General Information	
Academic subject	Nutrition and Nutrition education (I.C. Food Safety, Nutrition and
	Nutrition education)
Degree course	Bachelor programme: Food Science and Technology
ECTS credits	3 ECTS
Compulsory attendance	No
Teaching language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Maria Teresa	mariateresabalducci@gmail.com	MED/49
	Balducci		

ECTS credits details		
Basic teaching activities	2 ECTS Lectures	1 ECTS Laboratory or field classes)

Class schedule	
Period	II semester
Course year	Third
Type of class	Lectures
	Practical classes with, if necessary, projection of educational videos
	Practical classes consisting in the discussion of cases-study

Time management	
Hours	75
In-class study hours	30
Out-of-class study hours	45

Academic calendar	
Class begins	March 1 <sup>th</sup> , 2021
Class ends	June 11 <sup>th</sup> , 2021

Syllabus	
Prerequisites/requirements	Knowledge of basic microbiology and microbiology applied to food and
	beverages
Expected learning outcomes	<ul> <li>Knowledge and understanding         <ul> <li>Knowledge of biochemistry that is the basis of various processes such as the transmission of nerve impulses, blood circulation, respiration, assimilation and digestion of nutrients, excretory system, and thermoregulation.</li> </ul> </li> <li>Applying knowledge and understanding         <ul> <li>To prevent food-born diseases</li> <li>Making informed judgements and choices</li> <li>To acquire information needed for actions aiming to improve food education</li> </ul> </li> <li>Communicating knowledge and understanding         <ul> <li>Ability to describe the physiological and pathological characteristics of neuroendocrine and digestive systems; Ability to communicate the consequences of lack of macro or micronutrient overtake.</li> </ul> </li> <li>Capacities to continue learning         <ul> <li>Ability to improve knowledge for solving food overtake or undertake issues.</li> </ul> </li> </ul>
	The expected learning outcomes, in terms of both knowledge and skills, are provided in Annex A of the Academic Regulations of the Degree in Food Science and Technology (expressed through the European Descriptors of the qualification)

Contents	Anatomy and physiology control to Gastrointestinal system, thyroid,
	hypothalamus. Definition of different groups of nutrients:
	Macronutrients, Micronutrients. Guidelines for a healthy diet. Effects
	of nutrition on phenotype (Obesity and Childhood obesity, Diet in
	Pregnancy, Power sportsman, Dyslipidemia and cardiovascular
_	diseases, Nutrition in the elderly)
Course program Reference books	Notes from lectures and laboratory classes. Presentations (in pdf)
Reference books	provided by the teacher.
	Additional readings
	• Eileen Behan "Therapeutic Nutrition. A Guide to Patient
	Education"Springhouse Publishing, 2005
	Isobel R. Contento "Nutrition Education: Linking Research,
	Theory, and Practice" 2015
Notes	
Teaching methods	Lectures will be presented through PC assisted tools (Powerpoint) and
	slide projector. Projection of educational videos and practical classes
	(ranging from a total of 2 to 5 hours) consisting in the discussion of
	cases-study are also included as supplementary teaching method. Powerpoint presentations, in pdf format, will be shared with students
	through a mailing list. A dedicated mailing list will be created for
	interaction with students.
Evaluation methods	The exam consists of an oral dissertation on the topics developed
	during the theoretical and theoretical-practical lectures in the
	classroom and in the laboratory/production plants, as reported in the
	Academic Regulations for the Bachelor Degree in Food Science and
	Technology (article 9) and in the study plan (Annex A).
	Students attending at the lectures may have a middle-term preliminary
	exam, consisting of a written test, relative to the first part of the
	program, which will concur to the final evaluation and will be
	considered valid for a year.
	The evaluation of the preparation of the student occurs on the basis of
	established criteria, as detailed in Annex B of the Academic Regulations for the Bachelor Degree in Food Science and Technology.
	for the bachelor begree in rood science and rechnology.
	Non-Italian students may be examined in English language, according
	to the aforesaid procedures.
Evaluation criteria	Knowledge and understanding
	• To describe the functioning of the gastrointestinal tract and the
	neuro-endocrine system; Describe the absorption of foods and
	their metabolism. Know about pathologies related to a poor diet.
	<ul> <li>Applying knowledge and understanding</li> <li>Describe how the food technician can intervene by enriching</li> </ul>
	some foods to correct any food deficiencies (iodinated salt,
	selenium potato)
	Making informed judgements and choices
	<ul> <li>To describe how to take action to improve the quality of life</li> </ul>
	Communicating knowledge and understanding
	• To describe the physiological and pathological characteristics of
	neuroendocrine and digestive systems; Ability to communicate
	the consequences of lack or overtake of macro or micronutrients.
	Capacities to continue learning
	• To describe how you can finalize your knowledge to solve new
	pathological risks in unbalanced diets
Receiving times	From Monday to Friday by appointment only