

ACADEMIC YEAR 2023/2024

General information	
Denominazione del Corso Integrato	<b>OBSTETRIC AND ANDROLOGICAL CLINIC</b>
Moduli didattici integrati	<b>Andrology; Obstetric clinic; Practical obstetric clinic activity.</b>
Corso di studio	Veterinary Medicine LM42
Anno di corso	V
ECTS	9 (lectures: 5 ECTS; practical training: 4 ECTS)
Lingua di erogazione	Italian
Periodo di erogazione	I 7- weeks period
Obbligo di frequenza	yes

Teacher	email	Phone
Annalisa Rizzo	annalisa.rizzo@uniba.it	080/5443881
Mario Cinone	mario.cinone@uniba.it	080/5443892
Giulio Guido Aiudi	giulioaiudi@uniba.it	080/5443826

Headquarters	Campus of Veterinary Medicine, S.P. 62 per Casamassima km 3, 70010 Valenzano
Virtual Headquarter	Microsoft Teams <a href="#">manca codice</a>
Tutoring (time and day)	Monday, Wednesday, and Thursday 13:30 – 15:30

Syllabus	
<b>Learning Objectives</b>	The learning objectives will consist in providing the theoretical and practical tools aimed at carrying out an obstetric-gynaecological-andrological examination, diagnosing some of the main pathologies of the female and male genital system and being able to carry out pharmacological and surgical therapy relating to the reproductive system.
<b>Course prerequisites</b>	Prerequisites: Obstetric and Reproductive Pathology; Veterinary Pharmacology and Toxicology. The student must have acquired knowledge of obstetrics, reproductive pathology and pharmacology and skills related to the use of drugs.



<p>Contents of the teaching module: <b>Obstetric Clinic</b></p> <p>Teacher: <b>Annalisa RIZZO</b></p> <p><b>Lectures</b> <b>ECTS: 3</b></p> <p><b>Hours: 39</b></p> <p><b>Practical activities</b></p> <p><b>ECTS: 1</b></p> <p><b>Hours: 20</b></p>	<p><b>The module concerns the area Clinical Sciences</b></p> <ul style="list-style-type: none"><li>➤ Introduction to the course: Description of the specific training objectives of the teaching, its place in the training of the Veterinarian and methods of teaching delivery, as well as the methods and criteria for assessing the knowledge, skills and minimum skills to be achieved.</li><li>➤ Dystocias in the different species: Classification of dystocias and modus operandi to solve them</li><li>➤ Caesarean section: Indications and modus operandi in the different species</li><li>➤ Complications of delivery in different species: postpartum pathologies and related medical and / or surgical therapies</li><li>➤ Involution of the uterus: Involution of the uterus and drugs that interfere with the process</li><li>➤ Metritis and pyometra: etiopathogenesis, diagnosis, prognosis and therapy of metritis and pyometra</li><li>➤ Pathologies of the ovary in different species: Pathologies of the ovary and related medical and / or surgical therapies</li><li>➤ Eclampsia and pseudo-pregnancy: etiopathogenesis, diagnosis, prognosis and therapy of eclampsia and pseudopregnancy.</li><li>➤ Drugs to induce abortion</li><li>➤ Ovariectomy and ovariohysterectomy: Anesthesia and modus operandi of the sterilization procedure</li><li>➤ Repeat breeder: etiopathogenesis, diagnosis, prognosis and therapy of repeat breeders.</li><li>➤ Reproductive management of cattle, horses, sheep and goats and pigs</li><li>➤ Basic principles of ultrasound examination and uses in reproduction</li><li>➤ Therapies used in the reproductive field</li></ul> <p>Obstetric-gynecological examination, initially on simulator models of bovine and later on bovines in different farms; ovariectomy and ovariohysterectomy on animals cadavers (dog and/or cats), after the students will be involved in the daily practice of the clinic and of the surgery, on pet animals, on farm animals, on equines and on unconventional animals.</p>
<p>Contents of the teaching module: <b>Andrology</b></p> <p>Teacher: <b>Mario CINONE</b></p> <p><b>Lectures</b> <b>ECTS: 2</b></p> <p><b>Hours: 26</b></p>	<ul style="list-style-type: none"><li>➤ The module concerns the area Clinical Sciences</li><li>➤ Andrological evaluation of the male: direct and instrumental clinical tests, laboratory methods for semen analysis</li><li>➤ Testicular biopsy, chromosomal aberration</li><li>➤ Congenital and acquired dysfunctions of the testis and epididymis</li><li>➤ Congenital and acquired anomalies of the penis, prepuce and scrotum</li><li>➤ Prostatitis, benign prostatic hyperplasia, seminal accessory gland infections</li><li>➤ Diagnostic and therapeutic approach to male infertility</li><li>➤ Impotentia coeundi and generandi.</li><li>➤ Impotentia coeundi e generandi.</li></ul>
<p>Contents of the teaching module:</p>	<p><b>The module concerns the area Clinical Sciences</b></p>

<p><b>Practical obstetric clinic activity</b></p> <p>Teachers: <b>Annalisa RIZZO</b> <b>Giulio Guido AIUDI</b> <b>Mario CINONE</b></p> <p><b>Practical activities</b> <b>ECTS: 3</b> <b>Hours: 60</b></p>	<ul style="list-style-type: none"> <li>➤ Obstetric, gynecological and andrological surgery of the main pathologies of the male and female genital system in dogs and cats; Ultrasound diagnostics of dog and cat genital pathologies; Oestrus monitoring techniques in dogs and cats; Evaluation of semen and artificial insemination techniques. Clinical therapies for the reproductive pathologies of small animals.</li> <li>➤ Obstetric-gynecological and andrological clinical visits in farm animals; dystocias resolution on bovine simulator; obstetric-gynecological-andrological surgery in the field; anesthetic and therapeutic protocols, for the various pathologies found in the field; health management of the main reproductive diseases of farm animals</li> </ul>
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<b>Biosecurity rules for the attendance of practical activities.</b>	The access to the clinics of the Veterinary Hospital is allowed only to students with greens. In farms and in activities with livestock, safety boots are mandatory. All students must have read the biosafety manual.
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<b>Personal study material</b>	
<b>Books and bibliography</b>	Noakes D.E., Parkinson T.J., England G.C.W. Arthur's Veterinary Reproduction & Obstetrics, 10th edition, 2018. Jackson P. G. G.: Manuale di Ostetricia Veterinaria. Ed. Grasso, Bologna, 1999. Feldman E.C., Nelson R.W. Canine and feline endocrinology and reproduction, 3rd edition, Saunders, 2003.
<b>Additional materials</b>	Lecture notes on TEAMS

<b>Work schedule</b>			
<b>Hours</b>			
<b>Total</b>	<b>Lectures</b>	<b>Hands on (Laboratory, working groups, seminars, field trips)</b>	<b>Self learning</b>
225	65	80	80
<b>CFU/ETCS</b>			
9	5	4	/

<b>Teaching strategy</b>	<p>The teaching will mainly consist of lectures which will be accompanied by active learning methods, such as problem solving and the study of clinical cases, in order to integrate information and facilitate learning.</p> <p>The entire teaching process will be implemented through iconic, verbal and graphic communication models, making use of the resources and educational technologies available, concerning different aspects of the obstetric and andrological clinic. Self Learning activities are provided through the use of videos available to students on the Teams platform and self-assessment tests provided by teachers.</p> <p>During the hours of practice, the students, divided into small groups, will use simulation models for rectal explorations and dystocia, to facilitate the acquisition of skills and competences. In addition, students will perform gonadectomy surgeries on animal corpses (dogs and / or cats) beforehand and, subsequently, will be involved in the daily practice of the clinic and sector surgery, both on small animals and on livestock animals, on equines and unconventional animals. Students will also carry out laboratory activities for the evaluation of semen and the cycle of females; hormonal and oxidative state dosages.</p> <p>The practical activities will be held in the clinics, laboratories and stables of the</p>
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	<p>obstetric clinic section of the Veterinary Hospital, in the teaching laboratory and at the farm.</p> <p>At the beginning of the course, students will be divided into groups of 8, for the development of in-depth papers on topics related to the course.</p> <p>During all hours of practice, students will be followed and guided by the teacher and collaborators.</p>

<b>Expected learning outcomes</b>	
<b>Knowledge and understanding on:</b>	<p>At the end of the course, the student will acquire knowledge and understanding of:</p> <ul style="list-style-type: none"> <li>• etiology, pathogenesis, clinical signs, diagnosis and treatment of reproductive diseases of the most common animal species (DOC 2.5)</li> <li>• Responsible use of drugs, including the use of antimicrobials (DOC 2.8)</li> </ul>
<b>Applying knowledge and understanding on:</b>	<p>At the end of the course, the student must be able to:</p> <ul style="list-style-type: none"> <li>• Apply the principles of biosecurity correctly (DOC 1.28)</li> <li>• Collect, store and transport semen samples, select appropriate diagnostic tests, interpret and understand the limitations of test results (DOC 1.21)</li> <li>• Conduct a thorough clinical examination and demonstrate ability in clinical decision making (DOC 1.17).</li> <li>• Understand and apply principles of clinical governance, and practise evidence-based veterinary medicine (DOC 1.9).</li> <li>• Understand the contribution that imaging and other diagnostic techniques can make in achieving a diagnosis. Use basic imaging equipment and carry out an examination effectively as appropriate to the case, in accordance with good health and safety practice and current regulations. (DOC 1.23)</li> <li>• Develop appropriate treatment plans and administer treatment in the interests of the animals under their care with regard to the resources available (DOC 1.18).</li> <li>• Prescribe and dispense medicines correctly and responsibly in accordance with legislation and latest guidance (DOC 1.26).</li> <li>• Communicate clearly and collaborate with referral and diagnostic services, including providing an appropriate history (DOC 1.22)</li> </ul>
<b>Soft skills</b>	<p><b>Making informed judgments and choices</b></p> <ul style="list-style-type: none"> <li>• Be able to review and evaluate literature and presentations critically (DOC 1.8).</li> <li>• Understanding of, and competence in, the logical approaches to both scientific and clinical reasoning, the distinction between the two, and the strengths and limitations of each (DOC 2.1)</li> <li>• Ability to critically analyze the operating procedures of a process (diagnostic, preventive, therapeutic ...)</li> <li>• Ability to propose solutions in problematic situations</li> </ul> <p><b>Communicating knowledge and understanding</b></p> <ul style="list-style-type: none"> <li>• Work effectively as a member of a multi-disciplinary team in the delivery of services (DOC 1.6.)</li> <li>• Communicate effectively with clients, the public, professional colleagues and responsible authorities, using language appropriate to the audience concerned and in full respect of confidentiality and privacy (DOC 1.4)</li> </ul> <p><b>Capacities to continue learning</b></p> <ul style="list-style-type: none"> <li>• Demonstrate an ability of lifelong learning and a commitment to learning and professional development. This includes recording and reflecting on</li> </ul>

	professional experience and taking measures to improve performance and competence (DOC 1.13)
<b>Summary of the competences that the integrated course concurs to let the students acquire (Day One Competences) as scheduled by EAEVE</b>	<b>Competences:</b> 1.4 1.6 1.8 1.9 1.13 1.17 1.18 1.21 1.22 1.23 1.26 1.28 2.1 2.5 2.8

<b>Assessment and feedback</b>	
<b>Methods of assessment</b>	The examination of the integrated course of "Obstetrics and Andrology Clinic" allows for the acquisition of 9 of the credits required by the study plan. The exam includes a partial test of the modules of "Obstetric Clinic", "Andrology" and "Practical obstetric clinic activity". The ECTSs are considered acquired only after passing the three modules and registering on the ESSE3 portal.
<b>Evaluation criteria</b>	<ul style="list-style-type: none"> <li>• Knowledge and understanding: The verification of the results achieved will be conducted: <ul style="list-style-type: none"> <li>- during the course, through: i) flip teaching sessions in which the student's autonomy of judgment and his ability to make use of previously learned concepts will be assessed;</li> <li>- at the end of the course, through the oral final exam which will verify the acquisition of the required knowledge as detailed in the course objectives.</li> </ul> </li> <li>• Applied knowledge and understanding: <ul style="list-style-type: none"> <li>- Ability to make links between different disciplines and provide appropriate examples</li> <li>- Ability to evaluate a clinical picture and prepare a diagnostic algorithm</li> <li>- Ability to recognize reproductive problems and must be able to intervene from a medical and surgical point of view.</li> </ul> </li> <li>• Autonomy of judgment: <ul style="list-style-type: none"> <li>- analytical skills and critical sense with respect to the topics studied</li> <li>- global and unitary assessment ability of the most common clinical situations of farm animals and pets</li> </ul> </li> <li>• Communication skills: <ul style="list-style-type: none"> <li>- ability and clarity of presentation</li> <li>- expressive appropriateness, with particular reference to obstetric-gynecological-andrological terminology.</li> </ul> </li> <li>• Ability to learn: <ul style="list-style-type: none"> <li>- Ability to rework knowledge and transfer it to new and different situations</li> </ul> </li> </ul>
<b>Criteria for assessment and</b>	The results of the Obstetric Clinic, Andrology and Practical Clinical Obstetric Activity

<p><b>attribution of the final mark</b></p>	<p>tests will contribute to the definition of the final grade of the Obstetrics and Andrology Clinic exam.</p> <p>The final grade is the result of the collegial judgment relating to the three partial tests in which the student must demonstrate that he/she has acquired a critical sense of the topics studied. The final evaluation, expressed out of thirty, will be considered passed with a grade equal to or greater than 18 and will take into consideration not only the accuracy of the answer, but also the communication skills, clarity of presentation, disciplinary competence, and the level of detail.</p> <p>The oral exam is usually inspired by the presentation of a clinical case, supported by the evaluation of images and / or videos. The student is asked to collect the anamnesis, formulate a list of differential diagnoses and to discuss which elements are in favor and which against the various hypotheses advanced, and to suggest the ways in which to reach the definitive diagnosis and the setting of a possible therapy. During the exam, students should know how to perform rectal and vaginal exploration on bovine simulators, recognize dystocia present and know how to resolve it. In addition, students will have to discuss the in-depth papers developed during the course. The same will be evaluated by the teacher before the exam and will contribute to the final grade.</p> <p>Laudem will be considered only if the student, in addition to responding adequately to all the questions, argues them with extreme precision, excellent exposure and appropriate use of terminology.</p> <p>Particular attention is paid to the use of an adequate vocabulary and to the student's ability to think transversally and to connect the notions of the various parts of the teaching with each other and with the information deriving from the courses of previous years.</p>
<p><b>Altro</b></p>	