

ANSC*2330 Horse Management Science

Fall 2018 Section(s): C01

Department of Animal Biosciences Credit Weight: 0.50 Version 1.00 - September 04, 2018

1 Course Details

1.1 Calendar Description

An introduction to horse management designed to give those with an interest in the various segments of the horse industry a strong scientific basis for production and management decisions. The course includes study of the evolution of our current industry, the biology of growth, performance and management of the equine athlete. The evaluation of conformation as it relates to performance as well as aspects of behaviour, nutrition, reproduction and genetics consistent with the level of the course are included.

Pre-Requisite(s): [BIOL*1040 or (2 of BIOL*1050, BIOL*1070, BIOL*1080,

BIOL*1090)]

Restriction(s): Not available to students registered in BBRM.EQM program.

1.2 Course Description

This course provides an opportunity for students to develop an understanding of equine anatomy and conformation as it relates to equiine health, management and performance. Students will learn to navigate and utilize scientific literature pertaining to equine anatomy as a basis for sound management and health decisions in horse care.

1.3 Timetable

Monday, Wednesday and Friday, 11:30AM - 12:20PM GRHM Room 2310

1.4 Final Exam

No Final Exam, final assessment will be Quiz 3 (online via Courselink) on Friday November 30th

2 Instructional Support

2.1 Instructor(s)

Wendy Pearson BSc(Agr), MSc, PhD

Email: wpearson@uoguelph.ca **Telephone:** +1-519-824-4120 x53652

Office: ANNU 227

Office Hours: Mon to Friday, by appointment

2.2 Teaching Assistant(s)

Teaching Assistant: Jennifer MacNicol MSc, PhD (candidate)

Email: jmacnico@uoguelph.ca

Office: ANNU 217

Office Hours: By appointment

3 Learning Resources

3.1 Other Resources

Recommended Text:

Anatomy of the Horse (6th Edition)
by Budras, Klaus Dieter, Sak, WO., Rock, Sabine
avalable online at <a href="http://primo.tug-library/librar

libraries.on.ca/primo library/libweb/action/dlDisplay.do?vid=GUELPH&docId=vtug4389209&fn=permali

3.1 Field Trips

none

4 Learning Outcomes

4.1 Course Learning Outcomes

By the end of this course, you should be able to:

- 1. Be able to recognized and identify major anatomical structures of the horse
- 2. Explain the function of the major equine anatomical structures and systems
- 3. To relate physiological functions to anatomical structures
- 4. to integrate knowledge of anatomy and physiology as it relates to the living horse
- 5. to compare physiological differences between horses and other species
- 6. Review and organize information about a specific aspect of equine science

5 Teaching and Learning Activities

5.1 Lecture

Sep 7

Topic(s): Course Introduction

Sep 10, 12, 14

Topic(s): The evolution of form and function in the horse

Sep 17, 19, 21

Topic(s): Gastrointestinal Anatomy and Physiology

Sep 24, 26, 28

Topic(s): Skeletal system. Axial and apendicular skeleton. Anatomy and

physiology of bone and joints. The stay apparatus.

Oct 1, 3

Topic(s): The integument. Skin, hair, and hooves. Hoof form and function.

Coat colour and markings.

Fri, Oct 5, 11:30 AM - 12:20 AM

Topic(s): Quiz 1 (online via courselink) - no lecture today

Oct 8

Topic(s): Thanksgiving – no classes

Oct 10,12

Topic(s): Muscles. Identify main locomotory muscles. Anatomy and

physiology of muscle. Interaction between skeletal and muscular

system in movement.

Oct 15, 17, 19

Topic(s): Cardiovascular system. Structure and function of blood.

Components of the circulatory system. Cardiac cycle.

Oct 22, 24, 26

Topic(s): Respiratory system. Body's defense system to protect the lungs.

Gas exchange processes. Respiratory cycle.

Oct 29, 31

Topic(s): Immune system. Humeral defences - cellular, complement,

antibodies, cell-mediated. Antibody production and antibody-

antigen interactions. Concept of histo-compatibility.

Fri, Nov 2, 11:30 AM - 12:20 PM

Topic(s): Quiz 2 (online via courselink) - no lecture today.

Nov 5, 7, 9

Topic(s): Nervous system

Nov 12, 14, 16

Topic(s): Endocrine system. Identify organs associated with hormone

production. Differentiate between protein and steroid hormones,

production and mode of action.

Nov 19, 21, 23

Topic(s): Urinary system. Functional physiology. Hormonal influences.

Role of kidney in red blood cell formation. Factors that affet urine

concentration

REMINDER - LITERATURE REVIEW DUE FRIDAY NOV 23

Nov 26, 28

Topic(s): Student presentations

Fri, Nov 30, 11:30 AM - 12:20 PM

Topic(s): Quiz 3 (online via courselink) - no lecture today

6 Assessments

6.1 Marking Schemes & Distributions

Name	Scheme A (%)
Quizes	60
Literature review	25
Group Presentations	15
Total	100

6.2 Assessment Details

Quiz 1 (20%)

Due: Fri, Oct 5, 11:30 AM - 12:20 AM

Online via courselink during regular class time.

Quiz 2 (20%)

Date: Fri, Nov 2, 11:30 AM - 12:20 PM

Online via courselink during regular class time

Quiz 3 (20%)

Due: Fri, Nov 30, 11:30 AM - 12:20 AM

Online via courselink during regular class time

Literature Review (25%)

Due: Fri, Nov 23, 11:59 PM

Muscles assignment (15%)

Students will work in groups of \sim 9 people. Groups will sign up for one of the following muscle groups:
head and neck
shoulder
trunk
pelvis
forelimbs
hindlimbs
stay apparatus (fore and hind)
Within each group, approximately equal numbers of students will work on one of following tasks:
- create a visually-appealing, creative 10-min presentation (can be powerpoint, poster-board, clay models etc)

- present their work to the class in a 10-min oral presentation
- create a one-page hand-out for the audience

7 Course Statements

7.1 Grading Policies

Any student who claims medical, psychological or compassionate grounds as a reason for missing a Quiz must obtain appropriate documentation as outlined in the Undergraduate Calendar under Section VIII: Undergraduate Degree Regulations and Procedures – Academic Consideration and Appeals. Once the documentation is approved by the Instructor or Department Chair, a student with appropriate documentation will be granted an exemption from the Quiz. There will not be any deferred Quiz. The mark for an exempted Quiz will be proportionally equivalent to the average of the student's submitted quizzes as compared to the class average. If there is no adequate documentation for absence from a Quiz, a mark of zero will be awarded. Suspected cases of academic misconduct and plagiarism will be reported to the Dean, Ontario Agricultural College

7.2 Group Work

The mark for the group project will be comprised of 50% instructor, 25% group members, and 25% audience assessments. Any student who claims medical, psychological or compassionate

grounds as a reason for missing the group presentation MUST obtain appropriate certification as outlined in the Undergraduate Calendar under Section VIII: Undergraduate Degree Regulations and Procedures – Academic Consideration and Appeals. Once the documentation is approved by the Instructor or Department Chair, a student with appropriate certification will be granted an exemption from the group presentation. Lack of appropriate documentation for absence from the group presentation will result in a grade of 0 for the absent student. Suspected cases of academic misconduct and plagiarism will be reported to the Dean, Ontario Agricultural College.

7.3 Use of Electronic Devices and Recording of Lectures

Students are welcome to use electronic devices such as laptops or audio recording devices for note taking in class. However, students must get written permission from the instructor to record (video or audio) lectures.

8 University Statements

8.1 Email Communication

As per university regulations, all students are required to check their e-mail account regularly: e-mail is the official route of communication between the University and its students.

8.2 When You Cannot Meet a Course Requirement

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons please advise the course instructor (or designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. The regulations and procedures for <u>Academic Consideration</u> are detailed in the Undergraduate Calendar.

8.3 Drop Date

Courses that are one semester long must be dropped by the end of the fortieth class day; twosemester courses must be dropped by the last day of the add period in the second semester. The regulations and procedures for <u>Dropping Courses</u> are available in the Undergraduate Calendar.

8.4 Copies of Out-of-class Assignments

Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

8.5 Accessibility

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student.

When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required, however, interim accommodations may be possible while that process is underway.

Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability.

Use of the SAS Exam Centre requires students to book their exams at least 7 days in advance,

and not later than the 40th Class Day.

More information: www.uoguelph.ca/sas

8.6 Academic Misconduct

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community – faculty, staff, and students – to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

The Academic Misconduct Policy is detailed in the Undergraduate Calendar.

8.7 Recording of Materials

Presentations which are made in relation to course work—including lectures—cannot be recorded or copied without the permission of the presenter, whether the instructor, a classmate or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

8.8 Resources

The <u>Academic Calendars</u> are the source of information about the University of Guelph's procedures, policies and regulations which apply to undergraduate, graduate and diploma programs.