

Concept onderwijsprogramma Bachelor Natuur- en Sterrenkunde 2023-2024

JAAR 1	<u>Kwartaal 1</u>	EC	<u>Kwartaal 2</u>	EC	<u>Kwartaal 3</u>	EC	<u>Kwartaal 4</u>	EC
NWI-WP025	Calculus A - part 1*	3	NWI-WP025	Calculus A - part 2*	3	NWI-WP026	Calculus B - part 1*	3
NWI-NP033B	Programmeren 1	3	NWI-WP027	Lineaire Algebra A	6	NWI-NB004B	Kansrekening	3
NWI-NP039	Classical physics 1a - Mechanica	3	NWI-NP039	Classical physics 1b - Mechanica	3	NWI-NP037	Classical physics 3 - Electricity and magnetism	6
NWI-NP008C	Classical physics 2a - Warmteleer	3	NWI-NP007B	Classical physics 2b - SRT	3	NWI-NP017C	Practicum 1b	1
NWI-NP015B	Kaleidoscoop Sterrenkunde	3	NWI-NP017C	Practicum 1a*	0,5	NWI-NP038	Intro. Nanotech and quantum matter	3
NWI-NP017C	Practicum 1a*	0,5	NWI-NP031C	Observational Astronomy - part 1	1,5	NWI-NP031C	Observational Astronomy - part 2	1,5
	15 ec vereist	15,5		15 ec vereist	17		15 ec vereist	17,5
							15 ec vereist	19
JAAR 2	<u>Kwartaal 1</u>	EC	<u>Kwartaal 2</u>	EC	<u>Kwartaal 3</u>	EC	<u>Kwartaal 4</u>	EC
NWI-NB001C	Theoretical Physics 1 - Voortgezette Mech	6	NWI-NB013C	Theoretical Physics 2 - Quantum mechanics 1	6	NWI-NB071B	Adv experimental Physics 1 -sdm: atoms & molecules	3
NWI-NB081	Writing skills in academia**	3	NWI-NB007C	Practicum 2a*	3	NWI-NB072B	Adv experimental Physics 1 - sdm: solids	3
NWI-NB021C	Programmeren 2	3	NWI-NP029B	Elementaire Deeltjes	3	NWI-NB002D	Theoretical Physics - Electromagnetism	6
NWI-NB007C	Practicum 2a*	3	NWI-NB057B	Sterrenstelsels	3	NWI-NB008D	Practicum 2b*	3
NWI-FFIL101	In. Filosofie & Ethiek	3	NWI-NB046C	Chemistry and Physics of the Atmosphere	3	NWI-NB058C	Exoplaneten (Planetenstelsels)	3
NWI-FNWI008	Inl Leren & Onderwijzen in Betawetenschappen	3	NWI-GCSE002	Energy and Sustainability	3	NWI-NB056	bachelorstage NaSt afdelingsbezoeken	3
NWI-GCSE001	Climate Change: Science and Policy	3				NWI-FCEM02B	Schrijven over Wetenschap**	3
	15 ec vereist	24		15 ec vereist	21		15 ec vereist	21
							15 ec vereist	27
JAAR 3	<u>Kwartaal 1</u>	EC	<u>Kwartaal 2</u>	EC	<u>Kwartaal 3</u>	EC	<u>Kwartaal 4</u>	EC
NWI-NB015C	Adv. Theoretical Physics 1 - quantum mechanics 2*	3	NWI-NB015C	Adv. Theoretical Physics 1 - quantum mechanics 2*	3	NWI-NB073B	Adv experimental Physics 2 - sdm: subatomic physics	3
NWI-NB081	Writing skills in academia**	3	NWI-NB020B	Inl. Groepentheorie	3	NWI-NB033C	Adv. Theoretical Physics 2 - statistical mechanics	3
NWI-FFIL101	In. Filosofie & Ethiek	3	NWI-NB028C	Atoom- en Molecuulfysica	3	NWI-NB016	Quantum mechanics 3 (6 out of 9)***	3
NWI-NB060A	Stralingsprocessen	3	NWI-NB079	Extreme Astrofysica	3	NWI-NB036B	Psychofysica 1	3
NWI-NB027B	Neurofysica 1	3	NWI-NB017B	Gasdynamica	3	NWI-NB056C	Bachelorstage	6
NWI-NB078	Molecules in Space	3	NWI-NB016	Quantum mechanics 3 (3 out of 9)***	3			
NWI-NB062B	Inl. Machine Learning	3	NWI-NB052C	Modern Topics in Condensed Mat Phys	3			
NWI-NB067D	Electronic properties of Solids	3	NWI-NB074B	Neurofysica 2	3			
NWI-NB077	Experimental techniques	3	NWI-NB066B	Oorsprong van de elementen	3			
NWI-NB032B	Inl Algemene Relativiteitstheorie	3						
	15 ec vereist	30		15 ec vereist	27		15 ec vereist	18
							15 ec vereist	18

notes:

mobility window: semester 5

*courses marked with an asterisk are semester courses which add up to either 3 EC (Practicum 1) or 6 EC (calculus A, B, Practicum 2a and 2b, Adv. Theoretical Physics 1 and 2 with ONE exam)

** course schrijven over wetenschap or Writing skills in academia can be chosen in different semesters

*** quantum mechanics 3 is given in semester 5 (Q2) and semester 6 (Q3): PAP, PMM (both 6 , PAP en PMM 9EC - different types of exams)

	verplichte cursus
	keuze cursus natuurkunde
	keuze cursus anders
rood	ook aangeboden voor Wiskunde