

## Syllabus

### Subject

<b>Subject / Group</b>	11264 - Master's Thesis / 1
<b>Degree</b>	Master's in Nutrigenomics and Personalised Nutrition
<b>Credits</b>	6
<b>Period</b>	Annual
<b>Language of instruction</b>	Spanish

### Professors

Lecturers	Office hours for students					
	Starting time	Finishing time	Day	Start date	End date	Office / Building
Andrés Francisco Javier Palou Oliver <a href="mailto:andreu.palou@uib.es">andreu.palou@uib.es</a>						You need to book a date with the professor in order to attend a tutoring session.
Ana María Rodríguez Guerrero <a href="mailto:amrodriguez@uib.es">amrodriguez@uib.es</a>						You need to book a date with the professor in order to attend a tutoring session.

### Context

The students must successfully complete a practical/placement subject (Practicum), where the students have to carry out a significant piece of training work under the direction of a tutor: a lecturer from the master with the grade of PhD in the case of profile 2A students, and a tutor from one of the collaborating Food Enterprises together with a lecturer with the grade of PhD (who will follow the student's development in the business enterprise) in the case of profile 2B students. The Practicum is tightly linked to this subject of final project, the Final Master's Work (both subjects form together the compulsory module of "Final Master's Work", the assessment of which includes the presentation of a report of the work carried out in the practicum, including results and a scientific discussion of them). This report will be defended in public before an examining board approved by the Master's management committee and made up by doctors from the course and, if necessary, external staff from the entrepreneurial field and invited doctors. The examining board will assess the student report and its public defence, which will be considered in the final mark.

Learning results:

- Integrating the knowledge acquired with the rest of the Master's subjects by elaborating a written report related with the field of research and development in the field of Nutrigenomics.
- Elaborating a scientific report, complete and of quality.
- Defending the elaborated report by examination with a specialized board and in public defence.

Lecturers:

- Dr. Andreu Palou is Professor in Biochemistry and Molecular Biology of the University of the Balearic Islands; with six six-year research expertise stretches recognized by the Spanish Government and wide teaching and research experience. He is the co-Director of the Master in Nutrigenomics and Personalised Nutrition. He is also the Director of the Laboratory of Molecular Biology, Nutrition and Biotechnology of the

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UIB and has led several coordinated international research projects as Principal Investigator, having more than three-hundred research papers, different patents and having received various research prizes.

- Dr. Ana M. Rodríguez is PhD in Biochemistry and associate professor of the University of the Balearic Islands; with three six-year research experience recognized by the Spanish Government and wide teaching experience at the University. She is the co-Director of the Master in Nutrigenomics and Personalised Nutrition. She is also an active researcher; at present, her research is focused in the field of gene-nutrient interactions and the relationship of nutrients and early nutritional interventions with the prevention of metabolic disorders associated to energy control, obesity and associated disorders, including the effect on adipose tissue, skeletal muscle and brain health. She has participated in numerous international cooperative research projects.

## Requirements

To be able to do the final part of the subject, i.e. the public defence with an examining board of the Final Master's Work, it is necessary the student has passed all the rest of the subjects of the Master.

## Skills

### Specific

- \* E10 – Knowing the last advances in the field of Nutrigenomics, Personalised Nutrition and Molecular Nutrition and acquiring the abilities necessary for being in constant actualization.

### Generic

- \* G1 – Capacity to apply critical, logic and creative thinking in their work.
- \* G10 – Capacity to articulate the knowledge in oral and written presentations.
- \* G11 – Advanced comprehension of the global context where the speciality area is developed.
- \* G13 – Knowing the capacities and possibilities of TIC (Technologies of Information and Communication) in the area of the discipline.
- \* G15 – Ability to analyse the risk/benefit balance of a new development (or innovation).
- \* G3 – Capacity to work in an autonomous way, with initiative, and to solve problems in an effective way.
- \* G5 – Ability to analyse data and to get conclusions from the research results.
- \* G7 – Respect for the intellectual ethics and integrity.
- \* CB9 – The students must know how to communicate their conclusions, and the knowledge and ultimate reasons which support them, to specialised and non-specialised publics in a clear way without ambiguity.
- \* CB10 – The students must have the abilities for learning necessary for them to continue studying in a way mainly self-directed and autonomous.
- \* CB8 – The students must be able to integrate knowledge and to face the complexity of formulating judgements from information which, although being incomplete or limited, includes reflexions about the social and ethic responsibilities linked to the application of their knowledge and judgements.
- \* CB6 – Having and comprehending knowledge giving a base or opportunity for being original in the development and/or application of ideas, often in a context of research.
- \* G6 – Capacity for working in an interdisciplinary way.
- \* G4 – Capacity to formulate hypotheses and to design suitable studies for their verification.
- \* G2 – Knowing how to incorporate the scientific advances to the own professional field.
- \* G14 – Knowing in depth the ambit of the Scientific Research and its repercussion in the society.

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\* G12 – Capacity to develop their work in English (lingua franca of the discipline).

### Basic

\* You may consult the basic competencies students will have to achieve by the end of the Master's degree at the following address: [http://estudis.uib.cat/master/comp\\_basiques/](http://estudis.uib.cat/master/comp_basiques/)

## Content

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The alumni have to write a report, and make an oral defense, corresponding to the Final Master's Work. The corresponding instructions for the writing of the report will be given to the students at the beginning of the academic year. The alumni will be tutored by a PhD lecturer of the Master. The research lines are associated to the practicum.

### Students in profile 2A

- For examples of FMW already done, please visit the UIB web. There are numerous research lines to be done in the UIB.
- There is also the possibility to arrange a practicum and the subsequent FMW in collaboration with one of the laboratories of CIBERobn, after the request of the student and the acceptance of the receipt laboratory.
- If one student is interested in doing a specific-only-theory work (without laboratory work and choosing a topic of interest), it can propose it to the coordinators of the subject in order to analyse the viability of such work.

### Students in profile 2B:

Research and development in food enterprises:

Biópolis S.L. (1 placement)  
Bioseach Life (Puleva Biotech + Exxentia) (2)  
CIBERobn (Oficina de proyectos) (2)  
ALIMENTÓMICA S.L. (2)  
CTNS (EURECAT) (2)  
Cluster BIOIB (2)

### Range of topics

Final Master's Work. Written report

## Teaching methodology

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In-class work activities (0.52 credits, 13 hours)

Modality	Name	Typ. Grp.	Description	Hours
ECTS tutorials	Tutorial sessions with the tutor/s and coordinators	Small group (P)	Tutorial sessions with the tutor/s for guiding in the process of the elaboration of the Final Master's Work. Some sessions	12

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Modality	Name	Typ. Grp.	Description	Hours
			with the coordinators of the subject will be also necessary to know the correct procedures to follow.	
Assessment	Public defence of the Final Master's Work	Large group (G)	Public defence of the Final Master's Work with an examining board.	1

At the beginning of the semester a schedule of the subject will be made available to students through the UIBdigital platform. The schedule shall at least include the dates when the continuing assessment tests will be conducted and the hand-in dates for the assignments. In addition, the lecturer shall inform students as to whether the subject work plan will be carried out through the schedule or through another way included in the Aula Digital platform.

### Distance education tasks (5.48 credits, 137 hours)

Modality	Name	Description	Hours
Individual self-study	Elaboration of the Final Master's Work	Preparation and writing of the report of the Final Master's Work (including the review of bibliography, its study and the data processing) and preparation of its defence.	137

### Specific risks and protective measures

The learning activities of this course do not entail specific health or safety risks for the students and therefore no special protective measures are needed.

### Student learning assessment

The guidelines for assessment of the Final Master's Work (FMW or master's theses) are given below. In brief: each student must deliver a written report following the instructions given by the coordinator of the subject (the guidelines for the writing and delivery of the report will be given to the students at the beginning of the academic year and will be available in Aula digital), the report will be defended in public before an examining board, the composition of which will follow the rules given by the academic rules of the University (<https://cep.uib.es/es/Alumnat/TREBALL-DE-FI-DE-MASTER/> in Spanish). Also, there will be specific guidelines for the public defense of the FMW that will be given to the students at the beginning of the academic year.

In line with the UIB's commitment to transparency and quality, all of the master's theses (or FMW) presented to complete this degree will be screened through the plagiarism detection tool Turnitin and subsequently stored in its repository. The resulting report will be made available to the members of the board examining the master's thesis, so that they can corroborate its originality. In those cases in which the report raises doubts about the originality of the thesis, the board may request an account from the candidate. Should this account not be entirely satisfactory, the board may decide to grant the thesis a 0 (Fail grade).

### Frau en elements d'avaluació

In accordance with article 33 of Regulation of academic studies, "regardless of the disciplinary procedure that may be followed against the offending student, the demonstrably fraudulent performance of any of the

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evaluation elements included in the teaching guides of the subjects will lead, at the discretion of the teacher, a undervaluation in the qualification that may involve the qualification of "suspense 0" in the annual evaluation of the subject".

### Public defence of the Final Master's Work

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Modality	Assessment
Technique	Oral tests ( <b>non-retrievable</b> )
Description	Public defence of the Final Master's Work with an examining board.
Assessment criteria	A report of the work carried out in the practicum must be presented, including results and a scientific discussion of them. This report will be defended in public before an examining board approved by the Master's management committee and made up by doctors from the course and, if necessary, external staff from the entrepreneurial field and invited doctors. The examining board will assess the student report and its public defence, which will be considered in the final mark.

Final grade percentage: 100%

### Resources, bibliography and additional documentation

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#### Basic bibliography

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All relevant bibliography, mainly based on papers from international scientific journals and scientific data bases, as well as specific bibliography given by the directors of the Final Master's Work.

