

Cours	Enseignants	Automne		Printemps		Examen	Crédits	
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<b>Bloc général plan libre</b>								<b>TOTAL 90</b>
<b>Master of Science in Computer Science</b>								<b>TOTAL 90</b>
<b>Teaching Units</b>								<b>TOTAL 60</b>
<b>General</b>								<b>TOTAL</b>
Interdisciplinary Computing	M. Courant	2ph+1ph		2ph+1ph		oral	5	
User Centered Design (University of Fribourg)	D. Lalanne	2ph+1ph		2ph+1ph		écrit	5	
Future User Interfaces (FUJ): multimodal, plastic and natural	D. Lalanne		2ph+1ph		2ph+1ph	écrit	5	
Parallel Architectures	E. Sanchez		2ph+1ph		2ph+1ph	écrit	5	
R&D Workshop	P. KROPF H. MERCIER J. SAVOY		4ph		4ph	controle continu	10	
Seminar Interaction Design	A. Lisowska Masson	2ph		2ph		controle continu	5	
Seminar Serious Game and Gamification for E-Health and E-Learning Applications	O. Abou Khaled E. Mugellini		1pg		1pg	controle continu	5	
<b>Distributed Systems</b>								<b>TOTAL</b>
Mobile Communications	T. Braun		2ph+1ph		2ph+1ph	écrit	5	
Sensor Networks and Internet of Things	T. Braun	2ph+1ph		2ph+1ph		écrit	5	
Distributed Systems	M. PASIN	2ph+2ph		2ph+2ph		écrit	5	
Security	H. SANGLARD	2ph+2ph		2ph+2ph		oral	5	
Concurrency: Foundations and Algorithms	P. FELBER		2ph+2ph		2ph+2ph	écrit	5	
Large-scale Distributed Systems	E. RIVIERE	2ph+2ph		2ph+2ph		écrit	5	
Cloud Computing	E. RIVIERE		2ph+2ph		2ph+2ph	écrit	5	
Advanced Software Engineering (University of Fribourg)	J. Vogel	2ph+1ph		2ph+1ph		oral	5	
Verification of Cyber-physical Systems	U. Ultes-Nitsche	2ph+1ph		2ph+1ph		oral	5	
Web Engineering	O. Abou Khaled P. FELBER E. Mugellini	2ph+1ph		2ph+1ph		oral	5	
Scientific Reading in Computer Networks	T. Braun	1pg		1pg		controle continu	5	
Scientific Writing in Computer Networks	T. Braun	1pg		1pg		controle continu	5	
Seminar Communication and Distributed Systems	T. Braun	2ph		2ph		controle continu	5	
Scientific Reading in Computer Networks	T. Braun		1pg		1pg	controle continu	5	
Scientific Writing in Computer Networks	T. Braun		1pg		1pg	controle continu	5	
Seminar Communication and Distributed Systems	T. Braun		2ph		2ph	controle continu	5	
Seminar Foundations of Dependable Systems I	U. Ultes-Nitsche	1pg		1pg		controle continu	5	
Seminar Pervasive Artificial Intelligence	M. Courant B. Hirsbrunner	1pg		1pg		controle continu	5	
Seminar Foundations of Dependable Systems II	U. Ultes-Nitsche		1pg		1pg	controle continu	5	
Seminar Pervasive Artificial Intelligence	M. Courant		1pg		1pg	controle continu	5	
<b>Advanced Software Engineering</b>								<b>TOTAL</b>
Concurrency: State Models and Design Patterns	O. Nierstrasz	2ph+1ph		2ph+1ph		écrit	5	
Programming Languages	O. Nierstrasz		2ph+1ph		2ph+1ph	écrit	5	
Seminar Software Composition	O. Nierstrasz	2ph		2ph		controle continu	5	
Seminar Software Composition	O. Nierstrasz		2ph		2ph	controle continu	5	
<b>Advanced Information Processing</b>								<b>TOTAL</b>
Rendering Algorithms (University of Bern)	M. Zwicker		2ph+1ph		2ph+1ph	écrit	5	
Computer Vision	P. Favaro	2ph+1ph		2ph+1ph		écrit	5	
3D Geometry Processing	M. Zwicker	2ph+1ph		2ph+1ph		écrit	5	
Machine learning and data mining	J. SAVOY	2ph+2ph		2ph+2ph		écrit	5	
Statistical Learning Methods	J. SAVOY		2ph+2ph		2ph+2ph	écrit	5	
Design and Graphics Programming for Game Development (University of Fribourg)	M. Rigamonti		2ph+1ph		2ph+1ph	oral	5	
Applications of Artificial Intelligence	M. Eichenberger-Liwicki	2ph+1ph		2ph+1ph		oral	5	
Pattern Recognition	A. Fischer		2ph+1ph		2ph+1ph	écrit	5	
Seminar Computer Graphics	M. Zwicker	2ph		2ph		controle continu	5	
Seminar Computer Vision	P. Favaro	2ph		2ph		controle continu	5	
Seminar Computer Graphics	M. Zwicker		2ph		2ph	controle continu	5	
Seminar Natural Language Processing	J. SAVOY	2ph		2ph		controle continu	5	
Seminar Data Visualization	D. Lalanne		1pg		1pg	controle continu	5	
Seminar Pattern Recognition and Machine Learning for Human Activity	O. Abou Khaled E. Mugellini	1pg		1pg		controle continu	5	
Seminar Scientific Communication in Document Image Analysis: Reading, Writing, and Presentation Skills	M. Eichenberger-Liwicki		1pg		1pg	controle continu	5	
Seminar Human Building Interaction	D. Lalanne	1pg		1pg		controle continu	5	
<b>Logic</b>								<b>TOTAL</b>
Proof Theory	G. Jäger	2ph+1ph		2ph+1ph		oral	5	
Modal Logic	T. Studer	2ph+1ph		2ph+1ph		oral	5	
Probabilistic Algorithms (6 ECTS)	I. COTOFREI	4ph		4ph		écrit	5	
Automata on Infinite Structures	U. Ultes-Nitsche		2ph+1ph		2ph+1ph	oral	5	
Seminar Algebra and Logic	G. Jäger G. Metcalfe	2ph		2ph		controle continu	5	
Seminar Logic and Theoretical Computer Science	G. Jäger T. Strahm	2ph		2ph		controle continu	5	
Seminar Logic and Theoretical Computer Science	G. Jäger T. Strahm		2ph		2ph	controle continu	5	
Seminar Logic and Information	G. Jäger G. Metcalfe	1pg		1pg		controle continu	5	

		K. STOFFEL U. Ultes-Nitsche				
<b>Information Systems and Decision Support</b>						<b>TOTAL</b>
E-gouvernement frameworks	A. SANDOZ	2ph+2ph	2ph+2ph	oral		5
Quantitative Models in Revenue Management (University of Fribourg)	T. Hürlimann	2ph+1ph	2ph+1ph	écrit		5
Transportation Logistics: Quantitative Models and Methods	T. Hürlimann	2ph+1ph	2ph+1ph	oral		5
Best Practice in Mathematical Modelling	T. Hürlimann	2ph+1ph	2ph+1ph	oral		5
Combinatorial Optimization, Graphs and Applications	B. Ries	2ph+1ph	2ph+1ph	écrit		5
Seminar Data Science	M. Khayati	1pg	1pg	controle continu		5
<b>Rattrapage</b>						<b>TOTAL 30</b>
Structure de données et algorithmique	A. SANDOZ	2ph+2ph		controle continu		6
Systèmes répartis	M. PASIN	2ph+2ph		écrit		6
Algèbre linéaire	A. VALETTE	4ph+3ph+1j		écrit		9
Mathématiques discrètes et applications	H. MERCIER	2ph+2ph		écrit		6
Informatique générale : programmation I	P. FELBER	2ph+2ph		controle continu		6
Informatique générale : programmation II	P. FELBER	2ph+2ph		controle continu		6
Intelligence artificielle	J. SAVOY	2ph+2ph		écrit		6
Operating Systems	E. RIVIERE	2ph+2ph		écrit		6
Langages et compilation	P. FELBER	2ph+2ph		oral		6