drug effects and side effects relevant to the physiotherapist

Practical Component

You are expected to arrange an informal 5 days of Veterinary Hospital Placements during the module.

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You may attend more than one Veterinary Hospital during this time.

Assessment

- **Veterinary Hospital Placement** - students are required to pass their Veterinary Hospital Placement (pass/fail)
- **Short Answer Questions** - (30%)
- **Journal Critique** - You will be assigned a study unit and topic in which you will have to participate in journal club by providing a journal article and a summary of its applicability to practice/evidence-based medicine (10%)
- **Discussions** - Discussions occur at any time during the nominated week/study unit (10%)
- **Essays** – 3 x 1000 word essays (50%)

APPENDIX 5

VETS774 Veterinary Physiotherapy Practice

Value: 20 credits
Notional Study Hours: 200

The aim of this module is to enable physiotherapists to critically evaluate and translate their knowledge and understanding of human physiotherapy practice to that of animal patients, facilitating an in depth understanding of the physiotherapist and their practice in context of the veterinary multidisciplinary team.

Learning Outcomes

1. Critically analyse the functional effects of primary dysfunction on the entire musculoskeletal system.
2. Apply the principles of clinical reasoning in the development of a problem list, short/long term treatment plans and goals appropriate to a condition, incorporating information from the veterinary and physiotherapy assessment.
3. Critically evaluate the theoretical basis of individual manual, physical, electro-, hydro- and exercise therapy techniques, including the optimum time of application, and use of these techniques when treating animals.
4. Critically evaluate the scientific literature relevant to veterinary physiotherapy practice.

Module Structure

1. Manual Therapies

The safe and effective application of a range of manual modalities (soft tissue massage, trigger point therapy, myofascial release) in the physiotherapy management of pain and musculoskeletal conditions in animals including theory and understanding of the different physiological effects, evaluation of effects and progression/regression of treatment, knowledge of safety precautions and contra-indications.

2. Physical (Hot and Cold) Therapies

The safe and effective application of a hot and cold therapy in the physiotherapy management of pain and musculoskeletal conditions in animals including theory and understanding of the different physiological effects, evaluation of effects and progression/regression of treatment, knowledge of safety precautions and contra-indications.

3. Electrotherapy

The safe and effective application of a range of electrotherapy modalities (ultrasound, laser, TENS, muscle stimulation) in the physiotherapy management of pain and musculoskeletal conditions in animals including theory and understanding of the different physiological effects, evaluation of effects and progression/regression of treatment, knowledge of safety precautions and contra-indications.

4. Hydrotherapy

The safe and effective application of hydrotherapy in the physiotherapy management of pain and musculoskeletal conditions in animals including theory and understanding of the different physiological effects, evaluation of effects and progression/regression of treatment, knowledge of safety precautions and contra-indications.

5. Exercise Therapy

The safe and effective application of therapeutic exercise prescription in the physiotherapy

management of pain and musculoskeletal conditions in animals including theory and understanding of the different physiological effects, evaluation of effects and progression/regression of treatment, knowledge of safety precautions and contra-indications.

Practical Component

There is an obligatory **10-day core practical workshop** at Leahurst Campus/Liverpool Campus, UK or Queensland, Australia.

Assessment

- **Short Answer Questions** - (30%)
- **Journal Critique** - You will be assigned a study unit and topic in which you will have to participate in journal club by providing a journal article and a summary of its applicability to practice/evidence-based medicine (10%)
- **Discussions** - Discussions occur at any time during the nominated week/study unit (10%)
- **Case Reports** - 2 x 1500 word case reports (50%)

APPENDIX 6

VETS776 Advanced Veterinary Physiotherapy Practice

Value: 20 credits
Notional Study Hours: 200

Aims of Module

The aim of this module is to enable the student to further develop, consolidate and critically appraise their clinical and theoretical veterinary physiotherapy skills and knowledge to be able to apply them in a professional manner in clinical practice.

Learning Outcomes

1. Critically analyse and reflect on the principles of objective measurement, reassessment, and treatment progression relative to the animal's dysfunction.
2. Critically evaluate the theory behind, and assess the biomechanical contributions of, the application of training aides, saddlery (tack) and the rider/handler in the onset, maintenance or resolution of equine/canine dysfunctions.
3. Critically analyse how the management of an animal affects the onset and/or maintenance of musculoskeletal dysfunction.
4. Critically evaluate the use of advanced physiotherapeutic practice in humans, using principles of clinical reasoning, evidence-based practice and an in-depth knowledge of the diseases and disorders involved, and demonstrate skill in their application to the treatment and rehabilitation of animals.
5. Critically evaluate the scientific literature relating to advanced veterinary physiotherapy practice.
6. Critically reflect on current veterinary physiotherapy practice, identifying current problems and/or new insights into where veterinary physiotherapy could develop, and incorporating a critical analysis of the veterinary or medical literature to justify such developments.
7. Deal with complex clinical problems systematically and creatively, make sound judgements in the absence of complete data (using clinical reasoning and evidence-based practice), and communicate conclusions clearly to specialist and non-specialist audiences.

Module Structure

Study Unit 1 Advanced Physiotherapy Techniques

The intensive care animal patient
Cardiac rehabilitation
Neurological Rehabilitation
Respiratory physiotherapy

Study Unit 2 Management of animals and musculoskeletal dysfunction

The dog and handler interaction
The horse and rider interaction, including influence of tack
Training program design and over training

Study Unit 3 Professional Physiotherapy practice

Animal Ethics
Working as a multidisciplinary team
Selection and application of the correct treatment plan (clinical reasoning and EBM in practice)
Communication as a professional

Practical Component

Students are required to complete their 20 days of Clinical Placements with Veterinary Physiotherapists by the end of this module and prior to the Practical Exam.

All students will also participate in a one-hour exam which will cover the material contained within VETS771-VETS776 inclusive.

Students must pass the practical exam and clinical educator assessments to pass the module.

Assessment

- **Practical Examination** – At the end of the module (20%)
- **Clinical Educator Assessment** – on-going during placement and due prior to the practical exam (30%)
- **Case Reports** - 3 x 1000 words (50%)

APPENDIX 7

VETS777 Research Project (MSc)

Value: 60 credits
Notional Study Hours: 600

Aims of Module

The aim of this module is for students to develop research skills, review the literature around a specific area, undertake independent research, critically evaluate research findings, and implement research results in practice.

Learning Outcomes

At the end of this module students will be able to:

1. demonstrate a systematic understanding of the role of research in informing clinical practice and evidence-based medicine;
2. evaluate critically current research and advanced scholarship and communicate this in the form of a written literature review;
3. demonstrate an in depth understanding the types of research design commonly used in clinical research and the indications for the use of each;
4. demonstrate a comprehensive knowledge of experimental data collection and analysis, including interpretation of their validity;
5. demonstrate the ability to communicate research findings in the form of a scientific report (scientific paper or dissertation) and an oral presentation detailing data and results obtained during the research project, and putting these findings into scientific context;
6. demonstrate initiative and personal responsibility as well as being able to manage time, work to deadlines, and prioritise workloads;
7. demonstrate self-direction and originality in tackling and solving problems, and act autonomously in planning and implementing tasks at a professional or equivalent level.

Method of Teaching

Projects are selected by students in consultation with potential supervisors and the module coordinator. Supervisors will provide guidance and mentorship, ensuring the project is approved by the appropriate ethics committee if required, and maintaining communication with the student (the frequency of which will vary based on the stage of the project, but is likely to be monthly on average).

Students are supported with an online series of tutorials and materials, including access to the University of Liverpool's online library.

A small amount of money (max. £500) will be available to your supervisor to cover costs associated with running the project e.g. consumables, travel (for you or them).

Module Structure

This module is divided into 3 overlapping units of work, starting with basic research methodology and literature review prior to the research project.

1. Research techniques and evidence-based medicine (150 hours)

- research in clinical practice - evidence-based medicine

- principles of animal research and ethics
- introduction to research design
- validity and reliability in research instruments
- survey research
- data management and spreadsheet design
- basic statistical analysis

2. Literature review (200 hours)

- how to structure a scientific review of the literature

3. Project Work (250 hours)

- conduct of a small research study, clinical audit or systematic review
- communicate findings in the form of an oral presentation detailing results obtained during the project
- preparation of a scientific research manuscript, audit report or systematic review
- collaborate effectively with your supervisor and other members of the team involved in the project

Assessment

- **2 Short Answer Question Assessments** – during study unit 1 (5%)
- **Literature Review** – 2000 words due at the end of study unit 2 (20%)
- **Project Talk** - At the end of the module (15%)
- **Research/Scientific Manuscript** – 5000 words due at the end of the module (60%)