

Studies Plan

Mineur : Ingénierie des Sciences du vivant 2024-25

Minor : Life Sciences Engineering

Courses			Exam Session	Exam	Credit
Language	Code	Section	Teacher		
E		Biomechanics of the musculoskeletal system			
E	ME-482	GM	Pioletti	Sum	During the 5 semester
E		Biomicroscopy I			
E	MICRO-561	SV	Altug	Win	Written 4
E		Cancer biology I			
E	BIO-471	SV	Lingner Oricchio	Win	During the 5 semester
E		Cellular biology and biochemistry for engineers			
E	BIO-105	SV	Zufferey	Win	Written 4
E		Computational cell biology			
E	BIOENG-455	SV	Shillcock	Win	During the 4 semester
E		Deep learning in biomedicine			
E	CS-502	IN		Sum	During the 6 semester
E		Digital epidemiology			
E	BIO-512	SV	Salathé	Sum	During the 4 semester
E		Genomics and bioinformatics			
E	BIO-463	SV	Bitbol Luisier Rougemont	Sum	During the 4 semester
E		Image processing I			
E	MICRO-511	MT	Unser Van De Ville	Win	Written 3
E		Immunology - advances and therapeutic implications			
E	BIO-479	SV		Win	Written 5
E		Infection biology			
E	BIO-477	SV		Sum	Written 5
E		Lab immersion I			
E	BIO-501	SV	Profs divers	Sum Win	During the 8 semester
E		Mechanobiology: how mechanics regulate life			
E	ME-480	GM	Persat Sakar	Win	During the 4 semester
E		Molecular endocrinology: health and environment			
E	BIO-450	SV	Briskin	Win	During the 4 semester
E		Neuroscience: from molecular mechanisms to disease			
E	BIO-480	SV	Gräff Mahul Mellier Schneider	Win	Written 5
E		New tools & research strategies in personalized health			
E	BIO-491	SV	Friedli Trono	Sum	During the 4 semester
E		Next-generation biomaterials			
E	BIOENG-458	SV	Persat Tang	Sum	Written 4
E		Randomness and information in biological data			
E	BIO-369	SV	Bitbol	Sum	Written 4
E		Single cell biology			
E	BIOENG-420	SV	D'Angelo Deplancke	Sum	During the 4 semester

<i>E</i>	Stem cells and organoids <i>BIO-447</i> <i>SV</i>	<i>Karthaus</i> <i>Radtke</i> <i>Suter</i>	<i>Win</i>	<i>Written</i>	<i>3</i>
<i>E</i>	Structural biology <i>BIO-315</i> <i>SV</i>	<i>Dal</i> <i>Peraro</i>	<i>Sum</i>	<i>During the</i> <i>semester</i>	<i>4</i>
<i>E</i>	Synthetic biology <i>BIOENG-320</i> <i>SV</i>	<i>Barth</i>	<i>Sum</i>	<i>Written</i>	<i>4</i>