

## Baccalauréat universitaire ès Sciences en biologie - 3e année - Printemps 2024

### Modelling in Biology and Bioinformatics

Responsible : N. Salamin

<u>TEACHING</u>	<u>RESPONSIBLE</u> <u>Teaching staff</u>	<u>ROOM</u>	<u>HOURS</u>
Advanced Programming and Algorithms	N. Salamin	BIO/Amphi	4 C + 4 E
Bayesian Inference and Markov Models	N. Salamin, Z. Kutalik	BIO/Amphi	4 C + 4 E
Introduction to Image Analysis	N. Salamin, J. Richiardi, A. Ravera, S. Bergmann	BIO/Amphi except 06.05 ans 13.05.24 (p.m.) : GEN/A	6 C + 6 E
Introduction to Machine Learning	M. Cuendet	BIO/Amphi	8 C + 4 E
Mathematics in Biology	A.-S. Malaspinas, S. Bergmann	BIO/Amphi except 29.04 (p.m.) : GEN/A	6 C + 6 E
Modelling / Bioinformatics Project	S. Bergmann, tutors	BIO/Amphi except: 14.05, 27.05 (pm), 29.05 and 30.05.24 : GEN/A	4 C + 32 PW
Introduction to the Module - 29.04.2024	N. Salamin	BIO/Amphi	
Project Presentation - 29.04.2024	N. Salamin	GEN/A	

**WEEK 10: 29.04 to 03.05**

	mo 29	tu 30	we 01	th 02	fr 03
08:00	Intro Module	C-Advanced Programming and Algorithms	E-Advanced Programming and Algorithms	C-Introduction to Machine Learning	Enseignements optionnels
10:15	C-Mathematics in Biology	C-Mathematics in Biology	C-Mathematics in Biology	C-Introduction to Machine Learning	
12:15	E-Mathematics in Biology GEN/A				
14:15	Project Presentation GEN/A	E-Mathematics in Biology	E-Mathematics in Biology	C - Modelling / Bioinformatics Project	
16:15			C-Introduction to Image Analysis		
18:15					

**WEEK 11: 06.05 to 10.05**

	mo 06	tu 07	we 08	th 09	fr 10
08:00			C-Introduction to Machine Learning	Ascension	Enseignements optionnels
10:15	C-Introduction to Image Analysis	C-Advanced Programming and Algorithms	E-Introduction to Machine Learning		
12:15					
14:15	E-Intro to Image Analysis GEN/A	E-Advanced Programming and Algorithms	C-Bayesian Inference and Markov Models		
16:15			E-Bayesian Inference and Markov Models		
18:15					

**WEEK 12: 13.05 to 17.05**

	mo 13	tu 14	we 15	th 16	fr 17
08:00					Enseignements optionnels
10:15	C-Introduction to Image Analysis	PW-Modelling / Bioinformatics Project	PW-Modelling / Bioinformatics Project		
12:15					
14:15	E-Intro to Image Analysis GEN/A	PW-Modelling / Bioinformatics Project GEN/A	PW-Modelling / Bioinformatics Project	E-Introduction to Image Analysis	
16:15					
18:15					

**WEEK 13: 20.05 to 24.05**

	mo 20	tu 21	we 22	th 23	fr 24
08:00	Pentecôte	C-Introduction to Machine Learning			Enseignements optionnels
10:15		E-Introduction to Machine Learning	PW-Modelling / Bioinformatics Project		
12:15					
14:15		C-Bayesian Inference and Markov Models	PW-Modelling / Bioinformatics Project		
16:15		E-Bayesian Inference and Markov Models			
18:15					

**WEEK 14: 27.05 to 31.05**

	mo 27	tu 28	we 29	th 30	fr 31
08:00					Dés Académiques
10:15	PW-Modelling / Bioinformatics Project	PW-Modelling / Bioinformatics Project	PW - Modelling / Bioinformatics Project/GEN/A		
12:15					
14:15	PW-Modelling / Bioinformatics Project GEN/A	PW-Modelling / Bioinformatics Project		C - Modelling / Bioinformatics Project/GEN/A	
16:15					
18:15				Mystères UNIL	