

COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Food and Nutritional Sciences		
ACADEMIC UNIT	Department of Food Science & Human Nutrition		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	3480	SEMESTER	8th
COURSE TITLE	Clinical Nutrition		
INDEPENDENT TEACHING ACTIVITIES <i>if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>		WEEKLY TEACHING HOURS	CREDITS
Lectures and Practice Exercises		4	3
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Specialised Scientific area		
PREREQUISITE COURSES:	Field of Science Physiology Biochemistry Introduction to Human Nutrition Nutrition and Metabolism		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek (English if needed)		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes		
COURSE WEBSITE (URL)			

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
- *Guidelines for writing Learning Outcomes*

The course is the basic introductory class to Clinical Nutrition.

The material of the course aims at introducing the students to the basic principles and application of clinical nutrition for the prevention and treatment of chronic diseases.

In addition it covers the basic principles of pathophysiology of heart disease, diabetes mellitus, hypertension, chronic kidney disease, obesity, osteoporosis and cancer.

Finally, the goal of the course is for the students to comprehend the role of nutrition, nutrition supplements, functional foods and the new technologies for their development and application.

Upon successful completion of the course the student will:

- **Have gained knowledge and understanding of the basic issues and new developments** in Clinical Nutrition and the relationship between nutrients and foods and prevention or dietary treatment of chronic diseases.
- Will be able to comprehend complex issues related to Clinical Nutrition.
- Will be able to understand the relationship between food patterns, nutrients and foods and chronic disease development.
- Will be able to comprehend the food patterns and the dietary prescription assigned by type of chronic disease.
 - Will be able to comprehend the connection between functional foods and public health.

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology

Adapting to new situations

Decision-making

Working independently

Team work

Working in an international environment

Working in an interdisciplinary environment

Production of new research ideas

Project planning and management

Respect for difference and multiculturalism

Respect for the natural environment

Showing social, professional and ethical responsibility and sensitivity to gender issues

Criticism and self-criticism

Production of free, creative and inductive thinking

Others...

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- Acquisition, analysis and synthesis of data and information with the use of relevant technologies
- Knowledge flexibility and adaptation in new scientific environment
- Independent work
- Group work
- Work in interdisciplinary environment
- Development of new research ideas
- Respect of ecosystems
- Social and ethical responsibility and sensitivity on male/female issues
- Critical thinking
- Promotion of free, creative and analytical thinking

(3) SYLLABUS

<ol style="list-style-type: none"> 1. Basic principles 2. Nutrition and Heart Disease 3. Nutrition and Hypertension 4. Nutrition and Obesity 5. Nutrition and Diabetes Mellitus 6. Nutrition and Chronic Kidney Disease 7. Nutrition and Cancer 8. Nutrition and Osteoporosis 9. Nutrition and diseases of upper and lower Gastrointestinal system

(4) TEACHING and LEARNING METHODS - EVALUATION

<p style="text-align: center;">DELIVERY</p> <p><i>Face-to-face, Distance learning, etc.</i></p>	In class lectures using adequate technological means, distance learning if required; and specific exercises at the end of hands on lectures.	
<p style="text-align: center;">USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</p> <p><i>Use of ICT in teaching, laboratory education, communication with students</i></p>	Use Powerpoint slides. Communication with students via e-mail. Learning process support through access to e-class, online databases, etc.	
<p style="text-align: center;">TEACHING METHODS</p> <p><i>The manner and methods of teaching are described in detail.</i></p> <p><i>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i></p> <p><i>The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</i></p>	<p style="text-align: center;">Activity</p>	<p style="text-align: center;">Semester workload</p>
	Lectures	35
	Individual assignment (brief methodological study protocol)	35
	Individual study	35
	Course total	105
<p style="text-align: center;">STUDENT PERFORMANCE EVALUATION</p> <p><i>Description of the evaluation procedure</i></p> <p><i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<ol style="list-style-type: none"> I. Written exam (60%) which includes: <ul style="list-style-type: none"> - Multiple choice questions and critical evaluation of concepts II. Presentation of Group Assignment (40%) 	

(5) ATTACHED BIBLIOGRAPHY

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| <ol style="list-style-type: none"> 1. A. Ζαμπέλας, Κλινική Διαιτολογία και Διατροφή, Εκδόσεις Πασχαλίδης, 2007 2. Online class material (PowerPoints). |
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