Overview of the program structure

Bachelor

3 years

Master

2 years

Job

Job
Overview of our Bachelor programmes

Basic courses, 120 hp

Programme specific courses
≥ 30 hp
Optional courses, ≤30 hp

Bachelor diploma work, 15 hp
Option 1
“A flavor of physics…”
≥45 hp in Mathematics

- Mathematical method for vibration waves and diffusion FYSB21
  - Fall Period 2 and Spring Period 4

- Basic Quantum Mechanics FYSB22
  - Fall Period 2 and Spring Period 4

- Classical Mechanics and Special Relativity FYTB14
  - Spring Period 1 in 2022
<table>
<thead>
<tr>
<th>Year 1</th>
<th>Physics 1: FYSA12, FYSA13, FYSA14</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Math 1: MATA21, MATA22, NUMA01</td>
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<tr>
<td>Year 2</td>
<td>Math 2: MATB21, MATB22</td>
</tr>
<tr>
<td></td>
<td>Physics 2: FYSB21, FYSB22, FYSB23, FYSB24</td>
</tr>
</tbody>
</table>

Option 2

“Foundation of physics…”

Pink color denotes courses that are given every semester.
Physics from the ancient time till today

FYSA12
Electricity and Mechanic

FYSA13
Optic, Wave, and Quantum Physics

FYSA14
Thermodynamic, Climate, and Experimental methodology
Scientific experimental methodology

Physical World

Measurement

Analyse/Reflect

Laboratory works

Tools: Mathematics

Confrontation of observations to models/theories
Scientific experimental methodology

- Measurement
- Analyse/Reflect
- Laboratory works
- Theoretical representation
- Confrontation of observations to models/theories
Option 3
“A physics degree…”

Pink Color denote courses that are given every semester

Year 1
- Physics 1: FYSA12, FYSA13, FYSA14
- Math 1: MATA21, MATA22, NUMA01

Year 2
- Math 2: MATB21, MATB22
- Physics 2: FYSB21, FYSB22, FYSB23, FYSB24

Year 3
- Physics 3: Programme specific / Elective courses
- Elective courses / Erasmus (30 hp)
- Bachelor project (15 credit)
Our Bachelor programs in Physics

- Theoretical Physics
- Astrophysics / Astronomy
- Physics
- Meteorology / Biogeophysics
- Sjukhusfysik - SWE
- Ämneslärare - SWE

http://www.fysik.lu.se
Master programs in Physics, 120 hp

- Physics - general
- Nanoscience
- Particle Physics
- Biological Physics
- Material Science
- Photonics
- Theoretical Physics
- Astrophysics
How to find courses?

www.fysik.lu.se  www.lu.se/studera
Basic Level

Compulsory introduction meetings
A list of all the compulsory introduction meetings is found here.

General information
To the left you find a list of all the basic courses given at the department of physics. If you are looking for a specific course element or submodule this is found under the course packages FYSA01, FYSA21 and FYSG01.

These are the basic level courses and links to the course homepages. Courses with names in English are given in English.

Course webpages on Live@Lund
Contact
List of teachers for the basic level courses
Schedule
Find out more about course schedules in TimeEdit

General and Theoretical Physics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Study Period</th>
</tr>
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<tbody>
<tr>
<td>FYSA01</td>
<td>Physics 1, General Physics</td>
<td>30</td>
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<tr>
<td>FYSA01</td>
<td>Fysik 1, Allmän Fysik</td>
<td>30</td>
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<tr>
<td>FYSA15</td>
<td>Målfysik</td>
<td>15</td>
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<tr>
<td>FYSB11</td>
<td>Basic Quantum Mechanics</td>
<td>7.5</td>
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<tr>
<td>FYSB12</td>
<td>Basic Statistical Mechanics and Quantum Statistics</td>
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<tr>
<td>FYSB05</td>
<td>Applied Work</td>
<td>15</td>
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<tr>
<td>FYSC01</td>
<td>Physics 3, Modern Physics</td>
<td>30</td>
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<tr>
<td>FYSC11</td>
<td>Atomic and Molecular Physics</td>
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<tr>
<td>FYSC12</td>
<td>Nuclear Physics and Reactors</td>
<td>7.5</td>
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<tr>
<td>FYSC13</td>
<td>Solid State Physics</td>
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<tr>
<td>FYSC14</td>
<td>Particle Physics, Cosmology and Acc.</td>
<td>7.5</td>
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<tr>
<td>FYSD11</td>
<td>Fundamental Combustion</td>
<td>7.5</td>
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<tr>
<td>FYSD13</td>
<td>Process- and Component Technology</td>
<td>7.5</td>
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<tr>
<td>FYSD21</td>
<td>Materials Analyses at the nanoscale</td>
<td>7.5</td>
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<tr>
<td>MNX901</td>
<td>Introduction to Programming and Computing for Scientists</td>
<td>7.5</td>
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</tr>
</tbody>
</table>
Study advisors / Coordinators

Mathieu Gisselbrecht, mathieu.gisselbrecht@fysik.lu.se, 046-222 82 75
  – Physics / Chemistry/ Physics

Nils Ryde, nils.ryde@astro.lu.se, 046-222 15 74
  – Astrophysics / Astronomy / Theoretical Physics

Elna Heimdal Nilsson, elna.heimdal_nilsson@forbrf.lth.se, 046-222 41 03
  – Meteorology / Biogeophysics