



Universiteit Leiden

Master Schedule - Astronomy & Physics

Semester 1
FALL 2017

5-10-2017

Abbreviation	Course name click for course description	Lecturer(s)	Level	EC	Location	Usis Catalog Nbr	Usis Class Nbr Exam
AOT	Astronomical Observing Techniques (Obligatory for International A&I students)	Keller	500	-	HL414	4072ASOTS	6409
ATI	Astronomical Telescopes and Instruments (+ AOT for Int.students)	Keller/Kenworthy	500	6	HL414; ps HL 411, Exam HL414	4303AAT6	14714
CAP	Computational Astrophysics	Portegies Zwart	400	6	HL411 (29-9, 3-11, 1-12:HL PCLab 3rd floor);	4303COAS6	14715
DBDM	Data Bases and Data Mining in Astronomy	Brinchmann	500	3	HL411	4303DBDMA	13731
OEU	Origin and Evolution of the Universe	Bouwens	500	6	HL414, Exam HL414	4303OEUNI	14716
AFS	Astronomy from Space	Fridlund	400	3	HL414, Exam HL414	4303ASFS3	14717
PFS	Project management For Scientists	Keller	400	3	HL414	4303PRMS3	13732
HCI	High Contrast Imaging	Kenworthy	400	3	HL414 and HL411; Exam HL414 and HL411	4303HCI03	14718
evA	Evaluation of the Astronomy courses	Linnartz	-	-	HL414	n.a.	
Intro Ast	Introduction Master Astronomy (obligatory)	van der Werf	-	-	HL414	n.a.	
CIMAS	Career Information Meeting Astronomy	Various	-	-	HL414	n.a.	
Safety Instr.	Safety Instructions (obligatory)	Various	-	-	tbd	n.a.	
Strw. Sc. Day	Sterrewacht Science Day (obligatory)	Various	-	-	DeSitterzaal	n.a.	
ABP	Advanced Biophysics	Schmidt/vNoort/Heinrich/Semrau	500	6	HL207; (5-10, 2-11: HL226), (9-11, 16-11: SN	4403ADBPL	13733
ADO	Advanced Optics	vExter/Orrit/Beijersbergen	500	6	HL207; (29-9:HL226, 24-11:HL204); Exam HL	4403ADVOF	13815
ATP1	Advanced Topics in Theoretical Physics 1	Schalm	600	6	Module1 Utrecht/Module2 Leiden HL226, Exam S	4403AT117	13070
CMP	Condensed Matter Physics	Vd Molen/Oosterkamp	500	6	HL207; ps HL226 (9-11:SN312); Exam HL21	4403COPH6	13816
CXN	Complex Networks	Garlaschelli/DenHollander/Emmerich	400	6	HL214 (15-11, 22-11:SNB02); Exam and Ret	4609COMNW	14285
EFT	Effective Field Theory	Achúcarro	500	3	HL226; ps HL226 (9-11:SN312); Exam HL20	4403EFTH3	13810
EBP	Experimental Biophysics (optional, as part of ABP)	Schmidt/vNoort/Heinrich/Semrau	500	6	HL207; (5-10, 2-11: HL226), (9-11, 16-11: SN	4403ADBPL	13733
FMT	Frontiers of Measurement Techniques	Oosterkamp	400	3	HL226 (9-11:SN312; 23-11:HL204); Exam HL	4403FRMT3	13817
MRP	Magnetic Resonance Physics	Huber	500	3	HL226 (29-11: HL106, 13-12: HL207)	4403MRPH3	13734
OSM	Origin and Structure of the Standard Model	Bojarsky	400	3	HL226 (28-11: HL106); ps HL211	4403OSSM3	13735
QIF	Quantum Information	Beenakker	400	3	HL204; ps HL204, Exam HL 214	4403QINF3	14338
QTH	Quantum Theory	Beenakker	400	6	HL204; ps HL204; Exam HL214	4403QUTH6	12086
SBT	Soft & Biomatter Theory	Van Saarloos	500	6	HL207 (29-9:HL226; 24-11:HL414) ps: HL22	4403SBMT6	13818
StPa	Statistical Physics a	Gioni	400	6	HL207; ps HL226; Exam HL207	4403STPHA	13812
StPb	Statistical Physics b: Statistical Field Theory	Gioni	400	3	HL207; ps HL226	4403STPHB	13736
TGR	Theory of General Relativity	Zaanen	400	6	HL226 (19-12:HL207), Q: HL207; Exam HL1	4403TGR64	13811
IntP	Introduction Master Physics (Obligatory)	Papathanassiou	-	-	HL207	n.a.	
evP	Evaluation of the Physics courses	Schiessel	-	-	HL204	n.a.	
Phys. Sc. Day	Physics Science Day	Various	-	-	DeSitterzaal	n.a.	
Safety Instr.	Safety Instructions (obligatory)	Various	-	-	tbd	n.a.	
MP	Mesoscopic Physics (AP3261 D)	Vandersypen	-	6	Delft	460313261	14719
IMS	Imaging Systems (AP3121 D)	Kalkman	-	6	Delft, preliminary schedule	4603A3221	14720
DDCS	Databases and Data mining (Computer Science)	Bakker	500	6	SNB02 (7-11&5-12: SNB03)	4343DTBDMT	12967
AIDM	Advances in Data Mining	Kowalczyk	500	6	SNB03	4343ADVDM	14721
cAst	Colloquium Astronomy	Various			see webpage		
cEh	Colloquium Ehrenfestii	Various			see webpage		
cJww	Colloquium Joan van der Waals	Various			see webpage		

Master Schedule - Astronomy & Physics

Semester 2
SPRING 2018

Abbreviation	Course name click for course description	Lecturer(s)	Level	EC	Location	Usis Catalog Nbr	Usis Class Nbr Exam
ASC	Astrochemistry	Van Dishoeck	500	3	HL414	4303ASCHE	13737
COA	Compact Objects and Accretion	Rossi	400	3	HL414; Exam HL414	4303COACC	17128
DTLa	Detection of Light a	Brandl	500	3	HL414; Exam HL414	4303DETLA	17129
DTLa+b	Detection of Light a + b (extra)	Brandl	500	3 + 3	HL414	4303DETLB	17130
GSD	Galaxies: structures, dynamics and evolution	Franx	500	6	HL414; Exam HL414	4303GSDES	17131
ISM	Interstellar Medium	Tielens	500	6	HL414; Exam HL414	4303INTST	17132
LSSGF	Large Scale Structure and Galaxy Formation	Schaye	500	6	HL414; Exam HL414	4303LSSG6	15602
SPF	Star and Planet Formation	Van Dishoeck	500	6	HL414	4303STPLF	13738
CIMAS	Career Information Meeting Astronomy	Various	-	-	HL414	n.a.	
evA	Evaluation of the Astronomy courses	Linnartz	-	-	HL414	n.a.	
APS	Academic and Professional Skills	Oosterkamp	400	3	HL204 (15-2,22-2,12-4,26-4: HL207)	4403ACPRS	13739
ATP2	Advanced Topics in Theoretical Physics 2	Schalm	600	6	Module1 A'dam/Module2 Leiden HL226 (12-3	4403AT217	13073
BHGW	Black Holes and Gravitational Waves	Van Holten	500	3	HL207; Exam HL106	4403BHGW3	12837
COP	Computational Physics	Wimmer/Schiessel	400	6	HL411	4403CMPH6	13740
MMM	Mechanical Metamaterials	Van Hecke	400	6	HL226 (1-2,8-2,15-2,29-3:Gorl. EM109), Exam	4403MOMM3	12185
PPEU	Particle Physics and the Early Universe	Bojarsky	500	3	HL207, Exam HL106	4403PPHEU	12123
QFT	Quantum Field Theory	Achúcarro	500	6	Tue HL204; Thu HL207 (8-2:HL106; 15-2&2	4403QFTH6	12122
QUO	Quantum Optics	de Dood	400	6	SN174, ps HL226; Exam HL226	4403QOPT6	12184
SMO	Single Molecule Optics	Orrit	500	6	HL226	4403SIMOP	13741
SMP	Soft Matter Physics	Kraft	500	6	HL207 (16-4: EM109; 12-3 HL106)	4403SMPH6	13742
TCM	Theory of Condensed Matter	Cheianov	500	6	HL226; ps HL207 (6-4 HL204); Exam HL214	4403CONDE	12121
THB	Theoretical Biophysics	Schiessel	400	6	HL204 (6-2&13-2 HL207; 13-3:HL226)	4403THBPH	13743
TTP	Topics in Theoretical Physics: Advanced Topics in Modern Cosmology (-beyond L	Silvestri	400	6	HL207	4403TTP17	13744
evP	Evaluation of the Physics courses	Schiessel	-	-	HL207	n.a.	
ASP	Advanced Solid State Physics (AP3211 D)	Blanter/Caviglia	400	6	Delft, preliminary schedule	440313211	17133
EELS	Evolution and Engineering of Living Systems (AP3691D)	Beaumont	400	6	Delft, tbd	440313691	17134
OOL	The origin of Life (AP3461)	Danelon	400	6	Delft, tbd	460313461	17135
BN	Bayesian Networks	Lucas	500	6	tbd	4343BAYNW	13745
ME	Molecular Electronics	vd Zant/vdMolen/vRuitenbeek	500	6	Delft, preliminary schedule	4403MOLE6	15621
NN	Neural Networks	Kowalczyk	500	6	tbd	4343NEUNW	12969
NT	Nanotechnology	Alkemade	400	6	Delft, preliminary schedule	44031NTEC	17136
SAP	Science and the public: contemporary and historical perspectives	Van Lunteren	400	6	Gorl EM109 (9-5,23-5:Gorl 06)	4603SPCH6	13746
SCM	Science Methodology	Ubbink	500	4	tbd	4603SCMTH	15594
cAst	Colloquium Astronomy	Various			see webpage		
cEh	Colloquium Ehrenfestii	Various			see webpage		
cJww	Colloquium Joan van der Waals	Various			see webpage		
lectures	1: 09.00 - 09.45 hrs 3: 11.00 - 11.45 hrs	5: 13.30 - 14.15 hrs 7: 15.30 - 16.15 hrs			Astronomy		n.a.
practical sessions	2: 10.00 - 10.45 hrs 4: 12.00 - 12.45 hrs	6: 14.30 - 15.15 hrs 8: 16.30 - 17.15 hrs			Physics		n.a.