

preMaster programme Applied Physics 2019-2020

Contact Brigitte Tel, [Student Advisor AP](#), for information about participating or admission to Applied Physics.

For some UT BSc programmes students are allowed to participate in regular modules of TN as part of their minor. In the minor [CS Applied Physics](#) non TN students can also participate in TN or AP courses or (parts of) modules.

Admission courses for AM/AT/BMT/EE students:

201800130 Condensed Matter Physics for AT, Q 1A or

201600067 Condensed Matter Physics for TN (Dutch), Q 2A (15 EC)¹⁾

201500155 Waves, Interference and Probability, Q 1B

- Quantum Mechanics (6 EC)
- Hilbert Space (2 EC)¹⁾
- Optics (7 EC)²⁾

201600068 Continuum Dynamics, Q 2B

- Electrodynamics (6 EC)³⁾
- Numerical Methods for PDE (2 EC)¹⁾
- Physics of Fluids (7 EC)²⁾

Depending on the specialization in the MSc AP other courses can be added.

Admission courses for CHE/UTC students:

201700164 Elektromagnetism and Measurements, Q 2A

- Elektromagnetism (5 EC)
- Instrumentation (4 EC)⁴⁾
- Analytical Programming (1,0 EC)

201800130 Condensed Matter Physics for AT, Q 1A or

201600067 Condensed Matter Physics for TN (Dutch), Q 2A

- Statistical Physics (5/6 EC)
- Solid State Physics (5/7 EC)⁴⁾

201500155 Waves, Interference and Probability, Q 1B

- Quantum Mechanics (6 EC)
- Hilbert Space (2 EC)¹⁾

201600068 Continuum Dynamics, Q 2B

- Electrodynamics (6 EC)³⁾

Depending on the specialization in the MSc AP courses can be added (for example Dynamics, Models, Physics of Fluids or Optics)..

¹⁾ For AM and UTC students the Math part (PDE, Hilbert Space, Numerical Methods) is already covered by their own programme and can be skipped

²⁾ Depending on the specialization in the master the student can choose one of the two courses Optics or Physics of Fluids.

³⁾ Electrodynamics is not necessary for admission to MSc AP. When this course is not a part of the Bachelor programme it will be a compulsory course of the Master AP with exception of EE students.

⁴⁾ For UTC students to participate in a practical they must have done the Basic Lab course of AT.