



# Program Outcomes Master Veterinary Science 2020

## INTRODUCTION

The Master's program in Veterinary Medicine in Utrecht leads to generally qualified veterinarians. By obtaining the veterinary diploma, the veterinarian meets the requirements as stated in the Animal Act and follows the EU Directive on the recognition of professional qualifications (Directive 2013/55 / EU). In 2006, the program outcomes for the Veterinary Curriculum were first described (Curriculum Veterinary Medicine Program Outcomes, January 2006). These program outcomes have been revised in 2008-2009.

At the beginning of 2017, the dean of the Faculty of Veterinary Medicine commissioned a committee to review these program outcomes in line with international and national developments in society and the professional field and the related strategic choices of the Faculty of Veterinary Medicine (see Faculty Strategic Plan 2017-2021).

In this document the program outcomes were formulated on the basis of the competence framework of the American Association of Veterinary Medical Colleges (AAVMC) and the framework of the Veterinary Professional (VetPro<sup>1</sup>) developed within Utrecht University. The program outcomes comply with the guidelines set by the European Association of Establishments for Veterinary Education (EAEVE), the European Coordination Committee for Veterinary Training (ECCVT), the American Veterinary Medical Association (AVMA) and the Royal College of Veterinary Surgeons (RCVS).

The program outcomes are described at two levels: competence domains and competencies. The translation of the program outcomes into concrete learning objectives and Entrustable Professional Activities (EPAs) takes place at program and course level<sup>2</sup>. The starting point is that every veterinarian in Utrecht is trained to a general basic level and parts, through individual choices for program and track, to a more advanced level.

## PROGRAM OUTCOMES MASTER 2020 COMMITTEE:

- **dr. Geart Benedictus**, DVM;
- **dr. Harold Bok**, DVM, University Lecturer, Assistant Professor and Researcher of Veterinary Education Quality;
- **Len Dijstelbloem MSc MEd**, (secretary), DVM, Quality Assurance Coordinator
- Faculty of Veterinary Medicine;
- **dr. Robert Favier**, DVM, (former) Coordinator of the Master Program at the Department of Companion Animal Health;
- **Iris Hummel BSc**, Veterinary Medicine Student;
- **dr. Gerrit Koop**, DVM, Assistant Professor of Farm Animal Health;
- **prof. dr. Wim Kremer**, (chair), DVM, Vice Dean of Education and Director of the Master Veterinary Medicine;
- **drs. Maria de Nijs**, DVM and part-time Teacher at the Department of Companion Animal Health;
- **prof. dr. René van Weeren**, DVM, Chair of the Equine Health Department.

<sup>1</sup> Bok HGJ, Jaarsma DADC, Teunissen PW, Van der Vleuten CPM, Van Beukelen P: Development and validation of a competency framework for veterinarians. JVME 2011, 38:262-269.

<sup>2</sup> Within the Master's program of Veterinary Medicine, the student can choose from three programs: Companion Animal Health, Farm Animal Health and Veterinary Public Health or Equine Health. Within these three programs, students can profile themselves in multiple directions: a clinical profile, a profile in the field of One Health, a specific research profile from the research fields of Life Sciences, a profile specifically aimed at animal welfare, a profile focused on consumers and chain, or an individual profile focused on management, policy or entrepreneurship.

## THE UTRECHT VETERINARIAN

The veterinarian graduating from the Master of Veterinary Science in Utrecht:

- is a qualified veterinary general practitioner;
- has followed advanced training in specialist areas of veterinary science according to personal interests;
- works effectively in an interdisciplinary and international setting or network;
- has developed higher-order thinking skills and behaves according to scientific principles;
- has the necessary knowledge, insights, skills and attitude to embark on a career in any of the diverse areas of this field;
- has a good understanding of the social context in which she/he will fulfil a key role in the areas of veterinary healthcare, animal welfare and One Health;
- is intrinsically motivated to pursue lifelong learning;
- is open to and can adapt to change in both society and, in particular, the field of Veterinary Science;
- conducts according to the ethical and moral standards of the profession and society in the pursuit of sustainable practices<sup>3</sup>.

<sup>3</sup>Sustainability: development that meets the needs of the present without compromising the ability of future generations to meet their own needs (source: World Commission for Environment and Development, United Nations).

# Domains and Competencies

## Master of Veterinary Science, Utrecht University

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### 1. CLINICAL REASONING AND DECISION-MAKING

The graduate demonstrates critical thinking and problem solving to arrive at evidence-based decisions that considers animal and client needs, available resources, and social and societal context.

#### *The graduate:*

- 1.1. Gathers and assimilates relevant information about the issue.
- 1.2. Identifies and prioritizes problems to arrive at differential diagnoses.
- 1.3. Creates and adjusts a diagnostic and/or treatment plan based on available evidence.
- 1.4. Incorporates animal welfare, public health, client expectations, economic and political constraints as well as personal and professional moral and ethical considerations into the diagnostic or treatment plan.
- 1.5. Prioritizes situational urgency and allocates resources.
- 1.6. Responds to changing circumstances.
- 1.7. Recognizes own limitations with respect to knowledge, skills and resources and consults as needed.

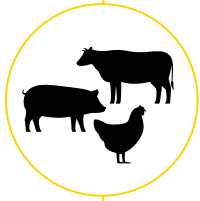


### 2. INDIVIDUAL ANIMAL CARE AND MANAGEMENT

The graduate has relevant knowledge and expertise to perform preventive, diagnostic, medical and surgical procedures for the health, welfare and treatment of animals, appropriate to the context and life stage of the animal.

#### *The graduate:*

- 2.1. Performs veterinary procedures including preventive care and post-procedural care.
- 2.2. Advises on sustainable animal stewardship of individual animals and the associated risks for animal-, public- and environmental health (in compliance with legal regulations taking account of economic realities).
- 2.3. Advises on and promotes welfare of individually kept animals.



### 3. ANIMAL POPULATION CARE AND MANAGEMENT

The graduate designs and implements programs to improve the health, welfare and productivity of animal populations.

*The graduate:*

- 3.1. Analyses quantitative and qualitative data to optimize the structures and systems in which animal populations are embedded in the local, national and global context.
- 3.2. Advises on sustainable animal stewardship and the associated risks for population and the associated risks for animal-, public- and environmental health (in compliance with legal regulations taking account of economic realities).
- 3.3. Advises on biosecurity.
- 3.4. Advises on and promotes the welfare of animals kept in populations.



### 4. VETERINARY PUBLIC HEALTH/ ONE HEALTH

The graduate responds to issues at the interface of animals, humans, and the environment, utilizing a global perspective and sensitivity to local cultures.

*The graduate:*

- 4.1. Recognizes zoonotic diseases and other animal associated health risks and responds accordingly.
- 4.2. Promotes sustainable health, welfare and safety of animals, people and the environment.



### 5. COMMUNICATION

The graduate communicates effectively with diverse clients, colleagues, other relevant stakeholders and the public to promote animal, human and environmental health and wellbeing.

*The graduate:*

- 5.1. Listens carefully and communicates professionally.
- 5.2. Demonstrates client-centred communication whilst being aware of the context.
- 5.3. Documents actions as appropriate.



### 6. COLLABORATION

The graduate collaborates with colleagues, other health care professionals, clients and other stakeholders, shows leadership and acts as an interprofessional team member.

*The graduate:*

- 6.1. Solicits, respects and integrates contributions from others.
- 6.2. Functions as leader or team member based on experience, skills and context.
- 6.3. Maintains ongoing professional relationships to ensure continuity of collaborative effort.
- 6.4. Demonstrates inclusivity and (inter)cultural competence.



## 7. PROFESSIONALISM AND PROFESSIONAL IDENTITY

The graduate is self-reflective, seeks personal and professional development and is aware of their personal wellbeing and societal responsibilities.

### *The graduate:*

- 7.1. Adopts an ethical approach to meeting professional obligations.
- 7.2. Practices time management.
- 7.3. Reflects on personal actions.
- 7.4. Engages in lifelong learning and career planning.
- 7.5. Attends to wellbeing of self and others.



## 8. ENTREPRENEURSHIP, FINANCIAL AND PRACTICE MANAGEMENT

The graduate utilizes business acumen to manage professional and personal decisions, complies with legal and regulatory requirements and ensures safety of the workplace.

### *The graduate:*

- 8.1. Has an entrepreneurial attitude and is innovative and creative.
- 8.2. Weighs economic factors in personal and business decision-making.
- 8.3. Delivers veterinary services compliant with legal and regulatory requirements.
- 8.4. Advocates the health and safety of patients, clients, and members of the team within the workplace.



## 9. SCHOLARSHIP

The graduate demonstrates the systematic identification, evaluation, integration and adaptation of evidence and experience to formulate questions and solutions, and to educate others.

### *The graduate:*

- 9.1. Understands and evaluates research and literature.
- 9.2. Endorses the fundamental position of science in the veterinary profession and the public debate.
- 9.3. Integrates and applies (evidence-based) knowledge and skills.
- 9.4. Disseminates knowledge and practices to stakeholders.