

Studies Plan

Informatique 2020-21

Block D

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit		
Language	Code	Section	Teacher	I	e	p	I	e	p	I	e	p
E	Introduction to database systems CS-322		IN	Ailamaki Koch			2h 1h 1h			Sum	Written	4
E	Introduction to operating systems CS-323		IN	Payer			2h 1h 2h			Win	Written	5
E	Software development project CS-306		IN	Candea			4h			Sum	During the semester	4
E	Software engineering CS-305		IN	Candea			2h 1h 1h			Win	Written	4

Block E

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit		
Language	Code	Section	Teacher	I	e	p	I	e	p	I	e	p
E	Computer security COM-301	SC	González Troncoso				2h	1h	1h	Win	During the semester	4
E	Introduction to multiprocessor architecture CS-307	IN	Falsafi				2h	1h		Win	Written	4

Group I "Project"

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Language	Code	Section	Teacher	I e p	I e p	I e p	I e p			
F	Project in computer science I CS-398	IN	Profs divers			2h	2h	Sum Win	During the semester	8

Group II "options"

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit					
Language	Code	Section	Teacher	I	e	p	I	e	p	I	e	p	I	e	p
E	Algebra	MATH-310	MA	Lachowska				2h	1h		Win	Written	3		
F	Artificial intelligence	CS-330	IN	Faltings						2h	2h	Sum	During the semester	4	
E	Computer language processing	CS-320	IN	Kuncak				2h	2h	2h	Win	During the semester	6		
F	Electromagnetics I : Transmission lines and waves	EE-200	EL	Fleury				2h	1h		Win	Written	3		
F	Electromagnetics II : field computation	EE-201	EL	Fleury						2h	1h	Sum	Written	3	
F	Electronics II	EE-203(b)	EL	Zysman				2h	2h		Win	During the semester	4		
F	Electronics III	EE-381	EL	Zysman						2h	1h	Sum	During the semester	3	
F	General chemistry	CH-160(b)	CGC	Terrettaz				2h	1h		Win	Written	3		
E	Internet analytics	COM-308	SC	Grossglauser						2h	1h	2h	Sum	Written	5
E	Introduction to computer graphics	CS-341	IN	Pauly						2h	1h	2h	Sum	Written	6
F	Introduction to life sciences (for IC)	BIO-109	SV	Zufferey						4h	2h	Sum	Written	6	

E	Principles of digital communications									
	COM-302	SC	Telatar			4h 2h		Sum	Written	6
F	Projet de systems-on-chip									
	CS-309	IN	Beuchat				3h	Sum	During the semester	3
F	Quantum computation									
	CS-308	SC	Macris			3h 1h		Sum	Written	4
F	Quantum information processing									
	COM-309	SC	Macris			3h 1h		Win	Written	4
E	Signal processing for communications									
	COM-303	SC	Prandoni			4h 2h		Sum	Written	6
F	Stochastic models in communication									
	COM-300	SC	Thiran			4h 2h		Win	Written	6

Block A

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Language	Code	Section	Teacher	l e p	l e p	l e p	l e p			
E	Functional programming									
	CS-210	IN	Kuncak Odersky	2h 2h				Win	Written	5
E	Parallelism and concurrency									
	CS-206	IN	Kuncak Odersky		1h 1h 2h			Sum	During the semester	4
F	System oriented programming									
	CS-207	IN	Chappelier		1h 2h			Sum	Written	3
F	System programming project									
	CS-212	IN	Bugnion Chappelier		2h			Sum	During the semester	2

Block B

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Language	Code	Section	Teacher	l e p	l e p	l e p	l e p			
E	Computer architecture I									
	CS-208	IN	Stojilovic	2h 2h				Win	Written	4
E	Computer architecture II									
	CS-209	IN	Ienne		2h 2h			Sum	Written	4
E	Computer networks									
	COM-208	SC	Argyrazi	2h 2h				Win	Written	5
E	General physics: electromagnetism									
	PHYS-114	PH	Dil	2h 2h				Win	Written	4

Block C

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Language	Code	Section	Teacher	l e p	l e p	l e p	l e p			
E	Algorithms									
	CS-250	IN	Svensson	4h 2h				Win	Written	6
F	Analysis III									
	MATH-203(c)	MA	Strütt	2h 2h				Win	Written	4
E	Probabilities and statistics									
	MATH-232	MA	Abbé		4h 2h			Sum	Written	6
E	Theory of computation									
	CS-251	IN	Göös		2h 2h			Sum	Written	4

Group "Option courses"

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Language	Code	Section	Teacher	l e p	l e p	l e p	l e p			
F	Analysis IV									
	MATH-207(d)	MA	Strütt		2h 2h			Sum	Written	4
F	Electronics I									
	EE-202(b)	EL	Zysman	2h 1h				Win	During the semester	4
F	Human computer interaction									
	CS-213	IN			2h 2h			Sum	Written	5
E	Introduction to machine learning (BA3)									
	CS-233(a)	IN	Salzmann	2h 2h				Win	Written	4

<i>E</i>	Introduction to machine learning (BA4)								
	CS-233(b)	IN	Fua	2h	2h		Sum	Written	4
<i>E</i>	Numerical methods for visual computing and ML								
	CS-328	IN	Jakob	2h	1h		Win	Written	4
<i>E</i>	Signals and systems (for EL&IC)								
	EE-205	SC	Shkel	2h	2h		Sum	Written	4
<i>E</i>	Technologies of societal self-organization								
	CS-234	IN	Ford	2h	1h 2h		Win	Written	5

Transverse block HSS

Courses			Exam Session	Exam	Credit
<i>Language</i>	<i>Code</i>	<i>Section</i>	<i>Teacher</i>		
<i>F</i>	SHS : Bachelor cycle BA6				2
		SHS			
<i>F</i>	HSS : Bachelor cycle BA5				2
		SHS			
<i>F</i>	HSS : Bachelor cycle BA4				2
		SHS			
<i>F</i>	HSS : Bachelor cycle BA3				2
		SHS			