

<b>Academic subject: MANAGEMENT TECHNIQUES OF THE SEA FAUNA UNDER TREATMENT</b>			
<b>Degree Class:</b> L38		<b>Degree Course:</b> Animal Science	
		<b>Academic Year:</b> 2020/2021	
		<b>Kind of class:</b> Optional	
		<b>Year:</b> III	
		<b>Period:</b> 2° semester	
		<b>ECTS: 3</b> divided into <b>ECTS lessons: 2</b> <b>ECTS</b> <b>exe/lab/tutor: 1</b>	
<b>Time management, hours, in-class study hours, out-of-class study hours</b> lesson: 20 h    exe/lab/tutor: 25 h    n-class study: 0    out-of-class study: 30 h			
<b>Language:</b> Italian		<b>Compulsory Attendance:</b> yes	
<b>Subject Teacher:</b> Delia Franchini,		<b>Office:</b> Department of Medicina Veterinaria Room          Floor 0	
<b>Co-teacher</b> Carmela Valastro		<b>Office days and hours:</b> Prof D. Franchini: from Monday to Friday 9: 30-16: 30 by appointment via e- mail Prof C. Valastro: Tuesday and Thursday from 2.30 pm to 4.30 pm by appointment via e-mail	
<b>Prerequisites:</b> Skills in: • Biosecurity and health management • General Pathology and Physiopathology • Medicines legislation, pharmacovigilance and toxicology			
<b>Educational objectives:</b> The course aims to provide the basic knowledge for the correct technical management of sea turtles admitted to recovery and rehabilitation centers following accidental fishing, stranding or recovered adrift. The main objectives of the course will be to provide the student with the elements for a correct approach to these protected marine animals, starting from their containment, from the knowledge of the biosecurity rules for handling in compliance with the protection of animals and people.			
<b>Expected learning outcomes (according to Dublin Descriptors)</b>		<p><b>Knowledge and understanding:</b> the student must acquire the basics of anatomy and physiology of sea turtles, the biosecurity standards in the approach to protected marine fauna, knowledge of the issues related to the management of these animals under treatment.</p> <p><b>Applying knowledge and understanding:</b> the student must acquire the correct manual skills and procedures for the containment of hospitalized marine fauna, for the management of spontaneous, assisted and force feeding, for the management of the housing tanks, for the monitoring of vital activities and the correct drafting of the records clinics. Removal of ectoparasites, epibionts and epiphytes from the surface of animals, positioning for radiographic, ultrasound and CT examinations by implementing containment measures to minimize stress, assisting the veterinarian in taking blood samples, cloacal and ocular swabs, management of surgical instrumentation during wound curettage and minor surgery, preparation and administration of food by mouth or by tube feeding.</p> <p><b>Making judgements:</b> At the end of the course, students will be able to assist the veterinarian in clinical visits, in carrying out blood sampling and microbiological swabs, in positioning for the execution of ultrasound and CT radiographic examinations, in the management of surgical instruments during wound curettage and minor surgery.</p>	

**Communication:**

at the end of the course the student will acquire the technical language and the communication tools to be able to interact with the operators who deal with the management of sea turtles

**Lifelong learning skills:** at the end of the course the student will be able to autonomously study the issues concerning the management of sea turtles

**Course program**

Rules governing the protection of sea turtles • Basics of anatomy of sea turtles • Basics of physiology of sea turtles • Biosecurity standards for the management of marine reptiles • Containment of sea turtles • Compilation of medical records • Monitoring of the main vital parameters (respiratory rate, temperature, application of electrodes for ecg) • Assessment of the state of nutrition • Evaluation and removal of ectoparasites, epibionts and epiphytes from the surface of animals • Evaluation of the main reflexes and reactivity of the animals • Evaluation of the movement of animals out of the water and in the water, of normal or altered buoyancy and of the ability to dive • Management of relaying tanks (water quality, water salinity calculation) • Preparation and administration of food by mouth or by tube feeding • How to perform microbiological, cloacal, ocular and wound swabs, provide assistance for blood sampling • Cleaning and disinfection of wounds • Positioning for radiographic, ultrasound and CT examinations • Management of surgical instruments during wound curettage and minor surgery. • Assistance to the veterinarian during turtle anesthesia

**Teaching methods:** • Frontal lessons with the use of pwpt and video • Exercises at the DiMeV Sea Turtle Clinic • streaming lessons

**Auxiliary teaching:** White coat or disposable coat, disposable gloves, cap or hair tied, mask, notebook and pen

**Assessment methods:** Oral test that will cover the topics of the program and practical exercises. The final exam of the module of "Management techniques of marine fauna under treatment" contributes to the definition of the final grade of the exam of "Management and recovery techniques of protected marine species" for 3/5.

**Bibliography:**

- Bibliographic material provided by the teacher
- Sea Turtle Health & Rehabilitation di C. Manire, T. Norton, B. Stacy, C. Innis, C. Harms