

Schedule Master Data Science: Computer Science, 1st and 2nd 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	In ^{CS1}		CMB/UC	IML	ADM	CMS	DPS	VGR	TM	EA	AML	Mc ² /CXN	FST/wUC	HPC/BSC	SDPM/ITDM/BSC	QA/DIP/BSC	CHS	SNA/SSS	IDL/MMS	pIDL	Tut	10 Sep
37	13 Sep		QA/DRL ²	CMB/UC	IML	ADM/wCMS/pVGR	wEA/CMS	DPS	VGR	TM	EA	AML/Crea	wAML	FST/wUC	HPC	SDPM/ITDM	QA/DIP	wSNA	SNA/SSS	IDL/MMS	pIDL		17 Sep
38	20 Sep		QA/DRL ²	CMB/UC	IML	ADM/wCMS/pVGR	wEA/CMS	DPS	AIDM/VGR	TM	EA	AML/Crea	Mc ² /CXN	FST/wUC	HPC/wCCC	SDPM/ITDM	QA/DIP	wSNA	SNA/SSS	IDL/MMS	pIDL	Tut	24 Sep
39	27 Sep	wIML	QA/DRL ²	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/DIP/BSC	wSNA	SNA/SSS	IDL/MMS	pIDL		01 Oct
40	04 Oct	Relief of Leiden				ADM/wCMS/pVGR	wEA/CMS	DPS/pAIDM	AIDM/VGR	TM	EA	AML/Crea	Mc ² /CXN/wAML	FST/wUC	HPC/BSC	SDPM/ITDM/BSC	QA/DIP/BSC	wSNA	SNA/SSS	IDL/MMS	pIDL	Tut/pMMS	08 Oct
41	11 Oct		QA/DRL ²	CMB/UC	IML	ADM/wCMS/pVGR	wEA/CMS	DPS/pAIDM	AIDM/VGR	TM	EA	AML/Crea	CXN	FST/wUC	HPC	SDPM/ITDM	QA/DIP	wSNA	SNA/SSS	IDL/MMS	pIDL		15 Oct
42	18 Oct	wIML	QA/DRL ²	CMB/UC	IML	ADM/wCMS/pVGR	wEA/CMS	DPS/pAIDM	AIDM/VGR	TM	EA	AML/Crea	Mc ² /CXN	FST/wUC/pCXN	HPC	SDPM/ITDM	QA/DIP	wSNA	SNA/SSS	IDL/MMS	pIDL	Tut	22 Oct
43	25 Oct		QA/DRL ²	CMB/UC	IML	ADM/wCMS/pVGR	wEA/CMS	DPS/pAIDM	AIDM/VGR		EA	AML/Crea	CXN/wAML	FST/wUC	HPC	SDPM/ITDM	QA/DIP	wSNA	SNA/SSS	IDL/MMS	pIDL	pMMS	29 Oct
44	01 Nov	wIML	QA/DRL ²	CMB/UC	IML	ADM/wCMS/pVGR	wEA/CMS	DPS/pAIDM	AIDM/VGR	TM	EA	AML/Crea	Mc ² /CXN	FST/wUC	HPC	SDPM/ITDM	QA/DIP	wSNA	SNA/SSS	IDL/MMS	pIDL	Tut	05 Nov
45	08 Nov		QA/DRL ²	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/DIP/BSC	wSNA	SNA/SSS	IDL/MMS	pIDL		12 Nov
46	15 Nov		QA/DRL ²	CMB/UC	IML	ADM/wCMS/pVGR	wEA/CMS	DPS/pAIDM	AIDM/VGR	TM	EA	AML/Crea	Mc ² /CXN	FST/wUC	HPC	SDPM/ITDM	QA/DIP	wSNA	SNA/SSS	IDL/MMS	pIDL	Tut/pMMS	19 Nov
47	22 Nov	wIML	QA/DRL ²	CMB/UC	IML	ADM/wCMS/pVGR	wEA/CMS	DPS/pAIDM	AIDM	TM	EA	AML/Crea	CXN	FST/wUC	HPC	SDPM/ITDM	QA/DIP	wSNA	SNA/SSS	IDL/MMS	pIDL		26 Nov
48	29 Nov		QA/DRL ²	CMB/UC	IML	ADM/wCMS/pVGR	CMS	DPS/pAIDM	AIDM	TM	EA	AML	Mc ² /CXN	FST/wUC	HPC/BSC	ITDM/BSC	QA/BSC	wSNA	SNA/SSS	IDL/MMS	pIDL	Tut	03 Dec
49	06 Dec	UCpres	QA/DRL ²	CMB/UC	IML	ADM		DPS/pAIDM	AIDM	TM	UCpres		/CXN		E SDPM	ITDM	QA/DIP	wSNA	SNA/SSS				10 Dec
50	13 Dec		QA/DRL ²	UCpres			E CMS	pAIDM	AIDM		E HPC		CXN		FST Hackathon/ DIP presentations				E CMB				17 Dec
51	20 Dec		EEA				E IML				E AIDM												24 Dec
52	27 Dec	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															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

In ^{CS1}	4343OGACTH	Introduction Master Computer Science (mandatory for Sept-21 starters only) - group 1
wCCC ¹	4343OGACTH	Workshop Cross-Cultural Communication (mandatory for Sept-21 starters only) - group 1
CHS	4343CHSIT	Computing Health and Safety Instruction online self-study (mandatory for Sept-21 starters)
Tut	4349MENTOW	Tutoring & mentoring
ADM	4343ADMDX	Advanced Data Management for Data Analysis
AIDM/pAIDM	4343ADVDM	Advances in Data Mining/practicum Advances in Data Mining
AMLwAML	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
DIP	4343DASPR	Data Science in Practice
DPS	4343DISDP	Distributed Data Processing Systems
EA/wEA	4343EVAL6	Evolutionary Algorithms/workgroup Evolutionary Algorithms
FST	4343FSWT6	Foundations of Software Testing
HPC	4343HPCI6	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 ²	4343MACLAH	Master Class (mandatory for 2nd year)
MMS	4343MMSY6	Multimedia Systems (including practical sessions)
QA/IA	4343QUALG	Quantum Algorithms/tutorial Quantum Algorithms
DRL ²	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	4343TXTMN	Text Mining
UC/wUC/UCpres	4343URBC6	Urban Computing/workgroup Urban Computing/presentations Urban Computing
VGR/pVGR	4383VGR6	Video Games for Research/practicum (MediaTech course)

* 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)

Summary	
	Mandatory/Core Component Course
	Recommended course
	Elective




dr. M. van Leeuwen; mw J. Visser
drs. A.C. Berendse
Science Safety Department (AMD)
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. Gouliava; dr. K.J. Wolstencroft
prof.dr. M.E.H. van Reisen
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. Wijshoff
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. Plaat
dr. F.W. Takes
drs. Paul van Leeuwen
Olga Gadyatskaya
dr. S. Verberne
dr. M. Baratchi
M. Gomez MSc & dr. M. Preuss

Schedule Master Data Science: Computer Science, Statistical Science courses, 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	Fri
36	06 Sep	ASC ²	ASC ²															SL ²	SL ²			10 Sep
37	13 Sep	ASC ²	ASC ²															SL ²	SL ²			17 Sep
38	20 Sep	ASC ²	ASC ²															SL ²	SL ²			24 Sep
39	27 Sep	ASC ²	ASC ²															SL ²	SL ²			01 Oct
40	04 Okt	Relief of Leiden																SL ²	SL ²			08 Oct
41	11 Oct	ASC ²	ASC ²															SL ²	SL ²			15 Oct
42	18 Oct	ASC ²	ASC ²															SL ²	SL ²			22 Oct
43	25 Oct	ASC ³	ASC ³															SL ²	SL ²			29 Oct
44	01 Nov			E ASC ²														SL ²	SL ²			05 Nov
45	08 Nov	LM	LM			LM	LM			LM	LM							SL ²	SL ²			12 Nov
46	15 Nov	LM	LM			LM	LM			LM	LM							SL ²	SL ²			19 Nov
47	22 Nov	LM	LM			LM	LM			LM	LM							SL ²	SL ²			26 Nov
48	29 Nov	LM	LM			LM	LM			LM	LM							SL ²	SL ²			03 Dec
49	06 Dec	LM	LM			LM	LM			LM	LM							SL ²	SL ²			10 Dec
50	13 Dec	LM	LM			LM	LM			LM	LM							SL ²	SL ²			17 Dec
51	20 Dec	LM	LM			LM	LM			LM	LM							SL ²	SL ²			24 Dec
52	27 Dec	Christmas Holidays				Christmas Holidays				Christmas Holidays				Christmas Holidays								31 Dec
1	03 Jan																					07 Jan
2	10 Jan	E LM																				14 Jan
3	17 Jan													R ASC ²								21 Jan
4	24 Jan																	R LM				28 Jan
5	31 Jan			R SL ²																		04 Feb

Block	1		2		Break	3		4	
	09:15-11:00		11:15-13:00			14:15-16:00		16:15-18:00	
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
	1	2	3	4	5	6	7	8	9

Abbr.	Catalogue no.	Course title	Lecturer
ASC ²	4433ADSTC	Advanced Statistical Computing (suggested for 2nd year)	dr. T.W. Nagler
LM	4433LAGLM	Linear & Generalized linear models and linear algebra	dr. E.J. Bakker
SL ²	4433STLT6	Statistical Learning (suggested for 2nd year)	dr. J.D. Karch a.o.

Summary:
 Mandatory/Core Component Course
 Recommended course
 Elective

* Exams and Retakes: 10:15-13:45h or 14:15-17:45h. Exams and Retakes at USC: 10:00-12:30h or 13:00-16:30h (see class locations)
 ** For Statistical Science courses, please check statscience.nl and Brightspace for the most recent timetable and 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