

2nd year Bachelor 2020-2021 - 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 - Glands and hormones - Morphology of endocrine organs	Course	5		
B2.1 Cells and signals - Glands and hormones - Physiology of parathyroid glands	Course	2		
B2.1 Cells and signals - Glands and hormones - Physiology of surrenal glands	Course	2		
B2.1 Cells and signals - Glands and hormones - Physiology of thyroid glands	Course	3		
B2.1 Cells and signals - Glands and hormones - Physiology of the neuroendocrine system	Course	5		
B2.1 Cells and signals - Introduction to the nervous system - Autonomus nervous system	Course	6		
B2.1 Cells and signals - Pharmacology - Basis of pharmacology	Course	8		
B2.1 Cells and signals - Pharmacology - Basis of pharmacology	Exercises	1		
B2.1 Cells and signals - Radiology - Basis of nuclear medecine	Course	2		
B2.1 Cells and signals - Radiology - Basis of radiology	Course	4		
B2.1 Cells and signals - Radiology - Basis of radiotherapy	Course	2		
B2.1 Cells and signals - Intracellular signaling - Molecular and cellular pathology	Course	8		
B2.1 Cells and signals - Intracellular signaling - Signal transduction	Course	12		
	Total	60		
BMed2.2 Blood, immunity, infection (5 weeks)				
			Greub Gilbert	9
B2.2 Blood, immunity, infection - Immunity - Adaptive immunity	Course	22		
B2.2 Blood, immunity, infection - Immunity - Innate immunity	Course	6		
B2.2 Blood, immunity, infection - Immunity - Acute and chronique inflammation	Course	5		
B2.2 Blood, immunity, infection - Immunity - Tissue repair	Course	4		
B2.2 Blood, immunity, infection - Infection - Bacteria	Course	4		
B2.2 Blood, immunity, infection - Infection - Mushrooms and parasites	Course	1		
B2.2 Blood, immunity, infection - Infection - Basic concepts	Course	3		
B2.2 Blood, immunity, infection - Infection - Diagnostic	Course	4		
B2.2 Blood, immunity, infection - Infection - Epidemiology	Course	5		
B2.2 Blood, immunity, infection - Infection - Vignette	Course	1		
B2.2 Blood, immunity, infection - Infection - Virus	Course	2		
B2.2 Blood, immunity, infection - Cancer pathology - Morphological basis of cancer diagnostics	Course	4		
B2.2 Blood, immunity, infection - Cancer pathology - Basic concepts in oncogenesis and metastasis formation	Course	8		
B2.2 Blood, immunity, infection - Cancer pathology - Vignette	Course	1		
B2.2 Blood, immunity, infection - Blood - Functional anatomy of the hematopoietic system	Course	6		
B2.2 Blood, immunity, infection - Blood - Haemostasis and fibrinolysis	Course	6		
B2.2 Blood, immunity, infection - Blood - Structure and physiology of hemoglobin	Course	5		
B2.2 Blood, immunity, infection - Blood - Vignette	Course	1		
	Total	88		

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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		
B2.3 Neuroscience - Cerebral vascularization - Radiology	Practical work	2		
	Total	69		
BMed2.4 Breathing and circulation (5 weeks)				
			Amati Francesca	9
B2.4 Cardiovascular and respiratory systems - Heart - Cardiac cycle	Course	5		
B2.4 Cardiovascular and respiratory systems - Heart - Morphology	Course	16		
B2.4 Cardiovascular and respiratory systems - Heart - Control	Course	7		
B2.4 Cardiovascular and respiratory systems - Heart - Perfusion	Course	2		
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	6		
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	8		
B2.4 Cardiovascular and respiratory systems - Integration - Vignette	Course	8		
	Total	79		
BMed2.5 Digestive system, metabolism (4 weeks)				
			Regazzi Romano	7
B2.5 Digestion, metabolism - Digestion - Oral cavity	Course	5		
B2.5 Digestion, metabolism - Digestion - Hepatobiliary-pancreatic system	Course	3		
B2.5 Digestion, metabolism - Metabolism - Nutritional needs	Course	3		
B2.5 Digestion, metabolism - Metabolism - Regulation	Course	14		
B2.5 Digestion, metabolism - Digestion - Pathology of the hepatobiliary-pancreatic system	Course	4		
B2.5 Digestion, metabolism - Digestion - Pathology of the digestive tract	Course	7		
B2.5 Digestion, metabolism - Digestion - Digestive tract	Course	15		
B2.5 Digestion, metabolism - Metabolism - Metabolic pathways	Course	23		
	Total	74		

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Modules and domains	Components	Nb hours	Coordinator	Credits
BMed2.6 Urogenital system and homeostasis (5 weeks)				
			Bonny Olivier	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		
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 Monti Matteo	4
B2.8 Clinical skills - 2.1	Practical work	23		
B2.8 Clinical skills - 2.2	Practical work	10		
B2.8 Clinical skills - 2.3	Practical work	12		
B2.8 Clinical skills - 2.4	Practical work	12		
B2.8 Clinical skills - 2.5	Practical work	6		
B2.8 Clinical skills - 2.6	Practical work	9		
	Total	72		
BMed2.9 Optional courses - Themes to choose from				
	Course	10	Regazzi Romano	1
- Hip in all its forms				
- Brain cells in action				
- Immunology, inflammation, cancer				
- Transgenic mice as animal model for diseases				
- Genomic discoveries and personalized medicine				
- The mysteries of sleep				
- Defining issues and strategies for medicine of population				
- Dietary sugars and health: from beneficial effects to athletes to deleterious effects in sedentary individuals				
- Stem cells and their use for medicine				

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Modules and domains	Components	Nb hours	Coordinator	Credits
BMed2.10 Pratical work			Regazzi Romano	5
B2.10 Pratical work - Anatomy	Practical work	21		
B2.10 Pratical work - Biochemistry	Practical work	20		
B2.10 Pratical work - Histology	Practical work	24		
B2.10 Pratical work - Microbiology	Practical work	15		
B2.10 Pratical work - Neurosciences	Practical work	4		
B2.10 Pratical work - Pathology	Practical work	2		
B2.10 Pratical work - Pharmacology	Practical work	5		
B2.10 Pratical work - Physiology	Practical work	2		
B2.10 Pratical work - Radiology	Practical work	8		
	Total	101		