

Course Overview in MSc Epidemiology (Postgraduate) Face to Face

	ECTS
Core Courses – 21 ECTS	
Introduction to Epidemiology	3.0
Introduction to Statistics and SPSS – <i>E-learning</i>	1.5
Study Design in Etiologic Research	3.0
Classical Methods in Data Analysis	6.0
Modern Methods in Data Analysis	4.5
Presentation and Writing Research Proposals - <i>Seminar</i>	2.0
Research Ethics and Society - 4 mornings contact hours	1.0
Specialization Clinical Epidemiology – 13 ECTS	
<i>The following obligatory courses (4.5 ECTS):</i>	
Clinical Epidemiology	1.5
Clinical Trial and Drug Risk Assessment	1.5
Systematic Reviews in Intervention Research	1.5
<i>At least one (1.5 ECTS) of the following courses:</i>	
Advanced Diagnostic Research	1.5
Prognostic Research	1.5
<i>At least one (1.5) ECTS of the following courses:</i>	
Advanced Topics in Causal Research: Cofounding and Effect Modification	1.5
Systematic Reviews in Diagnostic Research	1.5
Systematic Reviews in Prognostic Studies	1.5
<i>Add other courses to reach 13 ECTS for the total specialization*</i>	
Specialization Pharmacoepidemiology – 13 ECTS	
<i>The following obligatory courses (6 ECTS):</i>	
Clinical Epidemiology	1.5
Clinical Trial and Drug Risk Assessment	1.5
Pharmacoepidemiology & Drug Safety	1.5
Pharmaceutical Policy Analysis	1.5
<i>Add other courses to reach 13 ECTS for the total specialization*</i>	
Pharmacoeconomics	1.5
Specialization Epidemiology of Infectious Disease – 13 ECTS	
<i>The following obligatory courses (6.0 ECTS):</i>	
Clinical Epidemiology	1.5

Epidemiology of Infectious Diseases	1.5
Mathematical Modelling of Infectious Diseases	3.0

*Add other courses to reach 13 ECTS for the total specialization**

Molecular Epidemiology of Infectious Diseases	1.5
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Specialization Medical Statistics – 13 ECTS

The following obligatory courses (4.5 ECTS):

Generalized Linear Models	1.5
Mixed Models	1.5
Computational Statistics	1.5

*Add other courses to reach 13 ECTS for the total specialization**

Survival Analysis	1.5
Inference Models	1.5

Specialization Occupational and Environmental Epidemiology – 13 ECTS

Choose at least 6.0 ECTS of the following courses:

Exposure Assessment in Epidemiology	3
Effects Assessment in Toxicology and Environmental Epidemiology	6
Risk Assessment and Risk Management	3
Environmental and Occupational Epidemiology	6

*Add other courses to reach 13 ECTS for the total specialization**

Specialization Veterinary Epidemiology – 13 ECTS

The following obligatory courses (7.0 ECTS):

Economic Principles and Concepts for the Veterinary Sciences	2.5
Advanced Veterinary Epidemiology	6.0

*Add other courses to reach 13 ECTS for the total specialization**

Applied Economic Modelling for the Veterinary Sciences	3.0
Molecular Epidemiology of Infectious Diseases	1.5
Mathematical Modelling of Infectious Diseases	3.0

Elective courses (MSc Programme)

Exposure Assessment in Epidemiology	3.0
Effects Assessment in Toxicology and Environmental Epidemiology	4.5
Risk assessment and Risk Management	3.0
Clinical Epidemiology	1.5
Clinical Trials and Drug Risk Assessment	1.5
Economics Principles and Concepts for the Veterinary Sciences	2.5
Molecular Epidemiology of Infectious Diseases	1.5

Systematic Reviews in Intervention Research	1.5
Advanced Diagnostic Research	1.5
Advanced Topics in Causal Research	1.5
Applied Economic Modelling for the Veterinary Sciences	3.0
Cardiovascular Epidemiology	1.5
Prognostic Research	1.5
Inference and Models	1.5
Genetic Epidemiology	1.5
Generalized Linear Models	1.5
Public Health Epidemiology	1.5
Advanced Veterinary Epidemiology	6.0
Nutritional Epidemiology	1.5
Applied Bayesian Statistics	1.5
Missing Data	0.9
IPD meta-analyse	1.5
Mixed Models	1.5
Systematic Review in Diagnostic Research	1.5
Systematic Review of Prognostic Studies	1.5
Computational Statistics	1.5
Methodology in Health Economic Evaluation	1.5
Molecular Epidemiology of Chronic Diseases	1.5
Survival Analysis	1.5
Evidence Based Evaluation of New Imaging Techniques	1.5
Environmental and Occupational Epidemiology	3.0
Epidemiology of Infectious Diseases	1.5
Big Data	1.5
Mathematical Modelling of Infectious Diseases	3.0
Challenges in Global Health	1.5
Pharmacoepidemiology and Drug Safety	1.5
Pharmaceutical Policy Analysis	1.5
Pharmacoeconomics	1.5
Multivariate Analysis	1.5

* These other courses do not need to be within the same specialization