

Applied Physics (pre)master's programme 2021/2022

Side-entry students hbo TN and EE

(See also the [Curriculum master AP](#) for all the Applied Physics curricula and the [Transitional arrangements AP](#). It is advisable to [make an appointment](#) to discuss your study planning with the AP study advisor, before the start of the academic year.)

Premaster/transfer minor

Quartile	Course code	Name	EC
1A	202001172	Calculus A for pre masters (van Ommeren)	4.0
1A	202001178	Linear Algebra (Antoniadis)	3.0
1A	202001435	Models for DB and PM (Van Veldhoven)	4.5
1A	202000660	Introduction to Solid State Physics (Kooij)	5.0
1B	202001174	Calculus B for pre masters (Van Ommeren)	3.0
1B	202000698	Quantum Mechanics (Brinkman)	6.0
1B	202001485	Optica Theory for PM (Saive)	4.5
Total premaster			30

First and second year (M1 en M2)			
Quartile	Course code	Name	EC
Homologation physics courses (30 EC)			
1B	202000699	Hilbert Space (Bokdam)	2
2A	202000682	Elektriciteit en Magnetisme (Boller)	5
2A	202000703	Partial Differential Equations (Geurts)	2
2A	202000702	Statistical Physics (Mugele)	6
2B	202000706	Electrodynamics (Brocks)	6
2B	202000705	Fluid Physics (Van der Meer)	7
2B	202000707	Numerical Methods for PDE (Geurts)	2
Compulsory master courses (20 EC)			
1A	191411291	Applied Quantum Mechanics (Leppert)	5
1B	201900080	Mathematical and Numerical Physics (Stevens)	5
2A	191470241	Heat and Mass Transfer (Krug)	5
2B	201900282	Small Signals and Detection (Marpaung)	4
2B	201900281	Ethics and Cultural Awareness (Offerhaus)	1
Specialization courses (20 EC)¹			
Elective courses physics/technical (10 EC)			
Master's Assignment (40 EC)			
Year	201800344	Master's Assignment Physics Aspects	20
Year	201800345	Master's Assignment General Aspects	20
Total master			120

¹ The specialisation courses for every chair in Applied Physics are listed in the [Curriculum Applied Physics](#).