<div class="printBefore"> <h1 class="pageTitle">ANSC30010 Animal Reproduction</h1> <h2>Academic Year 2019/2020</h2>

This module is for students with an interest in the physiology of reproduction in domesticated animals. The module includes comprehensive components on the physiological systems of reproduction and on the approaches that are used to manipulate reproduction in domesticated animals. The module gives students foundation knowledge of the physiology of hormones and pheromones of reproduction, ovarian and testicular function, sperm and oocyte development, embryo development, establishment and maintenance of pregnancy and parturition. In addition to basic physiology, the module includes a large component on the application of physiology and new technologies to animal reproduction in agriculture including factors affecting puberty; expression, detection and synchronization of oestrous behaviour; artificial insemination, in vitro embryo production and embryo transfer.

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<div style="text-align:center;">Curricular information is subject to change</div>

What will I learn?

Learning Outcomes:

On completion of this module students should be able to: Explain and understand the endocrine control of reproduction; Explain factors controlling sperm production, reproductive cycles, ovarian follicular growth and the establishment and maintenance of pregnancy; Evaluate the level of reproductive efficiency in different farm species; Evaluate the efficiency and impact of assisted reproductive technologies at farm level; Apply an understanding of reproductive physiology to formulate solutions to reproductive problems in animals.

Indicative Module Content:

Introduction History of embryology Testicular anatomy and function Spermatogenesis & accessory glands Semen collection and processing Artificial insemination Endocrinology (+ve & -ve feedback etc) Reproductive cycles and hormones Oogenesis and ovarian follicle development Patterns of follicle growth Luteolysis and maternal recognition of pregnancy Sexual differentiation Puberty Pheromones Oestrous behaviour and detection Synchronisation of oestrus Gamete transport and fertilization Pregnancy and parturition Embryo mortality Superovulation and embryo transfer In vitro embryo production Cloning and transgenesis Anoestrus - gestation, lactation, seasonal Postpartum reproduction - Beef & Dairy Reproduction in non-farm species

How will I learn?

Student Effort Hours:

Student	Hours
Effort Type	
Lectures	36
Practical	9
Autonomous	55
Student	
Learning	
Total	100

Am I eligible to take this module?

<ptstudents should have taken a basic course in biology before attempting this course.</p>

<div class="subHeadCB">Module Requisites and Incompatibles</div>

Not applicable to this module.

How will I be assessed?

Assessment Strategy

Description	Timing	Open Book	Component	Must Pass	% of Final
		Exam	Scale	Component	Grade
Continuous	Varies over	n/a	Graded	No	20
Assessment:	the Trimester				
One in-class					
MCQ style					
quiz in					
mid-semester					
Examination:	2 hour End of	No	Graded	No	60
MCQ-style	Trimester				
examination	Exam				
Practical	Week 12	n/a	Graded	No	20
Examination:					
1 hour MCQ					
style practical					
exam					

<div class="row">

<div class="col-sm-6">Carry forward of passed components Yes</div>

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What happens if I fail?

Resit In	Terminal	
	Exam	
Spring	Yes - 2 Hour	

Assessment feedback

<div class="subHeadCB">Feedback Strategy/Strategies</div>* Group/class feedback, post-assessment

<div class="subHeadCB">How will my Feedback be Delivered?</div>Results for in-term tests will be given within 2 weeks of sitting the test.

Reading List

<div class="pageBreak"><nav class="white-box no-left-arrow zero-top-margin">

<h1 class="printOnly"> UCD Course Search

Animal Reproduction (ANSC30010) </h1><h3 class="printOnly">Academic Year 2019/2020</h3>The information contained in this document is, to the best of our knowledge, true and accurate at the time of publication, and is solely for informational purposes. University College Dublin accepts no liability for any loss or damage howsoever arising as a result of use or reliance on this information.

<dl>

<dt>Subject:</dt>

<dd>Animal Science</dd>

<dt>College:</dt>

<dd>Health & Agricultural Sciences</dd>

<dt>School:</dt> <dd>Agriculture & Food Science</dd> <dt>Level:</dt> <dd>3 (Degree)</dd> <dt>Credits:</dt> <dd>5.0</dd>

<dt>Trimester:</dt> <dd>Autumn</dd> <dt>Module Coordinator:</dt> <dd>Professor Patrick Lonergan</dd> <dt>Mode of Delivery:</dt> <dd>Face-to-Face</dd> <dt>Internship Module:</dt><dd>No</dd>

<dt>How will I be graded?</dt> <dd>Letter grades </dd>

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(Google Chrome is recommended when printing this page)</div>

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