

Module: SL2 Nutritional Biochemistry		
Exam: SL2 Nutritional Biochemistry	LV.-No.:	ECTS-Points: 5 CP
Recommended Semester: 3rd Semester	Module: Mandatory	Language: German
Responsible lecturer: Prof. Dr. Ursula Bordewick-Dell	Cycle: Winter Term	Registration information:
Lecturer in charge: Prof. Dr. Ursula Bordewick-Dell		
Learning outcomes	Students are able to <ul style="list-style-type: none"> • explain the structure, the properties and the nutritional and the physiological significance of different nutrient groups • to describe the primary metabolism and to recognize the relation between different metabolic pathways and describe their regulatory mechanisms • to describe important principles of molecular biology 	
Form of exam	Written exam (90 min); by successfully processing the e-learning module, 10% of the exam points can be acquired	
Form of teaching	<ul style="list-style-type: none"> • Lecture • E-learning (optional) 	
Course contents	<ul style="list-style-type: none"> • Structure and properties of proteins, carbohydrates and fats • Digestion, resorption and transport of nutrients; • The principles of signal transduction • Energy metabolism • Amino acid metabolism • Basics of molecular biology 	
Workload	Presence (4 SWS): Preparation and Follow-up: Sum:	60 h 180 h 240 h
Requirements	Performance record of General and Inorganic Chemistry	
Literature	<ul style="list-style-type: none"> • Müller-Esterl W., Biochemie, Spektrum Akademischer Verlag • Berg J.M., Tymoczko J.L., Stryer L., Stryer Biochemie, Spektrum Akademischer Verlag • Löffler G., Petrides P.E., Heinrich P.C., Biochemie und Pathobiochemie, Springer Verlag 	