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**A single year**

**List of Phd courses**

**Life Sciences Department**

SDOC0041-1	<i>Elements of molecular neurobiology</i> - Lucien BETTENDORFF		15	-	-	<b>3</b>
SDOC0043-1	<i>Mass culture of algae: theory and application</i> - Fabrice FRANCK		15	15	-	<b>3</b>
SDOC0045-1	<i>Oxydative and anti-oxydant phenomena</i> - Jacques PIETTE		6	-	-	<b>3</b>
SDOC0046-1	<i>Genetic physiology of flowering</i> - Claire PÉRILLEUX		15	-	-	<b>3</b>
SDOC0004-1	<i>Production of recombinant proteins in eukaryotic systems</i> - Colette DUEZ		15	-	-	<b>3</b>
SDOC0048-1	<i>Protein purification</i> - Moreno GALLEN, Bernard JORIS, André MATAGNE		15	-	-	<b>3</b>
SDOC0049-1	<i>Cellular responses to DNA damage</i> - Yvette HABRAKEN	Q2	15	-	-	<b>3</b>
SDOC0050-1	<i>Biochemical toxicology</i> - Marianne FILLET		30	-	-	<b>3</b>
SDOC0033-1	<i>Biophysics and bioenergetics</i> - Pierre CARDOL		15	-	-	<b>3</b>
SDOC0058-1	<i>Secondary metabolites in plants</i> - Jacques DOMMES		15	-	-	<b>3</b>

**Chemistry Department**

SDOC0010-1	<i>Heterocyclic chemistry</i> - André LUXEN		10	-	-	<b>3</b>
SDOC0012-1	<i>Recent development in mass spectrometry</i> - Edwin DE PAUW	TA	15	-	-	<b>3</b>
SDOC0013-1	<i>Chemical reaction dynamics : theoretical approaches</i> - Michèle DESOUTER, Françoise REMACLE		10	-	-	<b>3</b>
SDOC0014-1	<i>Dynamics of chemical reactions : experimental and theoretical approaches</i> - Michèle DESOUTER, Bernard LEYH, Françoise REMACLE	TA	20	-	-	<b>3</b>
SDOC0002-1	<i>Information Literacy</i>					<b>3</b>
	- <i>Module 1 - Research and evaluation of information</i> - Caroline COLLETTE		3	5	-	
	- <i>Module 2 - Information management</i> - Caroline COLLETTE		3	4	-	
	- <i>Module 3 - Presentation of results</i> - Caroline COLLETTE		2	3	-	
SDOC0003-1	<i>Technological management and intellectual property</i> - Nicole ANTHEUNIS - [10h Mon. WS]	Q2	15	-	[+]	<b>3</b>
SDOC0016-1	<i>Molecular manipulation</i> - AnneSophie DUWEZ		10	-	-	<b>3</b>
SDOC0017-1	<i>Electronic and optical properties of nano quantum dot networks</i> - Françoise REMACLE		5	-	-	<b>3</b>
SDOC0018-1	<i>Rheology of complex liquids</i> - Guy BROZE		7	-	-	<b>3</b>
SDOC0019-1	<i>Mass spectrometry</i> - Edwin DE PAUW	TA	10	-	-	<b>3</b>
SDOC0057-1	<i>In depth scientific issues</i> - COLLÉGIALITÉ		15	-	-	<b>3</b>

**Geography Department**

SDOC0021-1	<i>Seminar : rural areas and landscape</i> - Serge SCHMITZ - [16h AUTR]		-	-	[+]	<b>3</b>
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**Geology Department**

SDOC0052-1	<i>Carbonated environments of petrology and basin analysis</i> - Frédéric BOULVAIN - [16h FW]	Q2	5	5	[+]	<b>3</b>
SDOC0053-1	<i>Quaternary sedimentary archives and paleoenvironmental reconstructions</i> - Nathalie FAGEL		10	10	-	<b>3</b>
SDOC0054-1	<i>Rock analysis using spectrometry and X-ray fluorescence</i> - Jacqueline VANDER AUWERA		5	15	-	<b>3</b>
SDOC0055-1	<i>Influence of geological risks on the environment</i> - HansBalder HAVENITH		10	5	-	<b>3</b>
SDOC0056-1	<i>Precambrian paleobiogeology</i> - Emmanuelle JAVAUX		10	10	-	<b>3</b>

**Maths Department**

SDOC0029-1	<i>Probability and basic statistics</i> - Pierre MATHONET	Q1	20	-	-	<b>3</b>
SDOC0030-1	<i>Multivariate statistics</i> - Gentiane HAESBROECK		20	-	-	<b>3</b>
SDOC0031-1	<i>Linear models</i> - Yvik SWAN	Q2	20	-	-	<b>3</b>
SDOC0032-1	<i>Analysis of time series</i> - Samuel NICOLAY		20	-	-	<b>3</b>

**Department of Astrophysics, Geography and Oceanography**

SDOC0001-1	<i>Communicating Science</i> - Yaël NAZÉ	Q2	10	10	-	<b>3</b>
SDOC0007-1	<i>Advanced quantum theory (english language)</i> - JeanRené CUDELL, Cédric LORCE		10	20	-	<b>3</b>
SDOC0008-1	<i>Advanced quantum field theory (english language)</i> - JeanRené CUDELL, Cédric LORCE		10	20	-	<b>3</b>

**Department of Physics**

SDOC0059-1	<i>Mesosopic physics, introduction</i> - Cyril PETITJEAN	Q1	15	-	-	<b>3</b>
SDOC0060-1	<i>Spintronics and mesoscopic superconductivity</i> - Cyril PETITJEAN	Q2	15	-	-	<b>3</b>