

Plan d'études

Mineur : Technologies biomédicales 2024-25

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Cours				Session Examen	Examen	Crédits
Lang.	Code	Sect.	Enseignants			
Analog circuits for biochip						
E	EE-518	EL	Carrara Schmid Skrivervik	Eté	Ecrit	3
Applied biomedical signal processing						
E	EE-512	EL	Lemay	Hiv	Ecrit	4
Basics in bioinstrumentation						
E	BIOENG-421	SV	Merten	Hiv	Pendant le semestre	4
Bioelectronics and biomedical microelectronics						
E	EE-519	EL	Schmid	Hiv	Ecrit	3
Bioimage informatics						
E	BIO-410	SV	Sage Seitz	Eté	Ecrit	4
Biomechanics of the cardiovascular system						
E	ME-481	GM	Stergiopoulos	Eté	Ecrit	3
Biomechanics of the musculoskeletal system						
E	ME-482	GM	Pioletti	Eté	Pendant le semestre	5
Biomedical optics						
E	BIOENG-445	SV	Wagnières	Hiv	Oral	3
Biomicroscopy I						
E	MICRO-561	SV	Altug	Hiv	Ecrit	4
Biomicroscopy II						
E	MICRO-562	SV	Altug Seitz	Eté	Pendant le semestre	4
Bio-nano-chip design						
E	EE-517	EL	Carrara	Hiv	Ecrit	4
Biophysics : physics of biological systems						
E	PHYS-302	PH	Rahi	Hiv	Pendant le semestre	4
Biophysics : physics of the cell						
E	PHYS-301	PH	Manley	Eté	Ecrit	3
Cellular biology and biochemistry for engineers						
E	BIO-105	SV	Zufferey	Hiv	Ecrit	4
Computational neurosciences: neuronal dynamics						
E	NX-465	NX	Gerstner	Eté	Ecrit	5
Fundamentals of biomedical imaging						
E	PHYS-438	PH	Gruetter	Eté	Ecrit	4
Fundamentals of biophotonics						
E	BIO-443	SV	Radenovic	Eté	Pendant le semestre	3
Fundamentals of biosensors and electronic biochips						
E	EE-515	EL	Guiducci	Hiv	Ecrit	3
Ingénierie optique (pour MT)						
F	MICRO-321(a)	MT	Achouri Martin	Hiv	Ecrit	6
Light, liquids and interfaces						
E	MICRO-390	MT	Roke	Eté	Ecrit	4

Mechanobiology: how mechanics regulate life						
E	ME-480	GM	Persat Sakar	Hiv	Pendant le 4 semestre	
Microfabrication technologies						
E	MICRO-331	MT	Brugger	Hiv	Ecrit	4
MRI Practicals on CIBM preclinical imaging systems						
E	PHYS-473	PH	Cudalbu Moldovan Lanz	Hiv	Pendant le 3 semestre	
Nanobiotechnology						
E	CH-413	CGC	Steinauer	Eté	Pendant le 3 semestre	
Neural interfaces						
E	NX-422	NX	Lacour Shoaran	Hiv	Pendant le 6 semestre	
Neural signals and signal processing						
E	NX-421	NX	Micera Van De Ville	Hiv	Ecrit	6
Neuroscience: cellular and circuit mechanisms						
E	BIO-482	SV	Crochet Petersen	Hiv	Pendant le 5 semestre	
New tools & research strategies in personalized health						
E	BIO-491	SV	Friedli	Eté	Pendant le 4 semestre	
Numerical methods in biomechanics						
E	ME-484	GM	Terrier	Eté	Ecrit	3
Physiologie par systèmes						
F	BIO-377	SV	Roy	Eté	Ecrit	4
Project in biomedical technologies						
E	MICRO-563	MT	Profs divers	Eté Hiv	Pendant le 8 semestre	
Regulatory, quality and clinical affairs						
E	NX-451	NX	Rochat	Eté	Pendant le 2 semestre	
Seminar in physiology and instrumentation						
	MICRO-568	MT	Radenovic	Hiv	Ecrit	2
Sensors in medical instrumentation						
E	EE-511	EL	Chételat Ionescu	Eté	Ecrit	3
Translational neuroengineering						
E	NX-423	NX	Blanke Courtine Hummel Micera	Eté	Ecrit	6