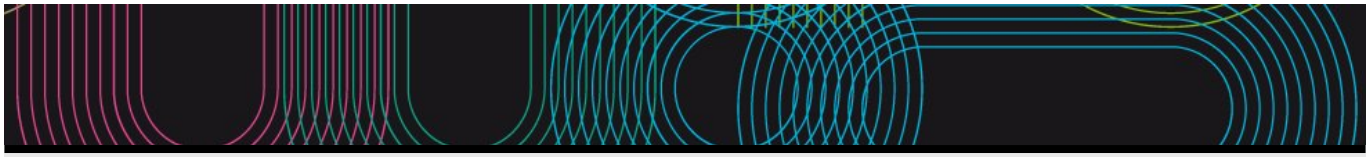

IDENTIFYING DATA				
The Final Master Degree Work				
Subject	The Final Master Degree Work			
Code	V02M123V01401			
Study programme	(*)Máster Universitario en Ciencias Biolóxicas: Bioloxía Molecular, Computacional e Ambiental e Bio-Industrias			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	12	Mandatory	2nd	2nd
Teaching language	English			
Department				
Coordinator	Iglesias Briones, Maria Jesús			
Lecturers	Iglesias Briones, Maria Jesús Megías Pacheco, Manuel Rodeiro Iglesias, Javier Valverde Pérez, Diana			
E-mail	mbriones@uvigo.es			
Web				
General description	Practical exercise to instruct the student in the need for continuous updating and adaptation of state-of the art of knowledge and methodologies in order to provide innovative solutions to solve problems in Biological Sciences.			

Competencies	
Code	
A1	Acquiring knowledge and understanding that provide a basis or an opportunity to be original in the development and/or application of ideas in the research environment
A2	That the students would be able to apply the acquired knowledge and their ability to solve problems to new or unfamiliar environments within broader (or multidisciplinary) contexts which are related to their study field
A3	That students would be able to integrate knowledge and to face the complex task of formulating judgments based on incomplete or limited information by incorporating social and ethical responsibilities which can be linked to their knowledge and judgments
A4	That students would be able to communicate their conclusions, and their inherent knowledge and rationale, to both specialist and non-specialist audiences in a clear and unambiguous way
A5	That students will acquire the learning skills that would enable them to continue their learning progress in a way that must be largely self-directed or autonomous
B1	Development of critical and self-critical thinking skills
B2	Development of comprehensive, analysis and synthesis skills
B3	Ability to use criteria and scientific methods when planning and solving problems by applying the acquired knowledge
B4	Capacity of planning and organization in order to define goals, objectives and priorities of the aimed work and of arranging time and resources
B5	Capacity to apply the acquired knowledge to new environments, especially within multidisciplinary contexts
B6	Ethical commitment when performing the work avoiding plagiarism; professional and researcher ethics
B7	Development of scientific curiosity, initiative, creativity and entrepreneurship
B8	Ability for collecting, analysing and integrating information from different sources and capacity for its interpretation and evaluation
B9	Autonomous capacity of continuously updating the current knowledge
B10	Teamwork skills, enriched by adopting multidisciplinary approaches

C3	Ability to manage and/or to develop basic tools for validating and analysing data by means of statistics and bioinformatics.
D1	Dissemination of results and conclusions from biological studies in both oral and written English via complex presentations addressing ideas related to the R&D in Biology
D2	Managing computational, laboratory, field and industrial techniques to gain information and knowledge as well as abilities to process it and use it
D3	Spreading and dissemination of ideas in both academic and non-specialised contexts
D4	Awareness of social and ethical responsibilities

Learning outcomes

Expected results from this subject	Training and Learning Results
Ability to synthesize the information gathered	A1 A2 A3 A4 A5 B1 B2 B6 B7 B8 B9
Handling of specialized literature and ICT	A1 A2 A3 A4 A5 B4 B8 B10 C3 D2
Ability to critical discussion and quantitative assessment of the state of the art of knowledge	A1 A2 A3 A4 A5 B1 B3 B4 B5 B6 B8 B9 D1 D3 D4

Contents

Topic	
1. Management of databases from different sources of information	Sources of information
2. Quantitative analysis of the information collected in a systematic manner and at a professional level	Statistical analyses of the compiled information
3. Critical analysis in its broadest context, maintain the argument and presentation of conclusions regarding the actual research or business environment	Selection of the most sounded and reliable data
4. Exhibition of work and effective communication	Preparing public dissertations

Planning

	Class hours	Hours outside the classroom	Total hours
Practice in computer rooms	0	40	40
Autonomous troubleshooting and / or exercises	0	26	26

Presentations / exhibitions	9	225	234

*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies

	Description
Practice in computer rooms	Classwork with computer
Autonomous troubleshooting and / or exercises	Resolution of problems and questions. Data validation
Presentations / exhibitions	Writing up of the report. Presentation preparation

Personalized attention

Methodologies	Description
Presentations / exhibitions	The professor provides guiadance regarding the content and the format

Assessment

	Description	Qualification	Training and Learning Results			
Presentations / exhibitions	Written assay (30%) Public defense (70%)	100	A1 A2 A3 A4 A5	B1 B2 B3 B4 B5 B6 B7 B8 B9 B10	C3	D1 D2 D3 D4

Other comments on the Evaluation

Sources of information

Recommendations

Other comments

As a general rule, the content of this final Master project could be either related to the Mandatory Project or address a totally different topic and requires the supervision of an academic tutor (Master lecturer). However, if the student chooses a profesional orientation, the tutor of the work could be a renowned professional. In any case, the role of the tutor will be to guide the student during the course of this work, to supervise and to ensure compliance with the objectives but not taking the role of principal investigator or an specialist in the field.