

# Department of Physics, NTNU

## Course Structure

**Degree: Master of Science**

**Points of Credit: Twenty-four**

**Four year limit: Students pursuing the Master degree must complete all requirements including examinations and the defense of the thesis within four years of their first registration in the Master program of Physics department of NTNU.**

Compulsory subjects	Optional courses (at least 3 points)
Quantum Mechanics (I), (II)      6 points in total	Statistical Mechanics (II)      3 points
Statistical Mechanics (I)      3 points	Classical Electrodynamics (II)      3 points
Classical Electrodynamics (I)      3 points	Classical Mechanics      3 points
Graduate Colloquium (I), (II), (III)      3 points in total	
Two field-specific courses      6 points in total	

## Course Structure

**Degree: Doctor of Philosophy (Ph.D.)**

**Points of Credit: Eighteen**

**Seven year limit: Students pursuing the Ph. D degree must complete all requirements including examinations and the defense of the doctoral dissertation within seven of their first registration in the Ph. D program of Physics department of NTNU.**

Compulsory subjects
Quantum Mechanics (I), (II)      6 points in total
Statistical Mechanics (I)      3 points
Classical Electrodynamics (I), (II)      6 points in total
Classical Mechanics      3 points

1. Conditions on the fulfillment of the eighteen points of credit:
  - (1) at least 3 points from field-specific courses.
  - (2) 6-12 points from special topics related to the Ph. D. dissertation.
  - (3) at least 3 points from courses in other subfields.
  - (4) at least 3 points from graduate colloquium.
2. Qualifying examination.
3. Defense of the doctoral dissertation.
4. At least one research article published in or accepted by journals listed in SCI, SSCI, EI, TSSCI or A&HCI.

5. Serving as a teaching assistant in the department for at least one semester or having equivalent teaching experience.