

Postgraduate Certificate

Ophthalmology in Exotic Animals





Postgraduate Certificate Ophthalmology in Exotic Animals

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/veterinary-medicine/postgraduate-certificate/ophthalmology-exotic-animals

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01

Introduction

Pet ownership has increased exponentially over the last decade. This increase also includes a more abundant presence of exotic species, and consequently the demand for their veterinary care. Ophthalmologic specialization is rare in this type of patient and is of great interest to veterinarians. This program gathers all the necessary knowledge in the field; a unique opportunity to get up to date and compete among the best.





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Study a program that will set you apart from other professionals, with a specific and highly formative Postgraduate Certificate in Ophthalmology in Exotic Animals"

It is increasingly more common to see exotic animals in daily clinical practice. For this, the module on Ophthalmology in Exotic Animals covers a broad spectrum of species that the student may encounter

During the Postgraduate Certificate, the anatomy of each species and the main alterations that affect them will be covered, whereby students will learn everything they need to establish a correct diagnosis and apply fast and efficient treatment, thereby improving patient prognosis

Management of different species and their pathologies will be addressed, including exploration of the anatomical and physiological peculiarities of the most common varieties, as well as the most advanced ways of working with such factors

During the program, students will also review the therapeutic methods applied with exotic species, in order to have better patient management and thereby optimize results. Specific care that customers will value as high competence

This **Postgraduate Certificate in Ophthalmology in Exotic Animals** contains the most complete and up-to-date scientific program on the market. Its most important features include:

- ♦ Case studies presented and developed by experts in Veterinary Ophthalmology
- ♦ Graphic, schematic, and practical contents created to provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



A comprehensive program that will propel your career to a much higher level of proficiency, with ease and efficiency"

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Learn about the physiology and anatomy of ophthalmologic pathologies in exotic animals with this Postgraduate Certificate"

The program's teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersion training programmed to train in real situations

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts

Through the efficiency of a study system created for online teaching, this program is the best option to boost your professional growth.

Studies that will offer you the knowledge from a unique and highly effective perspective.



02 Objectives

We have the most complete and up-to-date academic program on the market. After completing the 180 hours of study of this Postgraduate Certificate, professionals will be able to practice in this exciting field with total precision and from a perspective based on maximum scientific rigor, the most relevant studies and the latest advances





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An intensive and comprehensive program that includes the latest developments in exotic animal eye care”



General Objectives

- Explain fundamentals of ocular anatomy in different species
- Establish an exploratory protocol for each exotic species
- Generate the bases of different pathologies and be able to propose the best treatment for each species

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Don't stay on the side-lines of developments in this field and offer your patients the most comprehensive and specialized exotic animal care”





Specific Objectives

- ◆ In-depth study of the ocular anatomical characteristics of different exotic species
- ◆ Analyze the most appropriate examination methods for each species
- ◆ Generate a baseline of ocular anatomical features to be able to discern the most subtle symptoms that may be causing a pathology
- ◆ Present different therapeutic routes, in order to propose the most appropriate treatment according to species
- ◆ Develop abilities for the surgical approach to different species

03

Course Management

By learning directly from veterinary ophthalmology professionals, students will acquire solid knowledge in this specialty. For this reason, this Postgraduate Certificate has a highly qualified team with extensive experience in the sector, which will offer the best possible resources for students in the development of their skills during the course. This way, veterinarians will have all that is required to specialize at an international level in a booming sector that will catapult them to professional success





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*The experience of professionals
in the field, applied to an
exceptional education process"*

International Guest Director

Dr. Caryn Plummer is a true international reference in the field of Veterinary Medicine. Her research interests include corneal wound healing, glaucoma and other aspects of clinical ophthalmology in animals. She has also developed different models of diseases that afflict the eyesight of pets.

The lectures of this expert are widely recognized and expected in the academic framework, developing many of these in the United States, the University of Copenhagen and other parts of the world. She is also a member of the School of Veterinary Medicine at the University of Florida.

Other lines in which this expert has completed her professional development are Pharmacology and the use of medical devices through administration and ocular penetration. In the same way, she has deepened her knowledge in Equine Corneal Disease, Primary Open Angle Glaucoma in the Dog and other immune-mediated pathologies. In turn, Plummer has ventured into the application of new surgical techniques for the healing of corneal wounds, facial reconstruction of animal eyelids and the prolapse of nictitating glands. On these topics he has published a large number of articles in leading journals such as Veterinary ophthalmology and American journal of veterinary research.

Dr. Plummer's professional development has also been intensive and regular. Her specialization in Veterinary Ophthalmology was developed at the University of Florida. She also completed her advanced education in Small Animal Medicine and Surgery at Michigan State University.

On the other hand, this scientist has received several awards, among them the Clinical Researcher of the Year Award, granted by the Florida Veterinary Medical Association. She is also the author of Gelatt's classic textbook Veterinary Ophthalmology and an associate editor.



Dr. Plummer, Caryn

- Research Fellow in Veterinary Ophthalmology at the University of Florida
- Veterinary Ophthalmologist specialized in Glaucoma and Corneal Disease in Small Animals.
- Founder and Secretary/Treasurer of the International Consortium for Equine Ophthalmology
- Treasurer of the Consortium for Animal Vision Foundation
- Author of the classic Gelatt textbook Veterinary Ophthalmology
- Diplomate of the American College of Veterinary Ophthalmology
- Residency in Comparative Ophthalmology at the University of Florida
- Practical Instruction in Veterinary Medicine at the University of Michigan
- BA degree from Yale University
- Member of the Florida Veterinary Medical Association



Thanks to TECH, you will be able to learn with the best professionals in the world"

Management



Dr. Fernández Más, Uxue

- ♦ Veterinary Ophthalmology in the IVO
- ♦ Responsible for Ophthalmology at Vidavet
- ♦ Bachelor's Degree in Veterinary from the University of Zaragoza
- ♦ Postgraduate in Ophthalmology Veterinary Medicine, Autonomous University of Barcelona
- ♦ Lecturer in Introductory Courses in Veterinary Ophthalmology for the Vidavet group
- ♦ Member of SEOVET and AVEPA Ophthalmology group
- ♦ Presentations at SEOVET, ECVO and GTA of AVEPA Congresses
- ♦ Junior Resident at Oftalvet Mexico

Professors

Dr. Iaquinandi Murtagh, Agustina

- ♦ Iaquinandi Veterinary Ophthalmologic Center, Olavarría 142, Quilmes, Buenos Aires, Argentina
- ♦ Laboratory of Retinal Neurochemistry and Experimental Ophthalmology, Dept. of Human Biochemistry, Faculty of Medicine CEFyBO, U.B.A./CONICET Paraguay
- ♦ Bachelor's Degree, Faculty of Sciences Veterinaries, UNLP B.Sc. in Veterinary Medicine
- ♦ Course in Equine Ophthalmology and Companion Animals
- ♦ Postgraduate Course in Veterinary Ophthalmology, organized by the Department of Animal Medicine and Surgery Autonomous University of Barcelona Bellaterra (Cerdanyola del Vallès)
- ♦ Advanced Theoretical-Practical Course on Ocular Ultrasound Argentinian Association of Ophthalmology (SAO)

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*During your apprenticeship,
you will be accompanied by
professionals of national
and international stature”*



04

Structure and Content

A tour through the most advanced, exhaustive and innovative contents in the field make this program the most interesting offer on the academic market. After enrolling in this program, students will be provided with multimedia materials and will gain a practical and theoretical insight that will help them learn everything they need to become successful veterinary ophthalmologists. A unique academic opportunity based on the best teaching methodology that will elevate professionals to the top of their careers



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Increase your care capacity in just a few weeks, and with it, your professional competitiveness”

Module 1. Ophthalmology in Exotic Animals

1.1. Ophthalmology in Exotic Animals

- 1.1.1. Environment
- 1.1.2. Assessment of Vision
- 1.1.3. Comparative Retinal Anatomy
- 1.1.4. Restrictions
- 1.1.5. Visual Reflexes
- 1.1.6. Exotic Animal Medical Therapy
- 1.1.7. Surgical Procedures in Exotic Animals

1.2. Rabbits

- 1.2.1. Anatomy
- 1.2.2. Exploration
- 1.2.3. Orbital Diseases
- 1.2.4. Palpebral Diseases
- 1.2.5. Conjunctival Pathologies
- 1.2.6. Nasolacrimal System Diseases
- 1.2.7. Corneal Pathology
- 1.2.8. Cataracts
- 1.2.9. Glaucoma

1.3. Guinea Pig

- 1.3.1. Anatomy
- 1.3.2. Palpebral Diseases
- 1.3.3. Conjunctival Pathologies
- 1.3.4. Corneal Pathologies
- 1.3.5. Cataracts
- 1.3.6. Heterotopic Bone

1.4. Rats and Mice

- 1.4.1. Anatomy
- 1.4.2. Exploration
- 1.4.3. Conjunctival and Nasolacrimal System Pathologies
- 1.4.4. Corneal Pathologies
- 1.4.5. Cataracts
- 1.4.6. Uveal Pathologies
- 1.4.7. Posterior Segment Abnormalities

1.5. Wild Animals

- 1.5.1. General Characteristics
- 1.5.2. Examination (Daytime vs. Night-Time)
- 1.5.3. Complementary Tests
- 1.5.4. Medical and Surgical Restrictions
- 1.5.5. Administration Routes
- 1.5.6. Surgical Procedures (Species Differences)
- 1.5.7. Postoperative Care

1.6. Ferrets

- 1.6.1. Anatomy
- 1.6.2. Exploration
- 1.6.3. Orbital Diseases
- 1.6.4. Conjunctival Pathologies
- 1.6.5. Corneal Pathologies
- 1.6.6. Cataracts
- 1.6.7. Uveal Pathology
- 1.6.8. Glaucoma

1.7. Other Exotic Mammals

- 1.7.1. Hamsters
- 1.7.2. Chipmunks
- 1.7.3. Gerbils
- 1.7.4. Degus
- 1.7.5. Hedgehogs

1.8. Birds

- 1.8.1. Anatomy
- 1.8.2. Exploration
- 1.8.3. Trauma
- 1.8.4. Palpebral Diseases
- 1.8.5. Conjunctival Pathologies
- 1.8.6. Corneal Pathologies
- 1.8.7. Uveal Pathology
- 1.8.8. Cataracts
- 1.8.9. Horner Syndrome
- 1.8.10. Enucleation

- 1.9. Reptiles Anatomy and Physiology
 - 1.9.1. Anatomy and Physiology
 - 1.9.2. Speculum and Its Pathologies
 - 1.9.3. Microphthalmia and Anophthalmia
 - 1.9.4. Megaglobus
- 1.10. Reptiles Pathologies
 - 1.10.1. Hypovitaminosis A in Tortoises
 - 1.10.2. Palpebral Diseases and Dacryocystitis
 - 1.10.3. Conjunctival Pathologies
 - 1.10.4. Corneal Pathologies
 - 1.10.5. Uveal Pathologies
 - 1.10.6. Cataracts
 - 1.10.7. Posterior Segment Abnormalities
- 1.11. Fish and Amphibians
 - 1.11.1. Fish
 - 1.11.1.1. Anatomy
 - 1.11.1.2. Exploration
 - 1.11.1.3. Ocular Pathology
 - 1.11.2. Amphibians
 - 1.11.2.1. Anatomy
 - 1.11.2.2. Exploration
 - 1.11.2.3. Ocular Pathology



Get up to date and compete with more possibilities through this high-impact program that will boost your professional growth"

05 Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, in an attempt to recreate the actual conditions in a veterinarian's professional practice.

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Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”

The effectiveness of the method is justified by four fundamental achievements:

1. Veterinarians who follow this method not only manage to assimilate concepts, but also develop their mental capacity through exercises to evaluate real situations and knowledge application
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. The feeling that the effort invested is effective becomes a very important motivation for veterinarians, which translates into a greater interest in learning and an increase in the time dedicated to working on the course.



Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.



Veterinarians will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.

At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology more than 65,000 veterinarians have been trained with unprecedented success in all clinical specialties, regardless of the surgical load. Our teaching method is developed in a highly demanding environment, where the students have a high socio-economic profile and an average age of 43.5 years.

Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Latest Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current and procedures of veterinary techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

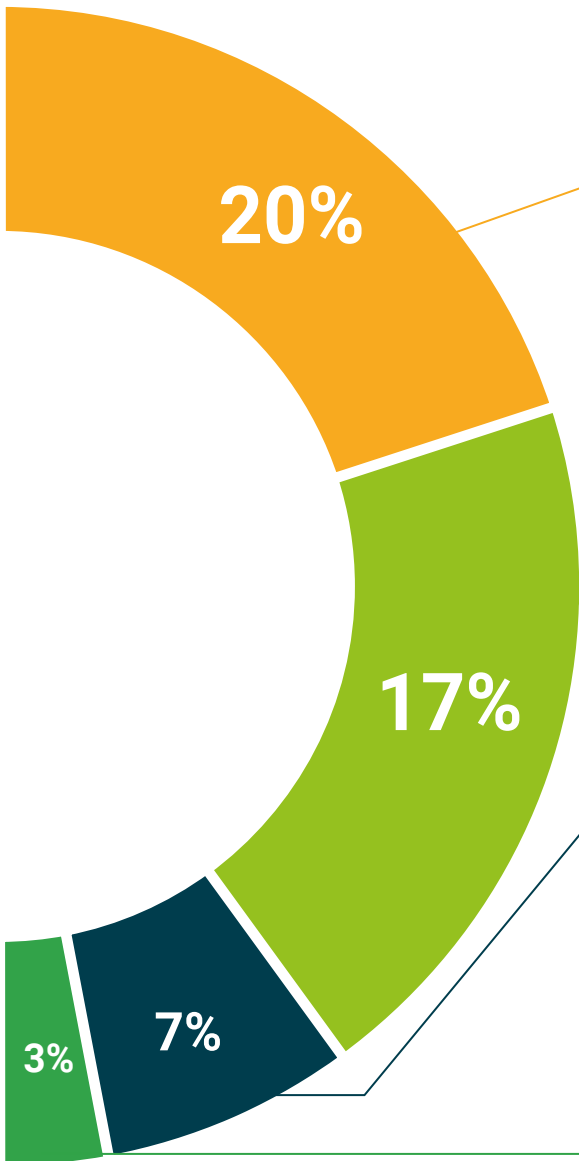
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



06 Certificate

The Postgraduate Certificate in Ophthalmology in Exotic Animals guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University





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Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”

This program will allow you to obtain your **Postgraduate Certificate in Ophthalmology in Exotic Animals** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Ophthalmology in Exotic Animals**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development language
classroom



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