



LUNDS
UNIVERSITET

Information about studies in Physics

JOHAN ZETTERBERG | MALIN JONSSON

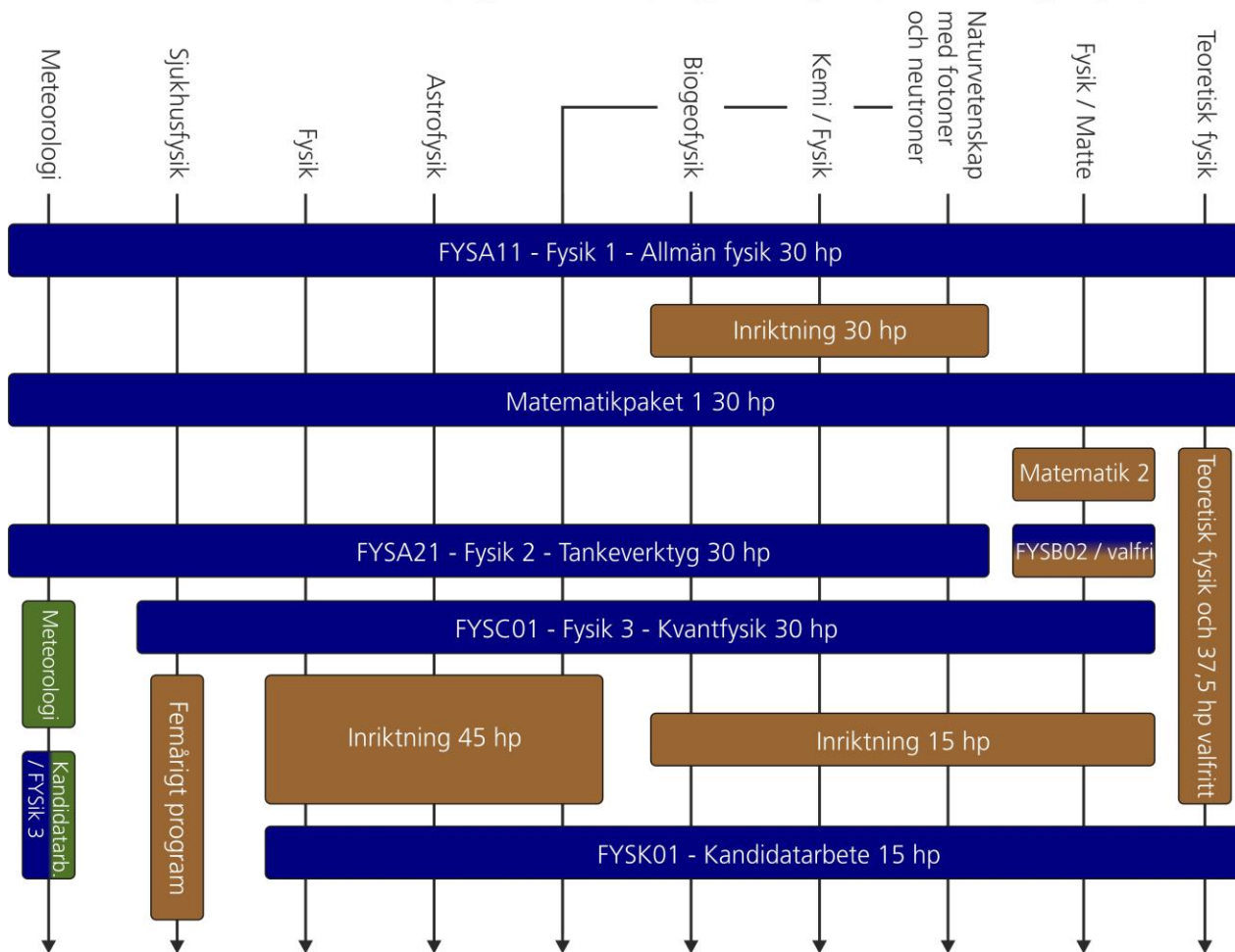


Bachelor programs in Physics, 3 years 180hp

- Physics
- Theoretical Physics
- Chemistry / Physics (Swedish)
- Metrology / Bio-geophysics
- Astrophysics / Astronomy
- Science with photons and neutrons (Swedish)
- Radiation physics at the hospital (Swedish), 5 years
- Teacher in Physics (Swedish), 5 years



Naturvetenskapligt Kandidatprogram i Fysik (rek. Studiegångar)

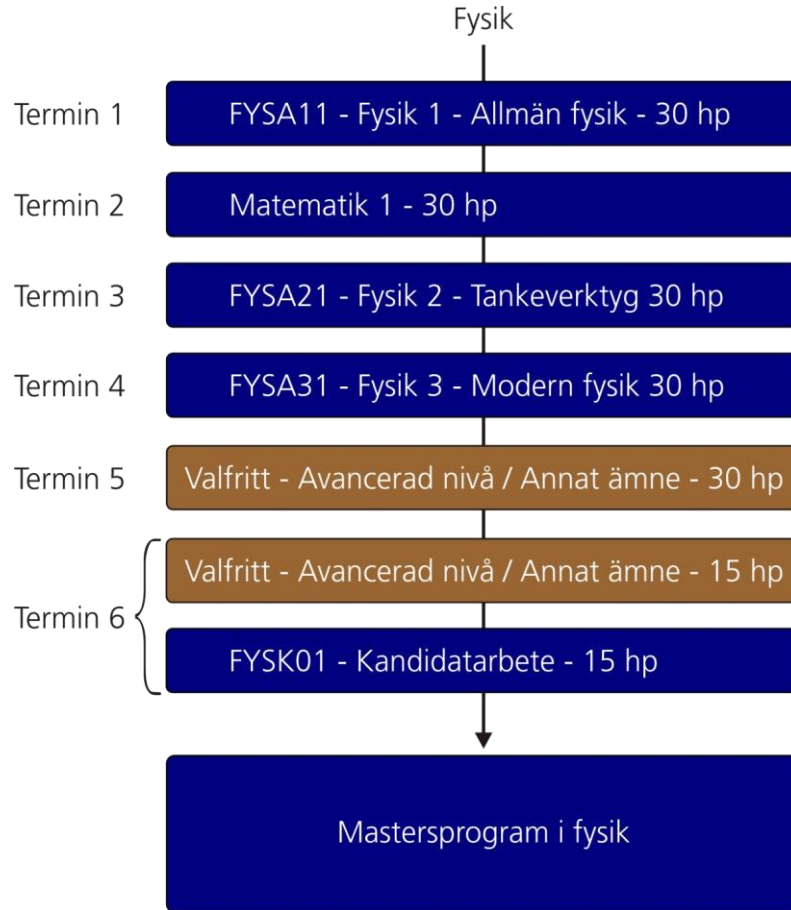


A few words about Physics in Lund

- Flexible
 - All the bachelor program in physics has a joint course package of one/two years, easy to change program
 - 45 hp of optionally courses in the Bachelor programs
- Freedom
 - You decide what content you want in your Bachelor degree!
- Research or Industry?
 - 70-75% of the student gets employed out side the University
 - In Lund is there a unique possibility to work in the Industry or within the research front at the University
 - MAX-lab and ESS – world leading facilities
 - International working environment with connections all over the world



Study plan for a Bachelor in Physics



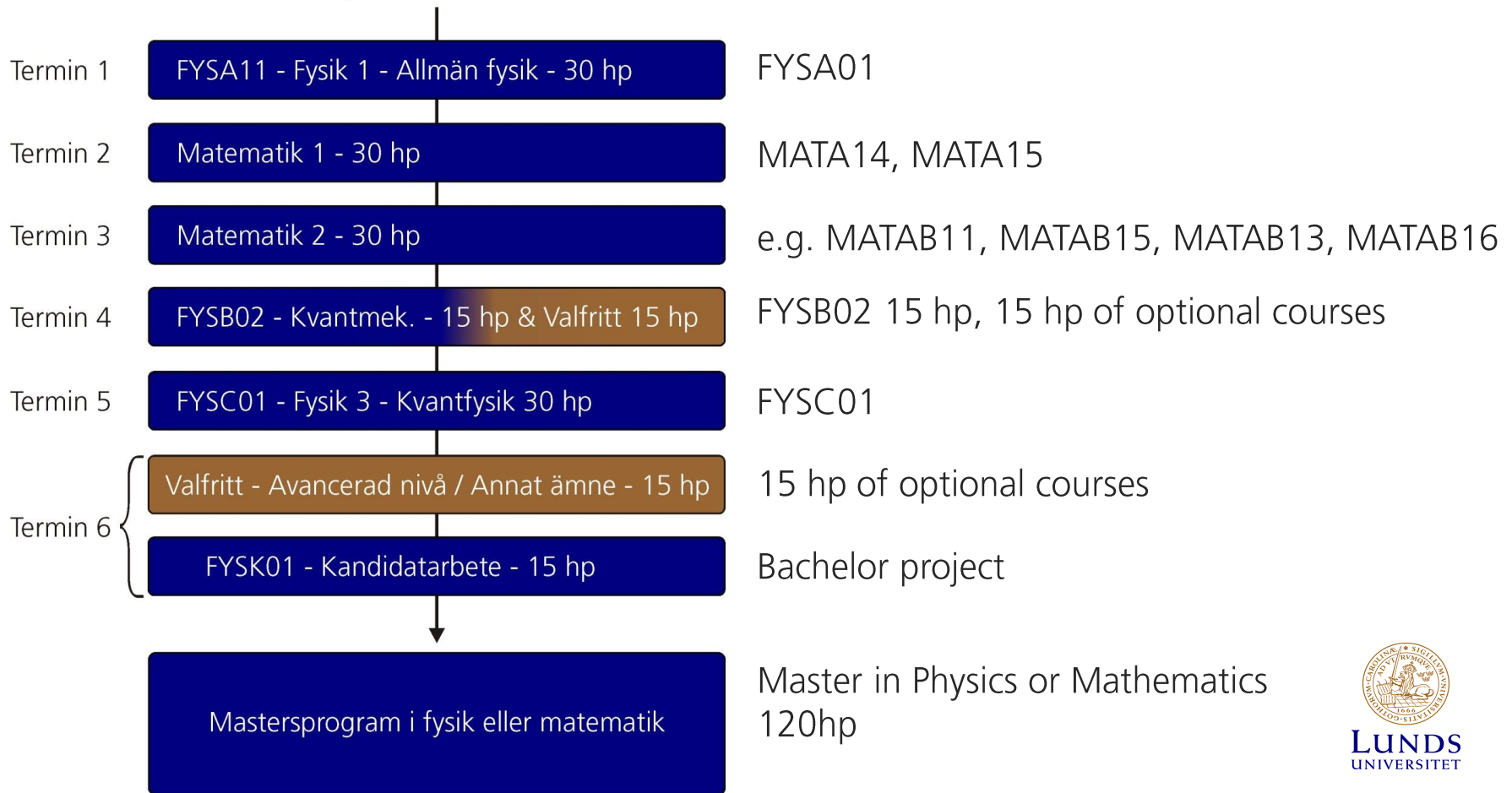
Blue color courses are given every semester.

Brown color courses are given ones a year.



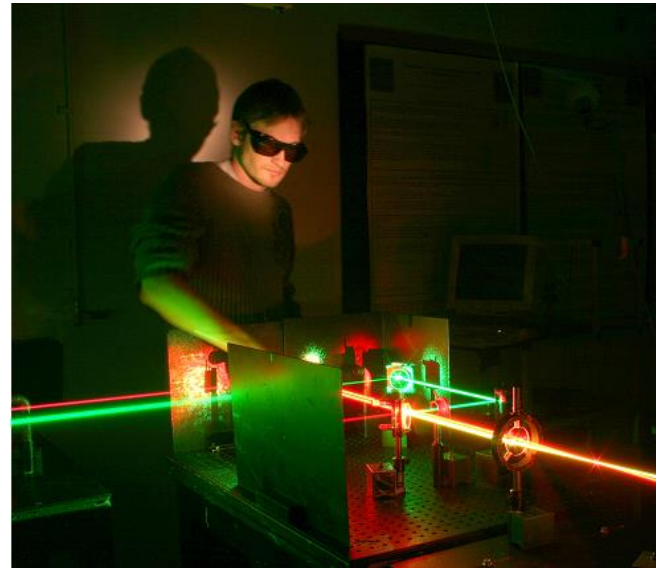
Study plan for a Bachelor in Physics /Mathematics

Fysik / Matematik



Master in Physics in Lund

- General Physics
- Biological Physics and Computational biology
- Material Science
- Nanoscience
- Particle Physics
- Photonics
- Theoretical Physics



Study advisors / coordinators

Malin Jonsson, malin.jonsson@fysik.lu.se, 046-222 77 28

– Physics

Johan Zetterberg, johan.zetterberg@fysik.lu.se, 046-222 77 28

– 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

Stacey Ristinmaa Sörensen, stacey.sorensen@sljus.lu.se, 046-222 72 65

– Science with photons and neutrons

– Chemistry / Physics

Anna Stenvall, anna.stenvall@med.lu.se, 046-17 31 21

– Radiation Physics

Lassana Ouattara, lassana.ouattara@fysik.lu.se, 046-222 77 58

– Teacher in Physics



Apply 15 oktober
via antagning.se / StiL

Physics1 General Physics, 30hp: FYSA01





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Masters programme in Physics

Semester 1

- FYSM01 - Physics 4 - Intro. to advanced Physics - 30 hp
- FYSN11 - Physics experiments in Research and Society 7,5 hp
- FYSN13 - Electromagnetism - 7,5 hp
- FYSN14 - Lasers - 7,5 hp
- FYSN15 - Experimental tools - 7,5 hp
- FYSN17 - Quantum mechanics - 7,5 hp
- FYTN02 - Statistical Mechanics - 7,5 hp
- FYTN03 - Computational Physics - 7,5 hp

Semester 2

- Optional courses - 30 hp
- Possible to start 60 hp Master's degree project halftime

Semester 3

- Optional courses - 30 hp
- Possible to start 30 hp Master's degree project halftime
- Continue 60 hp Master's degree project halftime

Semester 4

- Master's degree project fulltime - 30 hp
- Continue 30 hp Master's degree project halftime
- Continue 60 hp Master's degree project halftime



Naturvetenskap med fotoner och neutroner



Astrofysik

Termin 1

FYSA11 - Fysik 1 - Allmän fysik - 30 hp

Termin 2

Matematik 1 - 30 hp

Termin 3

FYSA21 - Fysik 2 - Tankeverktyg 30 hp

Termin 4

FYSC01 - Fysik 3 - Kvantfysik 30 hp

Termin 5

Astronomi 1 - 30 hp

Termin 6

Astronomi - 15 hp

FYSK01 - Kandidatarbete - 15 hp

Mastersprogram i fysik eller astronomi



Biogeofysik / Klimatologi

Termin 1

FYSA11 - Fysik 1 - Allmän fysik - 30 hp

Termin 2

Klimatsystem - 15 hp och Ekosystemanalys - 15 hp

Termin 3

Matematik 1 - 30 hp

Termin 4

FYSA21 - Fysik 2 - Tankeverktyg 30 hp

Termin 5

FYSA31 - Fysik 3 - Modern fysik 30 hp

Termin 6

Markytansprocesser och landskapsdynamik - 15 hp

FYSK01 - Kandidatarbete - 15 hp

Mastersprogram i naturgeografi eller fysik



Meteorologi / Klimatologi

Termin 1

FYSA11 - Fysik 1 - Allmän fysik 30 hp

Termin 2

Matematik 1 - 30 hp

Termin 3

FYSA21 - Fysik 2 - Tankeverktyg 30 hp

Termin 4

Klimatsystemet 15 hp

Fluidodynamik 7,5 hp / METC01 - Meteorologi 7,5 hp

Termin 5

METD01 - Meteorologi (praktik) 15 hp

METD02 - Meteorologi 7,5 hp / Atmosfärskemi 7,5 hp

Termin 6

FYSB03 - Kärnfysik 7,5 hp / FYSB04 - Atomfysik 7,5 hp

FYSK01 - Kandidatarbete - 15 hp

Masterprogram i Klimatologi / Naturgeografi / Fysik



Sjukhusfysik

Termin 1

FYSA11 - Fysik 1 - Allmän fysik - 30 hp

Termin 2

Matematik 1 - 30 hp

Termin 3

FYSA21 - Fysik 2 - Tankeverktyg 30 hp

Termin 4

FYSC01 - Fysik 3 - Kvantfysik 30 hp

Termin 5
och framåt

Fortsatt femårigt program -
Studier vid Medicinsk strålningsfysik



Teoretisk fysik

Termin 1 FYSA11 - Fysik 1 - Allmän fysik - 30 hp

Termin 2 Matematik 1 - 30 hp

Termin 3 FYTA11 - Modellering och simulering - 30 hp

Termin 4 FYTA12 - Grundläggande teoretisk fysik - 30 hp

Termin 5 Valfritt - 30 hp

FYTA13 - Den vetenskapliga metoden - 7,5 hp

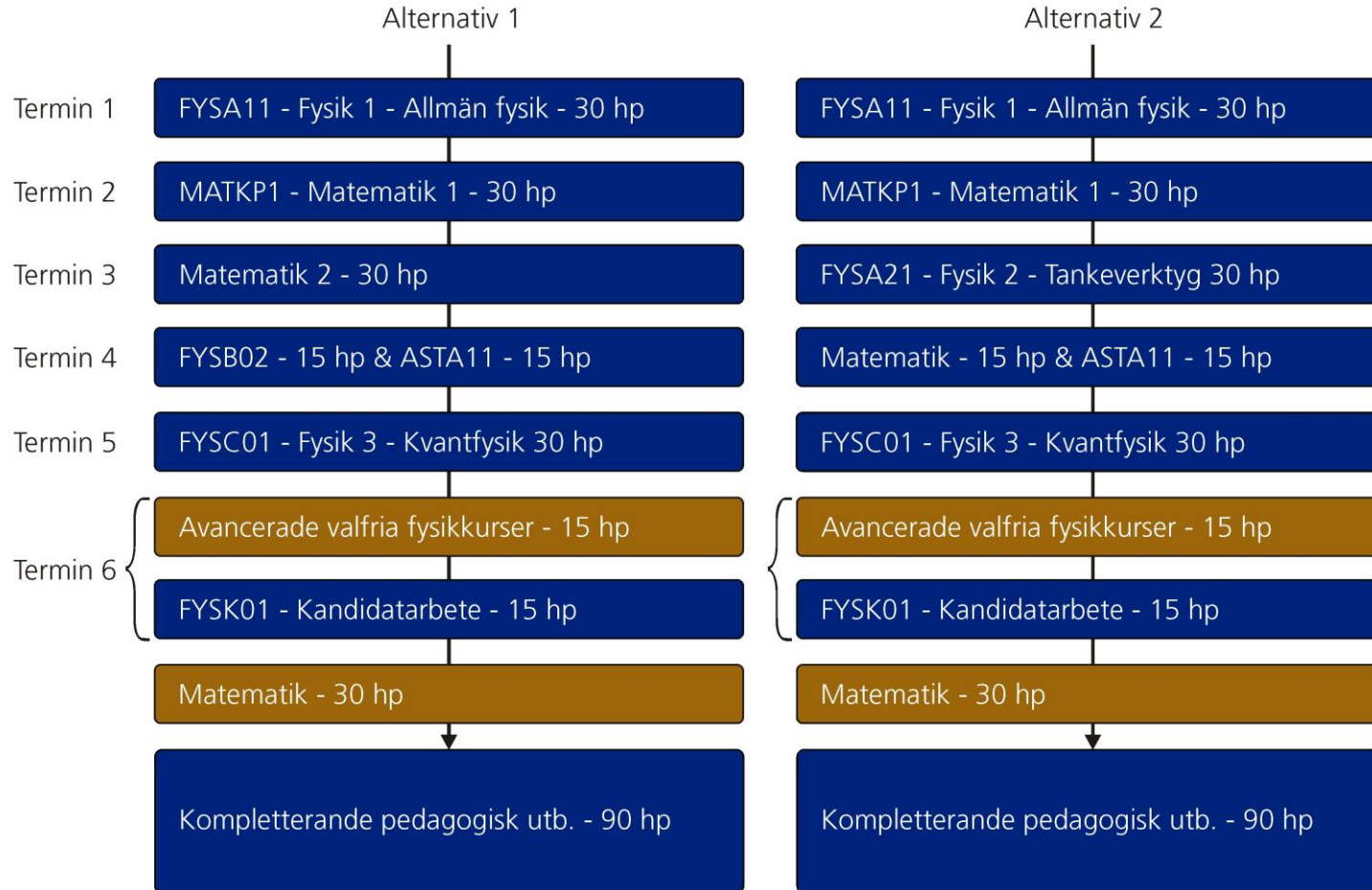
Termin 6 Valfritt - 7,5 hp

FYTK01 / FYSK01 - Kandidatarbete - 15 hp

Mastersprogram i fysik



Kombination Fysik / lärare i Fysik och matematik



Fysik / Kemi

Termin 1

FYSA11 - Fysik 1 - Allmän fysik - 30 hp

Termin 2

Kemi 1 - 30 hp

Termin 3

Matematik 1 - 30 hp

Termin 4

FYSA21 - Fysik 2 - Tankeverktyg 30 hp

Termin 5

FYSC01 - Fysik 3 - Kvantfysik 30 hp

Termin 6

Kemi - 15 hp

FYSK01 - Kandidatarbete - 15 hp

Mastersprogram i fysik eller kemi

