

Schedule Master Computer Science and Science Communication and Society/Education, 1st year, Fall 2021

Wk	Date	Mo				Tue				Wed				Thu				Fri					Date	
No	Mo	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	5	Fri	
36	06 Sep			CMB/ UC	IML	ADM	CMS	DPS	VGR	TM	EA	AML	Mc /CXN	FST /wUC	HPC /BSC	SDPM /ITDM /BSC	QA/ BSC		SNA/ SSS	IDL/ MMS	pIDL	Tut	10 Sep	
37	13 Sep		QA/ DRL <sup>2</sup>	CMB/ UC	IML	ADM/ wCMS /pVGR	wEA /CMS	DPS	VGR	TM	EA	AML/ Crea	wAML	FST /wUC	HPC	SDPM /ITDM	QA	wSNA	SNA/ SSS	IDL/ MMS	pIDL		17 Sep	
38	20 Sep		QA/ DRL <sup>2</sup>	CMB/ UC	IML	ADM/ wCMS /pVGR	wEA /CMS	DPS	AIDM /VGR	TM	EA	AML/ Crea	Mc /CXN	FST /wUC	HPC	SDPM /ITDM	QA	wSNA	SNA/ SSS	IDL/ MMS	pIDL	Tut	24 Sep	
39	27 Sep	wIML	QA/ DRL <sup>2</sup>	CMB/ UC	IML	ADM/ wCMS /pVGR	wEA /CMS	DPS/ pAIDM	AIDM /VGR	TM	EA	AML/ Crea	CXN	FST/ wUC/ pCXN	HPC /BSC	SDPM /ITDM /BSC	QA/ BSC	wSNA	SNA/ SSS	IDL/ MMS	pIDL		01 Oct	
40	04 Okt	Relief of Leiden				ADM/ wCMS /pVGR	wEA /CMS	DPS/ pAIDM	AIDM /VGR	TM	EA	AML/ Crea	Mc /CXN/ wAML	FST /wUC	HPC /BSC	SDPM /ITDM /BSC	QA/ BSC	wSNA	SNA/ SSS	IDL/ MMS	pIDL	Tu/ pMMS	08 Oct	
41	11 Oct		QA/ DRL <sup>2</sup>	CMB/ UC	IML	ADM/ wCMS /pVGR	wEA /CMS	DPS/ pAIDM	AIDM /VGR	TM	EA	AML/ Crea	CXN	FST /wUC	HPC	SDPM /ITDM	QA	wSNA	SNA/ SSS	IDL/ MMS	pIDL		15 Oct	
42	18 Oct	wIML	QA/ DRL <sup>2</sup>	CMB/ UC	IML	ADM/ wCMS /pVGR	wEA /CMS	DPS/ pAIDM	AIDM /VGR	TM	EA	AML/ Crea	Mc /CXN	FST/ wUC/ pCXN	HPC	SDPM /ITDM	QA	wSNA	SNA/ SSS	IDL/ MMS	pIDL	Tut	22 Oct	
43	25 Oct		QA/ DRL <sup>2</sup>	CMB/ UC	IML	ADM/ wCMS /pVGR	wEA /CMS	DPS/ pAIDM	AIDM /VGR		EA	AML/ Crea	CXN/ wAML	FST /wUC	HPC	SDPM /ITDM	QA	wSNA	SNA/ SSS	IDL/ MMS	pIDL	pMMS	29 Oct	
44	01 Nov	wIML	QA/ DRL <sup>2</sup>	CMB/ UC	IML	ADM/ wCMS /pVGR	wEA /CMS	DPS/ pAIDM	AIDM /VGR	TM	EA	AML/ Crea	Mc /CXN	FST /wUC	HPC	SDPM /ITDM	QA	wSNA	SNA/ SSS	IDL/ MMS	pIDL	Tut	05 Nov	
45	08 Nov		QA/ DRL <sup>2</sup>	CMB/ UC	IML	ADM/ wCMS /pVGR	wEA /CMS	DPS/ pAIDM	AIDM /VGR	TM	EA	AML/ Crea	CXN	FST/ wUC/ pCXN	HPC /BSC	SDPM /ITDM /BSC	QA/ BSC	wSNA	SNA/ SSS	IDL/ MMS	pIDL		12 Nov	
46	15 Nov		QA/ DRL <sup>2</sup>	CMB/ UC	IML	ADM/ wCMS /pVGR	wEA /CMS	DPS/ pAIDM	AIDM /VGR	TM	EA	AML/ Crea	Mc	FST /wUC	HPC	SDPM /ITDM	QA	wSNA /wAML	SNA/ SSS	IDL/ MMS	pIDL	Tu/ pMMS	19 Nov	
47	22 Nov	wIML	QA/ DRL <sup>2</sup>	CMB/ UC	IML	ADM/ wCMS /pVGR	wEA /CMS	DPS/ pAIDM	AIDM	TM	EA	AML/ Crea	CXN	FST /wUC	HPC	SDPM /ITDM	QA	wSNA	SNA/ SSS	IDL/ MMS	pIDL		26 Nov	
48	29 Nov		QA/ DRL <sup>2</sup>	CMB/ UC	IML	ADM/ wCMS /pVGR	CMS	DPS/ pAIDM	AIDM	TM	EA	AML	Mc /CXN	FST/ wUC/ pCXN	HPC /BSC	SDPM /ITDM /BSC	QA/ BSC	wSNA	SNA/ SSS	IDL/ MMS	pIDL	Tut	03 Dec	
49	06 Dec	UCpres	QA/ DRL <sup>2</sup>	CMB/ UC	IML	ADM		DPS/ pAIDM	AIDM	TM		UCpres	UCpres/CXN		E SDPM	ITDM	QA	wSNA	SNA/ SSS				10 Dec	
50	13 Dec		QA/ DRL <sup>2</sup>	UCpres			E CMS	pAIDM	AIDM			E HPC	CXN		FST Hackathon			E CMB					17 Dec	
51	20 Dec		E EA				E IML					E AIDM											24 Dec	
52	27 Dec	Christmas Holidays				Christmas Holidays				Christmas Holidays				Christmas Holidays				Christmas Holidays					31 Dec	
1	03 Jan								E CXN														07 Jan	
2	10 Jan								E IDL														14 Jan	
3	17 Jan											R SDPM											21 Jan	
4	24 Jan						R CMS		R CXN														28 Jan	
5	31 Jan								R IML				R AIDM											04 Feb

Block	1		2		Break	3		4		5	
	09:15-11:00		11:15-13:00			14:15-16:00		16:15-18:00		18:15-20:00	
Hrs	09:15-10:00	10:15-11:00	11:15-12:00	12:15-13:00	13:15-14:00	14:15-15:00	15:15-16:00	16:15-17:00	17:15-18:00	18:15-19:00	19:15-20:00
	1	2	3	4	5	6	7	8	9	10	11

Abbr.	Catalogue no.	Course title
Tut	4349MENTOW	Tutoring & mentoring
ADM	4343ADMDX	Advanced Data Management for Data Analysis
AIDM/pAIDM	4343ADVDM	Advances in Data Mining/practicum Advances in Data Mining
AML/wAML	4343AUTMX	Automated Machine Learning/workgroup Automated Machine Learning
BSC	4343BSCS3	Better Science for Computer Scientists
CXN/pCXN	4609COMNW	Complex Networks/practicum Complex Networks
Crea	4383COMCR	Computational Creativity (MediaTech course)
CMS/wCMS	4343CMS6X	Computational Models and Semantics/workgroup Computational Models and Semantics
CMB	4343COMOB	Computational Molecular Biology
DPS	4343DISDP	Distributed Data Processing Systems
EA/wEA	4343EVAL6	Evolutionary Algorithms/workgroup Evolutionary Algorithms
FST	4343FSWT6	Foundations of Software Testing
HPC	4343HPC16	High Performance Computing I
ITDM	4343ITDM6	Information Theoretic Data Mining
IDL/pIDL	4343INTDL	Introduction to Deep Learning/practicum Introduction to Deep Learning
IML/wIML	4343INTML	Introduction to Machine Learning/workgroup Introduction to Machine Learning
Mc	4343MACLAH	Master Class (participation mandatory)
MMS	4343MMSY6	Multimedia Systems (including practical sessions)
QA/IA	4343QUALG	Quantum Algorithms/tutorial Quantum Algorithms
DRL <sup>2</sup>	4343SADRL	Seminar Advanced Deep Reinforcement Learning (for 2nd year students only)
SNA/wSNA	4343SNACS	Social Network Analysis for CS/workgroup Social Network Analysis for CS
SDPM	4353SWDPM	Software Development & Product Management (ICTIB&PS course)
SSS	4343SYSSS	System & Software Security
TM	4343XTMN	Text Mining
UC/wUC/UCpres	4343URBC6	Urban Computing/workgroup Urban Computing/presentations Urban Computing
VGR/pVGR	4383VGFR6	Video Games for Research/practicum (MediaTech course)

Lecturer
Alexandra Blank a.o
prof. dr. S. Manegold
dr. W. Kowalczyk
dr. J.N. van Rijn
prof.dr. H.H. Hoos
dr. M. Emmerich, dr. D. Garlaschelli, dr. L. Avena
dr. R. Saunders
dr. H. Basold
dr. A.P. Goutiaev; dr. K.J. Wolstencroft
dr. A. Uta
prof. dr. T.H.W. Bäck; dr. H. Wang
prof. dr. M.M. Bonsangue; prof.dr. F.S. de Boer
prof.dr. H.A.G. Wijnshoff
dr. M. van Leeuwen
dr. W. Kowalczyk; A. Bernatavicius MSc
dr. A. Kononova; D.L. Vermetten MSc
prof. dr. T.H.W. Bäck; dr. B. van Stein
dr. M.S. Lew; dr. E.M. Bakker
dr. V. Dunjko
prof. dr. A. Plaata
dr. F.W. Takes
drs. Paul van Leeuwen
Olga Gadyatskaya
dr. S. Verberne
dr. M. Baratchi
M. Gomez MSc & dr. M. Preuss

Summary:
<span style="background-color: #f0f0f0; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Mandatory/Core Component Course
<span style="background-color: #e0e0e0; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Recommended course
<span style="background-color: #d0d0d0; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Elective

\* Exams and Retakes: 10:15-13:45h or 14:15-17:45h. Exams and Retakes at USC: 09:00-12:30h or 13:00-16:30h (see class locations)

Schedule Master Computer Science and Science Communication and Society/Education, 1st year, Fall 2021

		Specialisations									
		Advanced Computing and Systems	Artificial Intelligence	Data Science	Foundations of Computing	Bioinformatics	Science Communication & Society	Education			
Catalog no.	Course title								Level	EC	Sem
4343ADMDX	Advanced Data Management for Data Analysis								500	6	1
4433ADSTC	Advanced Statistical Computing (2nd year)								500	3	1
4343ADVDM	Advances in Data Mining								500	6	1
4343AUTMX	Automated Machine Learning								500	6	1
4343BSCS3	Better Science for Computer Scientists								500	3	1
4609COMNW	Complex Networks (BM)								400	6	1
4383COMCR	Computational Creativity								500	6	1
4343CMS6X	Computational Models and Semantics								500	6	1
4343COMOB	Computational Molecular Biology								500	6	1
4343DASPR	Data Science in Practice								500	6	1
4343DISDP	Distributed Data Processing Systems								500	6	1
4343EVAL6	Evolutionary Algorithms								500	6	1
4343FSWT6	Foundations of Software Testing								500	6	1
4433HDDAN	High-dimensional Data Analysis								500	6	1
4343HPC16	High Performance Computing I								500	6	1
4343ITDM6	Information Theoretic Data Mining								500	6	1
4343INTDL	Introduction to Deep Learning								500	6	1
4343INTML	Introduction to Machine Learning								500	6	1
4433LAGLM	Linear & Generalized Linear Models and Linear Algebra								400	9	1
4343MMSY6	Multimedia Systems								500	6	1
4373MUB16	Multiscale Mathematical Biology (BM)								400	6	1
4343QUALG	Quantum Algorithms								500	6	1
4343SADRL	Seminar Advanced Deep Reinforcement Learning								500	6	1
4343SNACS	Social Network Analysis for Computer Scientists								500	6	1
4353SWDPM	Software development and Product Management								500	6	1
4433STAGE	Statistical genetics								500	6	1
4433STLT6	Statistical Learning (2nd year)								500	6	1
4343SYSSS	System and Software Security								500	6	1
4343TXTMN	Text Mining								500	6	1
4343URBC6	Urban Computing								500	6	1
4383VGF6	Video Games for Research								500	6	1
Catalog no.	Course title								Level	EC	Sem
4343ADL6X	Advances in Deep Learning								500	6	2
4343APQAL	Applied Quantum Algorithms								500	6	2
4343AUDIO	Audio Processing and Indexing								500	6	2
4343BIOMD	Bio-modeling								500	6	2
4343CLCMP	Cloud Computing								500	6	2
4343CPML6	Competitive Programming								500	6	2
4343CIMTO	Computational Imaging and Tomography								500	6	2
4343CRYPE	Cryptographic Engineering								500	6	2
4343EMBSS	Embedded Systems and Software								500	6	2
4343HPC2X	High Performance Computing II								500	6	2
4343MMAV6	Image Analysis with Applications in Microscopy								500	6	2
4343INFRE	Information Retrieval								500	6	2
4373MABIM	Metabolic Network Analysis (BM)								400	6	2
4343MGAIX	Modern Game AI Algorithms								500	6	2
4343MOADA	Multicriteria Optimization and Decision Analysis								500	6	2
4343MMIRL	Multimedia Information Retrieval								500	6	2
4433MAMDA	Multivariate and multidimensional data analysis								500	6	2
4343PSYPR	Psychology of Programming								500	6	2
4343QUCO3	Quantum Computing								500	3	2
4343REINL	Reinforcement Learning								500	6	2
4343ROBO6	Robotics								500	6	2
4343SCOMA	Seminar Combinatorial Algorithms								500	6	2
4343SWVER	Software Verification								500	6	2
343SPDSC	Sports Data Science								500	6	2
4343IRPRJ	Introductory Research Project (Bioinformatics)								500	12-18	1&2
4343MACLAH	Master Class & Master's Thesis Research Project	42	42	42	42	42	30	30	600	30-42	1&2
n/a	Science Communication and Society programme (2nd year)							40-60	n/a	40-60	1&2
n/a	Education component (2nd year)							60	n/a	60	1&2

Legenda			
Mandatory	Recommended	Elective	Not applicable