

1st year Bachelor 2022-2023 - Prof. François Bochud, year coordinator

Individual hours of work are not explicitly listed

Modules and domains	Components	Nb hours	Coordinator	Credits
BMed1.1 Matter (8 weeks)			Bochud François	15
B1.1 Matter - Physics - Introduction to physics	Course	3		
B1.1 Matter - Physics - Matter, energy, wave and force	Course	6		
B1.1 Matter - Physics - Mechanics	Course	6		
B1.1 Matter - Physics - Electromagnetism	Course	4		
B1.1 Matter - Physics - Non-ionizing radiation	Course	6		
B1.1 Matter - Physics - Ionizing radiation	Course	7		
B1.1 Matter - Physics - Thermodynamics	Course	4		
B1.1 Matter - General chemistry - Introduction to general chemistry	Course	2		
B1.1 Matter - General chemistry - Atomic structure and chemical bond	Course	6		
B1.1 Matter - General chemistry - Stoichiometry of chemical reactions	Course	3		
B1.1 Matter - General chemistry - Thermodynamics of chemical reactions	Course	5		
B1.1 Matter - General chemistry - Ligand fixation reaction	Course	3		
B1.1 Matter - General chemistry - Proton transfer reaction	Course	4		
B1.1 Matter - General chemistry - Electron transfer reaction	Course	4		
B1.1 Matter - General chemistry - Aqueous solutions	Course	3		
B1.1 Matter - General chemistry - Chemical kinetics	Course	4		
B1.1 Matter - General chemistry - Analytical chemistry	Course	2		
B1.1 Matter - General chemistry - Exercises	Exercices	14		
B1.1 Matter - Organic chemistry - General principles of organic chemistry	Course	5		
B1.1 Matter - Organic chemistry - Functional groups in organic chemistry	Course	20		
B1.1 Matter - Organic chemistry - Main classes of biological substances	Course	11		
B1.1 Matter - Organic chemistry - Some important classes of drugs	Course	1		
B1.1 Matter - Organic chemistry - Exercises	Exercices	9		
B1.1 Matter - Repetitory	Répétitoire	6		
	Total	138		

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Modules and domains	Components	Nb hours	Coordinator	Credits
BMed1.2 Cell and tissues (6 weeks)			Broz Petr	12
B1.2 Cell and tissues - Cell biology - Cell, genes and genetic information	Course	16		
B1.2 Cell and tissues - Cell biology - Protein structure and function	Course	10		
B1.2 Cell and tissues - Cell biology - Membranes	Course	12		
B1.2 Cell and tissues - Cell biology - Organelles and vesicular trafficking	Course	8		
B1.2 Cell and tissues - Cell biology - Cell cycle and cell differentiation	Course	8		
B1.2 Cell and tissues - Cell biology - Signal transduction	Course	8		
B1.2 Cell and tissues - Tissue biologie - Connective tissue	Course	6		
B1.2 Cell and tissues - Tissue biologie - Connective tissue	Practical work	2		
B1.2 Cell and tissues - Tissue biologie - Bones and cartilage	Course	6		
B1.2 Cell and tissues - Tissue biologie - Blood and hematopoiesis	Course	6		
B1.2 Cell and tissues - Tissue biologie - Blood and hematopoiesis	Practical work	2		
B1.2 Cell and tissues - Tissue biologie - Epithelia	Course	6		
B1.2 Cell and tissues - Tissue biologie - Epithelia	Practical work	2		
B1.2 Cell and tissues - Tissue biologie - Muscles	Course	5		
B1.2 Cell and tissues - Tissue biologie - Muscles	Practical work	2		
B1.2 Cell and tissues - Tissue biologie - Nervous tissue	Course	8		
B1.2 Cell and tissues - Tissue biologie - Nervous tissue	Practical work	2		
	Total	109		
BMed1.3 Development and genetics (4 weeks)			Cadas Hugues	11
B1.3 Developpement and genetics	Course	1		
B1.3 Developpement and genetics - Developpement - Human embryology	Course	22		
B1.3 Developpement and genetics - Developpement - Human embryology	Practical work	10		
B1.3 Developpement and genetics - Developpement - Animal embryology	Course	10		
B1.3 Developpement and genetics - Genetics - Molecular genetics	Course	8		
B1.3 Developpement and genetics - Genetics - General genetics	Course	12		
	Total	63		
BMed1.4 Locomotor system (5 weeks)			Puyal Julien	11
B1.4 Locomotor system - Anatomy of the locomotor system - Organization of the locomotor system	Course	2		
B1.4 Locomotor system - Anatomy of the locomotor system - Anatomy of the upper limb	Course	10		
B1.4 Locomotor system - Anatomy of the locomotor system - Anatomy of the spine and spinal cord	Course	3		
B1.4 Locomotor system - Anatomy of the locomotor system - Anatomy of the lower limb	Course	13		
B1.4 Locomotor system - Anatomy of the locomotor system - Motor system	Course	5		
B1.4 Locomotor system - Anatomy of the locomotor system - Biomechanics	Course	10		
B1.4 Locomotor system - Anatomy of the locomotor system - Practical work	Practical work	15		
B1.4 Locomotor system - Anatomy of the locomotor system - Practical work	Répétitoire	0		
B1.4 Locomotor system - Physiology of the locomotor system - Neuronal physiology	Course	8		
B1.4 Locomotor system - Physiology of the locomotor system - Muscle physiology	Course	6		
B1.4 Locomotor system - Physiology of the locomotor system - Physiopathology	Course	4		
	Total	76		

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Modules and domains	Components	Nb hours	Coordinator	Credits
BMed1.5 MSC - Public health and social studies of medicine (5 weeks)			Fauvel Aude Saraga Michaël	11
B1.5 Medical humanities - The module in perspective	Course	3		
B1.5 Epidemiology and statistics - Statistics	Course	10		
B1.5 Medical humanities - Social studies of biomedicine	Course	8		
B1.5 Medical humanities - Historical foundations of medicine	Course	8		
B1.5 Medical humanities - Patient-caregiver interaction	Course	8		
B1.5 Medical humanities - Introduction to the basics of medical ethics	Course	8		
B1.5 Medical humanities - Introduction to human sciences in medicine	Course	8		
B1.5 Medical humanities - Medical practice in a healthcare system	Course	8		
B1.5 Medical humanities - Patients, rights, obligations, stakes	Course	6		
B1.5 Medical humanities - Anthropological aspects of health and medicine	Course	8		
B1.5 Epidemiology and statistics - Exercises	Exercises	4		
B1.5 Epidemiology and statistics - Epidemiology	Course	6		
B1.5 Medical humanities - Sustainability and health	Course	2		
B1.5 - Elective seminar	Seminar	12		
	Total	99		