Studies Plan

Mineur: Technologies biomédicales 2025-26

Minor: Biomedical Technologies

	Courses			Exam Session	Exam	Credit		
Lang.	Code	Sect.	Teacher					
_	Analog circuit			0	146-200	0		
E	EE-518	EL	Carrara	Sum	Written	3		
			Schmid					
	Applied biome	dical si	Skrivervik					
	processing	Juicai Si	giiai					
Ε	EE-512	EL	Lemay	Win	Written	4		
	Basics in bioi	nstrume						
Ε	BIOENG-421	SV	Merten	Win	During the	4		
					semester			
	Bioelectronics							
_	biomedical mi			147	147.50			
E	EE-519	EL	Schmid	Win	Written	3		
E	Bioimage info BIO-410	rmatics SV	Coco	Sum	Written	4		
	BIO-410	SV	Sage Seitz	Sum	vviilleri	4		
	Biomechanics	of the	Jenz					
	cardiovascula		n					
Ε	ME-481	GM	Stergiopoulos	Sum	Written	3		
	Biomechanics	of the	a tangrap a tana					
	musculoskele	tal syste	em					
Ε	ME-482	GМ	Pioletti	Sum	During the	5		
					semester			
	Biomedical op							
E	BIOENG-445	SV	Wagnières	Win	Oral	3		
_	Bio-nano-chip		_	147	147.50			
<u>E</u>	EE-517	EL	Carrara	Win	Written	4		
	Biophysics : p		ot					
E	biological sys PHYS-302	tems PH	Rahi	Win	During the	1		
_	PH13-302	ГΠ	Raili	VVIII	During the semester	4		
	Biophysics : p	hysics	of the		Serriester			
	cell	, 0.00	00					
Ε	PHYS-301	PH	Manley	Sum	Written	3		
	Cellular biolog	gy and	· · · · · · · · · · · · · · · · · · ·					
	biochemistry	for engi	neers					
<u>E</u>	BIO-105	SV	Zufferey	Win	Written	4		
	Computational							
	neurosciences: neuronal							
_	dynamics	AIN	0	C	14/11/44 - 1-	_		
<u>E</u>	NX-465	NX	Gerstner	Sum	Written	5		
E	Experimental MICRO-562	SV	Altug	Sum	During the	1		
_	WICKO-302	31	Seitz	Sum	semester	4		
	Fundamentals	of bion			3011103101			
	imaging							
E	PHYS-438	PH	Xin	Sum	Written	4		
	Fundamentals							
	biomicroscop							
E	MICRO-561	SV	Altug	Win	Written	4		
	Fundamentals	of						
_	biophotonics			_		_		
E	BIO-443	SV	Radenovic	Sum	During the	3		
	Eundomont-1-	of bis-	oncoro		semester			
	Fundamentals							
E	and electronic EE-515	EL EL	ps Guiducci	Win	Written	3		
	Light, liquids			VVII I	VVIILLEII	J		
Е	MICRO-390	MT	Roke	Sum	Written	4		
	Mechanobiolo			34111	77771077	•		
	mechanics reg							
E	ME-480	GM		Win	During the	4		
_	- -				semester			

1

_	technologies		_			
Ε	MICRO-331	MT	Brugger	Win	Written	4
	MRI Practicals	on CIE	Zhang RM			
	preclinical ima					
Ε	PHYS-473	PH	Cudalbu	Win	During the	4
			Moldovan		semester	
			Lanz			
			Lê			
_	Nanobiotechn		O	•	5	•
Ε	CH-413	CGC	Steinauer	Sum	During the	3
	Neural interfac	200			semester	
E	NX-422	NX	Lacour	Win	During the	6
_	101 122	7 47 (Shoaran	••••	semester	Ü
	Neural signals	and si	gnal			
	processing		_			
Е	NX-421	NX	Micera	Win	Written	6
			Van De			
	Neuroscience	· collul	Ville			
	circuit mechai		ai allu			
E	BIO-482	SV	Crochet	Win	During the	5
_			Petersen		semester	•
	New tools & re	esearch				
	strategies in p	ersona	lized			
_	health	.	- "			
Ε	BIO-491	SV	Fellay	Sum	During the	4
	<u> </u>		Friedli		semester	
	Milimorical mo	thade i	n			
	Numerical me biomechanics		n			
Ε			n <i>Terrier</i>	Sum	Written	3
	biomechanics	GM	Terrier	Sum	Written	3
<u>E</u> F	biomechanics ME-484	GM eering (Terrier for MT) Achouri	Sum Win	Written Written	3 6
	biomechanics ME-484 Optical engine MICRO-321(a)	GM eering (MT	Terrier for MT) Achouri Martin			
F	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by	GM eering (MT	Terrier for MT) Achouri Martin ns	Win	Written	6
	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377	GM eering (MT systen	Terrier for MT) Achouri Martin ns Roy			
F	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bior	GM eering (MT systen	Terrier for MT) Achouri Martin ns Roy	Win	Written	6
F	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377	GM eering (MT systen	Terrier for MT) Achouri Martin ns Roy	Win	Written	6
F F	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bior technologies MICRO-563	GM eering (MT system SV nedical	Terrier for MT) Achouri Martin ns Roy Profs divers	Win	Written	6
F F	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bior technologies MICRO-563 Regulatory, qu	GM eering (MT v syster SV nedical MT	Terrier for MT) Achouri Martin ns Roy Profs divers	Win Sum Sum	Written Written During the	6
F 	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bion technologies MICRO-563 Regulatory, quelinical affairs	GM eering (MT syster SV nedical MT	Terrier for MT) Achouri Martin ns Roy Profs divers	Win Sum Sum Win	Written Written During the semester	6 4 8
F F	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bior technologies MICRO-563 Regulatory, qu	GM eering (MT v syster SV nedical MT	Terrier for MT) Achouri Martin ns Roy Profs divers	Win Sum Sum	Written Written During the semester During the	6 4 8
F 	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bior technologies MICRO-563 Regulatory, quelinical affairs NX-451	GM eering (MT v system SV nedical MT uality and	Terrier for MT) Achouri Martin ns Roy Profs divers nd Rochat	Win Sum Sum Win	Written Written During the semester	6 4 8
F 	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bior technologies MICRO-563 Regulatory, quelinical affairs NX-451 Seminar in ph	GM eering (MT v system SV nedical MT uality an NX ysiolog	Terrier for MT) Achouri Martin ns Roy Profs divers nd Rochat	Win Sum Sum Win	Written Written During the semester During the	6 4 8
F 	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bior technologies MICRO-563 Regulatory, quelinical affairs NX-451	GM eering (MT v system SV nedical MT uality an NX ysiolog	Terrier for MT) Achouri Martin ns Roy Profs divers nd Rochat	Win Sum Sum Win	Written Written During the semester During the	6 4 8
F 	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bior technologies MICRO-563 Regulatory, quelinical affairs NX-451 Seminar in phinstrumentation	GM eering (MT y system SV medical MT uality an NX ysiologon MT	Terrier for MT) Achouri Martin ns Roy Profs divers nd Rochat	Win Sum Sum Win	Written Written During the semester During the semester	6 4 8 3
<i>E</i>	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bior technologies MICRO-563 Regulatory, qualifical affairs NX-451 Seminar in phinstrumentatic MICRO-568 Sensors in mainstrumentatic instrumentation	GM eering (MT y system SV medical MT uality an NX ysiologon MT edical on	Terrier for MT) Achouri Martin ns Roy Profs divers nd Rochat y and Radenovic	Win Sum Win Sum Win	Written Written During the semester During the semester Written	6 4 8 3
F 	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bion technologies MICRO-563 Regulatory, quelinical affairs NX-451 Seminar in phinstrumentatic MICRO-568 Sensors in me	GM eering (MT y system SV medical MT uality an NX ysiologon MT edical	Terrier for MT) Achouri Martin ns Roy Profs divers nd Rochat y and Radenovic Chételat	Win Sum Sum Win	Written Written During the semester During the semester	6 4 8 3
<i>E</i>	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bior technologies MICRO-563 Regulatory, qualinical affairs NX-451 Seminar in phinstrumentatic MICRO-568 Sensors in mainstrumentatic EE-511	GM eering (MT y system SV medical MT uality an NX ysiologon MT edical on	Terrier for MT) Achouri Martin ns Roy Profs divers nd Rochat y and Radenovic	Win Sum Win Sum Win	Written Written During the semester During the semester Written	6 4 8 3
<i>E</i>	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bion technologies MICRO-563 Regulatory, qualinical affairs NX-451 Seminar in phi instrumentation MICRO-568 Sensors in mei instrumentation EE-511 Translational	GM eering (MT v syster SV medical MT vality and MT vality and MT edical on EL	Terrier for MT) Achouri Martin ns Roy Profs divers nd Rochat y and Radenovic Chételat	Win Sum Win Sum Win	Written Written During the semester During the semester Written	6 4 8 3
E	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bior technologies MICRO-563 Regulatory, qualifical affairs NX-451 Seminar in phinstrumentation MICRO-568 Sensors in mainstrumentation EE-511 Translational neuroenginee	GM eering (MT v system SV medical MT vality and MX ysiologon MT edical on EL	Terrier for MT) Achouri Martin ns Roy Profs divers nd Rochat y and Radenovic Chételat lonescu	Win Sum Win Sum Win Sum	Written During the semester During the semester Written Written	6 4 8 3 2 3
<i>E</i>	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bion technologies MICRO-563 Regulatory, qualinical affairs NX-451 Seminar in phi instrumentation MICRO-568 Sensors in mei instrumentation EE-511 Translational	GM eering (MT v syster SV medical MT vality and MT vality and MT edical on EL	Terrier for MT) Achouri Martin ns Roy Profs divers nd Rochat y and Radenovic Chételat	Win Sum Win Sum Win	Written Written During the semester During the semester Written	6 4 8 3
E	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bior technologies MICRO-563 Regulatory, qualifical affairs NX-451 Seminar in phinstrumentation MICRO-568 Sensors in mainstrumentation EE-511 Translational neuroenginee	GM eering (MT v system SV medical MT vality and MX ysiologon MT edical on EL	Terrier for MT) Achouri Martin ns Roy Profs divers nd Rochat ny and Radenovic Chételat lonescu Blanke	Win Sum Win Sum Win Sum	Written During the semester During the semester Written Written	6 4 8 3 2 3
E	biomechanics ME-484 Optical engine MICRO-321(a) Physiology by BIO-377 Project in bior technologies MICRO-563 Regulatory, qualifical affairs NX-451 Seminar in phinstrumentation MICRO-568 Sensors in mainstrumentation EE-511 Translational neuroenginee	GM eering (MT v system SV medical MT vality and MX ysiologon MT edical on EL	Terrier for MT) Achouri Martin ns Roy Profs divers nd Rochat ny and Radenovic Chételat lonescu Blanke Courtine	Win Sum Win Sum Win Sum	Written During the semester During the semester Written Written	6 4 8 3 2 3