

Master of Science Program in Theoretical Physics

Research Focus

- Theoretical Structure
- Classical Dynamics
- Quantum Dynamics
- Classical Thermodynamics

Structure of the Program

1. Credit Requirements *

Requirements	Option 1.2
Coursework	24
- Core Courses	22
- Electives	2
Required Non-credit Courses	4
Thesis	12
Total	36

* Minimum credits required

2. Core Courses

Requirements	Option 1.2	
	Course No.	Cr.
Mathematical Methods of Physics	897501	2
Equilibrium Thermodynamics	897511	3
Equilibrium Statistical Mechanics and Kinetic Theory	897513	3
Vibrations and Waves	897521	3
Dynamical System	897531	2
Classical Dynamics	897561	3

Requirements	Option 1.2	
	Course No.	Cr.
Classical Field Theory	897563	3
Non-Relativistic Quantum Mechanics	897565	3
Total	8	22

3. Electives

Requirements	Option 1.2	
	Course No.	Cr.
Green's Functions and Propagation	897503	2
Numerical Methods in Physics	897505	2
Fluid Dynamics	897522	2
Introduction to Cosmology	897571	2
Total	≥1	≥2

4. Required Non-credit Courses

Requirements	Option 1.2	
	Course No.	Cr.
Research Methodology in Science and Technology	897509	3
Seminar 1	897599	1
Total	2	4

5. Thesis Credit Requirements

Requirements	Option 1.2	
	Course No.	Cr.
Thesis 1, Option 1.2	897591	6
Thesis 2, Option 1.2	897592	6
Total	2	12