

3.00 credits

26.0 h + 4.0 h

Q1

Teacher(s)	Moens André ;
Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	A good knowledge of the elementary zoology and the cellular and molecular biology is absolutely necessary
Main themes	<p>The course is divided into two parts:</p> <ul style="list-style-type: none"> <li>- The embryonic period consists of gametes production, fertilization and the embryo development until its implantation in the domestic mammal species as well as the different types of placentation. The embryonic development of the bird embryo is also envisaged. An important chapter on the biotechnologies of the mammalian embryo ends this first part.</li> <li>- The fetal period consists of the development of the various organs and systems as well as their abnormalities of development observed in our domestic species (horse, bovine, carnivores, pig and hen).</li> </ul>
Learning outcomes	<p><b>At the end of this learning unit, the student is able to :</b></p> <p>1 Understand the basic processes involved in the embryonic development and the differentiation of tissues, organs and systems of organs of our domestic mammals and the bird. That knowledge will help the student to understand more efficiently the anatomical and physiological aspects of the adult animal and the origin of the congenital abnormalities. The accent is put on the aspects more particularly important for the veterinary practice.</p>
Evaluation methods	Oral exam with 45 minutes of preparation
Teaching methods	<p>Oral lecture by the professor                      Presentation with transparencies</p> <p>The practical activities (4 hours) concern the dissection of fetuses of pets and farm animals (bovine, dog, cat, rabbit) and of their fetal membranes. The supervision is made by the professor and the assistant</p>
Content	<p>Study of gametogenesis, preimplantation development, placentation and the development of the main organs anlage</p> <p>Study of the development of the organs of the various systems (digestive, respiratory, uro-genital, vascular, nervous and locomotive)</p>
Bibliography	<p>Plus d'une vingtaine d'ouvrages disponibles pour consultation chez le titulaire</p> <p>Les deux références principales sont :</p> <ol style="list-style-type: none"> <li>1) Lehrbuch der Embryologie der Haustiere. Rüsse und Sinowatz. Ed. Paul Parey</li> <li>2) Veterinary Embryology. McGeady, Quinn, FitzPatrick and Ryan. . Ed Blackwell Publishing</li> </ol>
Faculty or entity in charge	VETE

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Veterinary Medicine	VETE1BA	3		