

UNIVERSITY OF COPENHAGEN  
FACULTY OF HEALTH AND MEDICAL SCIENCES

# MASTER OF COMPANION ANIMAL CLINICAL SCIENCE





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The Master of Companion Animal Clinical Science is an accredited postgraduate programme designed for veterinarians who wish to pursue new challenges and knowledge. The Master is offered by the University of Copenhagen in close collaboration with The Danish Veterinary Association.

## **FROM NEWEST RESEARCH TO EVIDENCE-BASED PRACTICE TAUGHT BY LEADING INTERNATIONAL FACULTY**

As a Master student you will develop your skills to apply evidence-based clinical decision making as well as plan

and execute specialized diagnostic work up, procedures and therapeutic strategies.

You will be introduced to the newest knowledge by our teaching faculty consisting of EBVS and ABVS boarded diplomates and leading national and international researchers and clinicians. In all teaching the focus is on how you can apply your new skills directly in your daily work.

## **HANDS-ON LEARNING**

As a Master student you will be taught in small groups including substantial practical exercises. You will get hands-on experience with new techniques

and best practice approaches including in vivo training. The practical's, are set in state-of-the-art facilities at the University Hospital for Companion Animals.

Approved by:



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"It is evidence-based and systematic, but you can go straight to the clinic the next day and implement what you have learnt, which is very valuable."

- Pia Ammitzbøll, Veterinarian,  
AniCura, Københavns Dyrehospital



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“There has been focus on acquiring the newest knowledge. This gives me tools I can use in my practice and continue to work with after the programme.”

- Anders P. Jensen, Veterinarian at AniCura Københavns Dyrehospital.



# PROGRAMME CURRICULUM

Compulsory part – “Fagdyrlæge” (4 course modules)	30 ECTS
Specialization track (3 course modules)	18 ECTS
Master’s project	12 ECTS

“The lecturers have a high professional level and it is a great hospital. It is also brilliant that we have external lecturers.”

- Vibeke Fosse, Veterinarian, Norway





# COMPULSORY MODULES

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## **Veterinary Methodology and Paraclinical Skills**

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## **Companion Animal Internal Medicine and Specialty Cases, Systematic Diagnostic Decision Making**

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## **Companion Animal Surgery – Good Surgical Practice**

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## **Dedicated Companion Animal Clinical Practice**

4 weeks clinical externship at a national or international university veterinary teaching hospital

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## **THE MASTER PROGRAMME IS NATIONALLY AND INTERNATIONALLY ACCREDITED AND PREAPPROVED**

The full Master education is approved as part of the credentials towards the Danish “Specialdyrlæge” -title (Bekendtgørelse 56901 af 24.05.2017, §5, stk 2)”

The 4 compulsory courses are preapproved as the Danish Certificate in Small Animal Diseases (in Danish, “Fagdyrlæge vedr. sygdomme hos hunde og katte”) by the Danish Veterinary Association (DDD) and accredited by VetCEE (Veterinary Continuous Education in Europe, [www.fve.org/vetcee/](http://www.fve.org/vetcee/)).

Module 1-3 are preapproved as 5 courses towards the Swedish specialist in diseases of dogs and cats (in Swedish STEG 1) by the Swedish Society of Veterinary Medicine (SVS).

Module 1-3 are preapproved as 148 hours of course activities towards the Norwegian specialist in Diseases of dogs and cats by The Norwegian Veterinary Association (DNV).

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“I believe everybody should have a stay like this.”

- Astrid Bjørn Lund , Veterinarian at Egtved Dyrlægerne



# SPECIALIZATION TRACKS

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## INTERNAL MEDICINE

Comprehensive evidence-based theoretical and clinical best-practice approaches applicable for direct implementation at specialized companion animal clinics.

- Module I: Endocrine and Urological Diseases
- Module II: Gastrointestinal and Respiratory Diseases
- Module III: Hematological, Infectious and Critical Medical Diseases

Practical sessions including advanced diagnostic imaging, endoscopy, ultrasonographic and radiographic interpretation, and practical and diagnostic cytology including advanced interpretation with regards to hematological, infectious and critical medical diseases.

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## SURGERY

Strong emphasis on practical in vivo wet labs and evidence and case-based approaches applicable for implementation at specialized companion animal clinics.

- Module I: Soft Tissue Surgery
- Module II: Orthopedic Surgery
- Module III: Cancer Surgery

Practical sessions including gastro-intestinal, hepatobiliary and urinary tract surgery, thoracic surgery, fracture biomechanics, surgical complications, hip joint disorders, knee joint and patellar disorders and surgical management

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of fibrosarcoma, osteosarcoma, oral cancer, mastocytoma, mammary cancer and reconstructive surgical techniques used for cancer patients.

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## ONCOLOGY

Advanced level expertise in diagnostic work up including staging and grading of the oncology patient, treatment planning and multimodality management of companion animal cancer patients.

- Module I: Medical Oncology I
- Module II: Medical Oncology II
- Module III: Cancer Surgery

Practical sessions including medical treatment sessions, advanced interpretation labs in cytology and hematology, surgical management of fibrosarcoma, osteosarcoma, oral cancer, mastocytoma, mammary cancer and reconstructive surgical techniques used for cancer patients.

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## CARDIOLOGY

Comprehensive theoretical and practical training relevant to practicing cardiology in a specialized companion animal practice setting.

- Module I: Applied Clinical Cardiology
- Module II: Diagnostic Cardiology
- Module III: Advanced Clinical Cardiology

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Practical sessions and case-based theoretical evidence-based training with diagnostics and management of the cardiac patient.

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## NEUROLOGY

Advanced level of expertise in neuro-diagnostic testing, detection and localization of lesions in the central and peripheral nervous system and treatment management and prognosis in a specialized companion animal practice setting.

Module I: Applied Clinical Neurology  
Module II: Diagnostic Clinical Neurology  
Module III: Advanced Clinical Neurology

Practical sessions including interpretation of computed tomography, magnetic resonance imaging and cerebrospinal fluid examination (collection, preparation and cytology).

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## DERMATOLOGY

Comprehensive theoretical and clinical knowledge relevant to practice dermatology in a specialized companion animal practice setting.

Module I: Applied Clinical Dermatology  
Module II: Diagnostic Clinical Dermatology  
Module III: Advanced Clinical Dermatology

Practical sessions including cytological interpretation, IgE serum test- and intra-dermal test assessment, CT and videotoscopic evaluation of the ear canal and basic description and interpretation of dermatohistopathology.

## OPHTHALMOLOGY

Advanced level expertise including diagnostic testing and work up of the ophthalmic patient, treatment planning and treatment regimes in a specialized companion animal practice setting.

Module I: Basic Companion Animal Ophthalmology  
Module II: Advanced Companion Animal Ophthalmology  
Module III: Companion Animal Ocular Surgery

Practical sessions including biomicroscopy, ophthalmoscopy, advanced interpretation of cytology and histopathology, diagnostic imaging and electroretinography. Atraumatic microsurgical techniques and reconstructive surgery.

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## ODONTOLOGY

Comprehensive evidence-based theoretical and clinical best-practise approaches applicable for direct implementation in a specialized companion animal practice setting.

Module I: Applied Clinical Companion Animal Odontology  
Module II: Advanced Clinical Companion Animal Odontology  
Module III: Companion Animal Dental, Maxillofacial and Oral Surgery, and Diagnostic Imaging

Practical sessions in complex clinical decision making, diagnostic imaging, patient therapy modalities and management at an advanced level in dental, maxillofacial and oral surgery in a specialized companion animal practice setting.

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Courses in Internal Medicine, Surgery and Oncology preapproved by



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I have been motivated to seek more knowledge in my daily life in an attempt to work more evidence-based.”

- Sanne Ross Sørensen, Anicura Gistrup Dyrehospital.



Hospital for Companion Animals at The University of Copenhagen

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## PROGRAMME STRUCTURE

The Master programme is organised to fit into the busy schedule of a companion animal veterinarian. Recommended length of study is 4 years.

The programme consists mainly of short intensive courses at Frederiksberg Campus, University of Copenhagen.

## ADMISSION CRITERIA

We welcome applicants with a degree in Veterinary Medicine and at least two years of relevant work experience in Companion Animal Practice.

If you are a Scandinavian approved specialist in diseases of dogs and cats (fagdyrlæge/Steg 1/Norsk specialist/Pieneläinsairauksien erikoiseläinlääkäri) you can enrol directly at a specialisation track.

## APPLICATION DEADLINE

Admission deadline 1 May.  
The Master welcomes new applicants every second year.

## FOR FURTHER INFORMATION

Go to: [www.cacs.ku.dk](http://www.cacs.ku.dk)  
or contact: [master@sund.ku.dk](mailto:master@sund.ku.dk)

## ACCREDITED BY

Veterinary Continuous Education in Europe (VetCEE) and the Danish Accreditation Institution ACE Denmark.



ACE Denmark

## PREAPPROVALS

The Norwegian Veterinary Association, The Danish Veterinary Association and the Swedish Society of Veterinary Medicine

