

2nd year Bachelor 2021-2022 - Prof. Romano Regazzi, year coordinator

Modules and domains	Components	Nb hours	Coordinator	Credits
BMed2.1 Cells and signals (4 weeks)			Widmann Christian	7
B2.1 Cells and signals - Molecular and cellular pathology - Cellular responses to stress	Course	10		
B2.1 Cells and signals - Molecular and cellular pathology - Basics of molecular oncology	Course	10		
B2.1 Cells and signals - Pharmacology - Basics of pharmacology	Course	8		
B2.1 Cells and signals - Pharmacology - Basics of pharmacology	Exercises	1		
B2.1 Cells and signals - Glands and hormones - Morphology of endocrine organs	Course	5		
B2.1 Cells and signals - Glands and hormones - Physiology of endocrine organs	Course	12		
B2.1 Cells and signals - Introduction to the nervous system - Autonomous nervous system	Course	6		
B2.1 Cells and signals - Radiology - Basics of radiotherapy	Course	2		
B2.1 Cells and signals - Radiology - Basics of medical imaging	Course	6		
	Total	60		
BMed2.2 Blood, immunity, microbes (5 weeks)			Perreau Matthieu	9
B2.2 Blood, immunity, microbes - Blood - Haemostasis and fibrinolysis	Course	6		
B2.2 Blood, immunity, microbes - Blood - Structure and physiology of hemoglobin	Course	5		
B2.2 Blood, immunity, microbes - Blood - Functional anatomy of the hematopoietic system	Course	5		
B2.2 Blood, immunity, microbes - Immunity - Adaptive immunity	Course	24		
B2.2 Blood, immunity, microbes - Immunity - Innate immunity	Course	6		
B2.2 Blood, immunity, microbes - Immunity - Acute and chronique inflammation	Course	4		
B2.2 Blood, immunity, microbes - Immunity - Morphology	Course	1		
B2.2 Blood, immunity, microbes - Microbes - Basic concepts	Course	4		
B2.2 Blood, immunity, microbes - Microbes - Bacteria	Course	4		
B2.2 Blood, immunity, microbes - Microbes - Fungi and parasites	Course	2		
B2.2 Blood, immunity, microbes - Microbes - Diagnostic	Course	4		
B2.2 Blood, immunity, microbes - Microbes - Viruses	Course	2		
B2.2 Blood, immunity, microbes - Microbes - Epidemiology	Course	6		
B2.2 Blood, immunity, microbes - Microbes - Exercise	Exercises	2		
B2.2 Blood, immunity, microbes - General pathology of tissues - Introduction to pathology	Course	3		
B2.2 Blood, immunity, microbes - General pathology of tissues - Oncopathology	Course	1		
B2.2 Blood, immunity, microbes - General pathology of tissues - Inflammatory reactions	Course	2		
B2.2 Blood, immunity, microbes - General pathology of tissues - Vascular pathology	Course	2		
B2.2 Blood, immunity, microbes - Repetitory	Repertory	2		
	Total	85		
BMed2.3 Neurosciences (5 weeks)			Lüthi Anita	9
B2.3 Neuroscience	Course	1		
B2.3 Neuroscience - Introduction to the nervous system - Morphology	Course	7		
B2.3 Neuroscience - Introduction to the nervous system - Pharmacology	Course	4		
B2.3 Neuroscience - Locomotor system - Morphology	Course	7		
B2.3 Neuroscience - Locomotor system - Neurology	Course	6		
B2.3 Neuroscience - Locomotor system - Pharmacology	Course	2		
B2.3 Neuroscience - Sensory systems - Pain/somatosensory system	Course	8		
B2.3 Neuroscience - Sensory systems - Auditory and vestibular system	Course	11		
B2.3 Neuroscience - Sensory systems - Visual system	Course	13		
B2.3 Neuroscience - Cerebral vascularization - Morphology	Course	4		
B2.3 Neuroscience - Cerebral vascularization - Pathologie	Course	2		
B2.3 Neuroscience - Cerebral vascularization - Radiology	Course	2		
	Total	67		

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BMed2.4 Cardiovascular and respiratory systems (5 weeks)			Amati Francesca	9
B2.4 Cardiovascular and respiratory systems - Heart - Cardiac cycle	Course	6		
B2.4 Cardiovascular and respiratory systems - Heart - Morphology	Course	10		
B2.4 Cardiovascular and respiratory systems - Heart - Control	Course	7		
B2.4 Cardiovascular and respiratory systems - Vessels - Fluid dynamics	Course	4		
B2.4 Cardiovascular and respiratory systems - Vessels - Arteries, veins and microcirculation	Course	4		
B2.4 Cardiovascular and respiratory systems - Lungs - Gaz exchange	Course	4		
B2.4 Cardiovascular and respiratory systems - Lungs - Ventilation	Course	3		
B2.4 Cardiovascular and respiratory systems - Lungs - Morphology	Course	11		
B2.4 Cardiovascular and respiratory systems - Lungs - Control	Course	3		
B2.4 Cardiovascular and respiratory systems - Investigations - Functional testing	Course	4		
B2.4 Cardiovascular and respiratory systems - Investigations - Radiology	Course	2		
B2.4 Cardiovascular and respiratory systems - Integration - Pharmacology	Course	3		
B2.4 Cardiovascular and respiratory systems - Integration - Physiopathology	Course	9		
B2.4 Cardiovascular and respiratory systems - Integration - Vignette	Course	7		
	Total	77		
BMed2.5 Digestive system, metabolism (4 weeks)			Tran Christel	7
B2.5 Digestion, metabolism - Digestion - Oral cavity	Course	5		
B2.5 Digestion, metabolism - Digestion - Digestive tract	Course	15		
B2.5 Digestion, metabolism - Digestion - Hepatobiliary-pancreatic system	Course	3		
B2.5 Digestion, metabolism - Digestion - Pathology of the digestive tract	Course	7		
B2.5 Digestion, metabolism - Digestion - Pathology of the hepatobiliary-pancreatic system	Course	4		
B2.5 Digestion, metabolism - Metabolism - Metabolic pathways	Course	21		
B2.5 Digestion, metabolism - Metabolism - Glucose homeostasis	Course	7		
B2.5 Digestion, metabolism - Metabolism - Energy needs and obesity	Course	7		
B2.5 Digestion, metabolism - Metabolism - Nutritional needs	Course	4		
B2.5 Digestion, metabolism - Metabolism - Inherited metabolic diseases	Course	3		
	Total	76		
BMed2.6 Urogenital system and homeostasis (5 weeks)			Würzner Grégoire	9
B2.6 Urogenital system and homeostasis - Tubular exchanges - Physiology	Course	10		
B2.6 Urogenital system and homeostasis - Tubular exchanges - Renal pharmacology	Course	2		
B2.6 Urogenital system and homeostasis - Tubular exchanges - Physiopathologie	Course	13		
B2.6 Urogenital system and homeostasis - Tubular exchanges - Blood pressure	Course	6		
B2.6 Urogenital system and homeostasis - Morphological basis - Perineum and genital organs	Course	13		
B2.6 Urogenital system and homeostasis - Morphological basis - Kidneys and upper urinary tract	Course	10		
B2.6 Urogenital system and homeostasis - Glomerular filtration - Renal function	Course	1		
B2.6 Urogenital system and homeostasis - Glomerular filtration - Renal histology	Course	4		
B2.6 Urogenital system and homeostasis - Glomerular filtration - Acute Kidney failure	Course	4		
B2.6 Urogenital system and homeostasis - Glands and hormones - Reproductive hormones	Course	6		
B2.6 Urogenital system and homeostasis - Glands and hormones - Pharmacology	Course	2		
B2.6 Urogenital system and homeostasis - Glands and hormones - Case	Course	1		
B2.6 Urogenital system and homeostasis - Integration - Pharmacology	Course	1		
B2.6 Urogenital system and homeostasis - Integration - Physiopathology	Course	6		
	Total	79		

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BMed2.7 MSC - Medical care in the community			Senn Nicolas	-
B2.7 Visit to socio-medical centers and Medicine in private practice	Course	2		
B2.7 Medicine in private practice	Seminar	5		
B2.7 Visit to socio-medical centers	Workshop	10		
	Total	17		
BMed2.8 Clinical skills			Félix Sylvie	4
B2.8 Clinical Skills	Course	1		
B2.8 Clinical Skills - History taking and communication - Theoretical bases	Course	11		
B2.8 Clinical Skills - History taking and communication - Practical bases	Seminar	4		
B2.8 Clinical Skills - History taking and communication - Practical bases	Exercises	2		
B2.8 Clinical Skills - History taking and communication - Application	Simulation, with SP	4		
B2.8 Clinical Skills - Emergencies and resuscitation - Theoretical bases	Course	2		
B2.8 Clinical Skills - Emergencies and resuscitation - Practical bases	Exercises	4		
B2.8 Clinical Skills - Nervous system - Theoretical bases	Course	2		
B2.8 Clinical Skills - Nervous system - Practical bases	Exercises	2		
B2.8 Clinical Skills - Nervous system - Application	Simulation, with SP	1		
B2.8 Clinical Skills - Cardio-vascular and respiratory systems - Theoretical bases	Course	2		
B2.8 Clinical Skills - Cardio-vascular and respiratory systems - Practical bases	Exercises	4		
B2.8 Clinical Skills - Cardio-vascular and respiratory systems - Application	Simulation, with SP	1		
B2.8 Clinical Skills - Digestive system - Theoretical bases	Course	1		
B2.8 Clinical Skills - Digestive system - Practical bases	Exercises	1		
B2.8 Clinical Skills - Digestive system - Application	Simulation, with SP	1		
B2.8 Clinical Skills - Formative evaluation - Application	Répétitoire	1		
	Total	44		
BMed2.9 Optional courses - Themes to choose from	Course	22	Regazzi Romano	1
- Brain cells in action				
- Defining issues and strategies for medicine of population				
- Dietary sugars and health: from beneficial effects to athletes to deleterious effects in sedentary individuals				
- Genomic discoveries and personalized medicine				
- Hip in all its forms				
- Immunology, inflammation, cancer				
- Stem cells and their use for medicine				
- The mysteries of sleep				
- Transgenic mice as animal model for diseases				
- Understanding and targeting the biology of aging				
- Research Design Workshops				

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Modules and domains	Components	Nb hours	Coordinator	Credits
BMed2.10 Pratical work			Regazzi Romano	5
B2.10 Pratical work - Laboratory techniques - Biochemistry	Practical work	24		
B2.10 Pratical work - Bases of pharmacology - Pharmacology	Practical work	5		
B2.10 Pratical work - Endocrine system - Histology	Practical work	2		
B2.10 Pratical work - Prevention and diagnostic - Microbiology	Practical work	4		
B2.10 Pratical work - Prvention and diagnostics - Hospital hygiene	Practical work	2		
B2.10 Pratical work - Immune system - Histology	Practical work	4		
B2.10 Pratical work - Nervous system - Anatomy	Practical work	4		
B2.10 Pratical work - Nervous system - Histology	Practical work	2		
B2.10 Pratical work - Nervous system - Neurosciences	Practical work	7		
B2.10 Pratical work - Nervous System - Radiology	Practical work	2		
B2.10 Pratical work - Cardiovascular and respiratory systems - Anatomy	Practical work	8		
B2.10 Pratical work - Cardiovascular and respiratory systems - Histology	Practical work	4		
B2.10 Pratical work - Cardiovascular and respiratory systems - Physiology	Practical work	2		
B2.10 Pratical work - Cardiovascular and respiratory systems - Radiology	Practical work	2		
B2.10 Pratical work - Digestive system - Anatomy	Practical work	6		
B2.10 Pratical work - Digestive system - Histology	Practical work	4		
B2.10 Pratical work - Digestive system - Radiology	Practical work	2		
B2.10 Pratical work - Urogenital system - Anatomy	Practical work	3		
B2.10 Pratical work - Urogenital system - Histology	Practical work	6		
B2.10 Pratical work - Urogenital system - Pathology	Practical work	2		
B2.10 Pratical work - Urogenital system - Radiology	Practical work	2		
	Total	97		