UAB
Universitat Autònoma de Barcelona

Master's Dissertation

Code: 43760
ECTS Credits: 15

2025/2026

Degree	Type	Year
Zoonoses and One Health	OB	0

Contact

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Teaching groups languages

You can view this information at the end of this document.

Prerequisites

As a requirement to be admitted the student must possess one of the following degrees: Any degree in the field of Health Sciences (Veterinary, Medicine, Infirmary, Food Science, Animal Science, Animal Health, Public Health, Biomedicine, Psychology…) or Life Sciences (Biology, Biochemistry, Biotechnology, Bioinformatics, Zoology, Botany, Ecology, Biotechnology, Biodiversity, Agronomics, Environmental Sciences…) or similar.

Objectives and Contextualisation

Final Master Dissertation (TFM, from the Catalan *Treball de fi de màster*) will consist in a specific project related or linked with a research group, an institution, or a company where the student will be able to apply in a particular case the knowledges, abilities and aptitudes acquired during the master. TFM will be carried out under the supervision of a (there can be TFMs with more than one) director (generally, one of the professors of the Master) that will advise and help to solve the problems that the student will face during such process. Once the TFM is finished it will be presented and defended in a public session in front of a committee of evaluation.

Competences

- Act in accordance with the code of ethics of the profession.
- Communicate and justify conclusions clearly and unambiguously to both specialist and non-specialist audiences.
- Continue the learning process, to a large extent autonomously.
- Design, plan and carry out a research project on zoonotic agents, based on the vision of One Health.
- Generate innovative and competitive proposals for professional activity and research.
- Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
- Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.
- Take decisions on the establishment of zoonosis surveillance and containment plans.
- Work alone or in a multidisciplinary team within the area of study, showing critical reasoning and creativity, and the ability to analyse, interpret and synthesise the data generated.

Learning Outcomes

1. Carry out an experimental design and/or suitable statistical data processing.
2. Comply with the profession's code of practice during the research project and in relation to work colleagues.
3. Conduct professional activity in compliance with its code of practice.
4. Discuss findings before an examining board.
5. Display the capacity of integration into the research team.
6. Display the capacity to integrate into the research team and engage in multidisciplinary collaboration towards the completion of the master's dissertation.
7. Draw up new hypotheses or programmes for the containment or prevention of zoonoses based on the general vision of One Health.
8. Implement surveillance and containment plans for specific or real cases.
9. Make an oral presentation of the work performed.
10. Organise and maintain a digital file with the data, protocols, analytical methods, etc. generated.
11. Perform correct and thorough bibliographic research for the assignment or topic to be resolved, using the resources learned.
12. Perform practical assignments using standard work procedures (SWP) and laboratory good practice.
13. Prepare a written report on the work done and the results obtained, following the established authorship norms.
14. Prepare and distribute data compilation templates and specific/detailed calendars for the activities to be carried out.
15. Present the decisions taken when facing specific situations or real cases.
16. Use the methodology of science research, applying the knowledge of One Health acquired and resolve the issues arising in this work.
17. Work alone or in a multidisciplinary team within the area of study, showing critical reasoning and creativity, and the ability to analyse, interpret and synthesise the data generated.

Content

TFM can be of different nature: experimental, bibliographic or based in an analyse of previously obtained data and it will have three stages:

1. Planification Stage: the student, after a brief phase of preliminary documentation and, advised by its supervisor, must formalize the objective of its work and will design a plan of activities that will be presented during the preliminary evaluation session, held just before that the student begin its activities.
2. Development stage: the student will face the realization of his/her TFM according its stablished work plan.
3. Defense stage: The student will elaborate a written dissertation that will be presented and defended orally in a public session in front of the TFM's evaluation committee.

this module, as the rest of the master, will be carried out in English.

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Informative session	1	0.04	7, 16
Preeliminary evaluation session	2.5	0.1	4, 7, 9, 15, 16
Type: Supervised			

		Hours	ECTS	Learning Outcomes
Tutorial		15	0.6	5, 7, 9, 13, 16
Type: Autonomous				
Bibliographic research and paper reading		40	1.6	11
Carrying out Works, practical duties and other activities		210	8.4	2, 6, 5, 3, 7, 8, 10, 14, 12, 1, 17, 16
Cooperative learning		30	1.2	6, 5, 7, 8, 14, 12, 1, 17, 16
Exposition and defense of the TFM		0.75	0.03	4, 9, 15
Personal study		40	1.6	2, 3, 7, 1, 17, 16
Writting the TFM dissertation		35	1.4	15, 10, 13

Teaching methodology used will vary depending on the nature of each TFM. Basically we will follow the following steps:

Directed activities

- Informative session
- Preliminary evaluation session

Supervised activities

- Tutorials

Autonomous activities

- Bibliographic research
- Reading papers
- Cooperative learning
- Carrying out works
- Carrying out practical duties
- Writing the master dissertation
- Defense of the TFM
- Personal study
- Participation in other activities

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Advisor's report	30%	0	0	2, 6, 5, 3, 7, 8, 10, 14, 12, 1, 11, 17, 16
Exposition and defense of the TFM	21%	0.75	0.03	4, 7, 9, 15
TFM written dissertation	49%	0	0	2, 6, 3, 7, 8, 10, 14, 13, 12, 1, 11, 17, 16

The Student must present a written dissertation that will be defended in a public session. The student's advisor will present an evaluation report on the student's performance that will suppose a 30% of the final qualification. The student must attend, at least, a 50% of the defenses of the rest of his/her colleagues to be considered apt to be evaluated If the written dissertation is not delivered in time or the student does not presents to the defense or he/she does not attend, at least, a 50% of the defenses of the rest of his/her colleagues, such TFM will be considered as "non evaluable"

Bibliography

Bibliography consulted will vary depending on the nature of each TFM

Software

Software used will vary depending on the nature of each TFM (MSWord, MSExcell, R statistical software, etc.). We highly recommend the use of a Bibliographic Management Software, such as Zotero.

For this module, the use of Artificial Intelligence (AI) technologies is allowed in support tasks, such as bibliographic or information searches, text correction, translations, etc. The student must clearly identify which parts have been generated with this technology, specify the tools used and include a critical reflection on how these have influenced the process and the final result of the activity. The lack of transparency in the use of AI will be considered a lack of academic honesty and may lead to a penalty in the grade of the activity, or greater sanctions in serious cases.

Groups and Languages

Please note that this information is provisional until 30 November 2025. You can check it through this link. To consult the language you will need to enter the CODE of the subject.