

<b>General Information</b>	Studies in <b>NUTRITION SCIENCE FOR HUMAN HEALTH</b>
Title of the subject	<b>Nutrition in diseases of the digestive system</b>
Degree Course (class)	<b>Nutrition Science for Human Health</b>
ECTS credits	3
Compulsory attendance	No
Language	Italian

<b>Subject Teacher</b>		
Name and Surname	<b>Michele Barone</b>	
email address	<a href="mailto:michele.barone@uniba.it">michele.barone@uniba.it</a>	
Place and time of reception	Policlinic Hospital - P.zza G. Cesare 11 – D'Agostino build. From Monday to Friday by appointment	
<b>ECTS credits details</b>		
	Discipline sector (SSD)	Area
	Gastroenterology (MED/12)	Affine

<b>Study plan schedule</b>	Year of study plan		Semester	
	second		second	
<b>Time management</b>				
	Lessons	Laboratory	Exercises	Total
CFU	3			3
Total hours	24			24
In-class study hours				
Out-of-class study hours	51			51

<b>Syllabus</b>	
Prerequisites / Requirements	Basic knowledge of Physiology, Biochemistry, Nutrigenomics.
<b>Expected learning outcomes (according to Dublin descriptors)</b>	
<i>Knowledge and understanding</i>	- Knowledge in the field of clinical and artificial nutrition in patients suffering from diseases of the digestive and liver systems.
<i>Applying knowledge</i>	- Ability to assess the risk of inappropriate diets and particular behaviors on gastrointestinal function in gastrointestinal and hepatic diseases.
<i>Making informed judgments and choices</i>	- Evaluate the possible ethical implications of research and studies related to the topics covered. - In-depth study and discussion of social, ethical and psychological issues related to human nutrition problems.
<i>Communicating knowledge</i>	- Adequate development of the ability to communicate the conclusions and the underlying knowledge and reasoning related to the topics covered in the course.
<i>Capacities to continue learning</i>	- Improve the ability to learn from highly complex technical-scientific texts, monographs, scientific periodicals, computer tools and databases in the pathophysiological and nutritional field.
<b>Study Program</b>	
Content	<ul style="list-style-type: none"> <li>• <b>General Concepts on Nutrition</b> <ul style="list-style-type: none"> <li>- Malnutrition by default</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>- Excess malnutrition</li> <li>- Deficiency syndromes</li> <li>- Adverse reactions to food</li> <li>- Sarcopenia in diseases of the digestive system</li> <li>• <b>Artificial Nutrition</b> <ul style="list-style-type: none"> <li>- Artificial nutrition</li> <li>- Indications and contraindications to artificial nutrition and selection criteria</li> <li>- Formulations of mixtures for enteral and parenteral nutrition</li> <li>- Enteral and parenteral access routes</li> <li>- Intestinal insufficiency</li> <li>- Calculation of calorie and protein needs in artificial nutrition</li> <li>- Choice of access, monitoring and complications of artificial nutrition</li> <li>- Metabolic complications of artificial nutrition</li> </ul> </li> <li>• <b>Nutritional management in the patient</b> <ul style="list-style-type: none"> <li>- Nutritional management of NAFLD and in cirrhosis</li> <li>- Nutritional management of IBS</li> <li>- Nutritional management of Crohn's disease and ulcerative colitis</li> <li>- Nutritional management of intestinal insufficiency (short bowel syndrome)</li> <li>- Nutritional management in the patient with surgical resection of the upper gastrointestinal tract</li> <li>- Nutritional management of the patient with esophageal dysphagia</li> <li>- Management of the patient with digestive system neoplasms</li> <li>- Management of the patient with pancreatic diseases</li> <li>- Management of the patient with diverticular disease</li> </ul> </li> </ul>
Bibliography and textbooks	- "Manuale di Gastroenterologia" UNIGASTRO; Casa Editrice UTET.
Notes to textbooks	
Teaching methods	- Lectures and practical exercises
Assessment methods	- Written or oral test
Evaluation criteria	<ul style="list-style-type: none"> <li>- Evaluation of the ability to present the knowledge of the course content in a clear and appropriate language.</li> <li>- Evaluation of the ability to grasp the key elements of the various topics and to use the information learned by making appropriate correlations for the understanding of the questions asked and for the management of the answers.</li> </ul>
Further information	