

BSc Degree Course Package for Southwest Students 2021/22

The Swedish academic year is divided into four equal Study periods. One year of studying corresponds to 60 European (ECTS) credits (cr.), thus one study period typically comprises 15 cr. Each study period is finished off by an examination week. For each course there are three examination opportunities every year, however, one of these is in late August.

The students normally study two courses in parallel each study period. The *application codes* are found on the right of each course (A53XX). Note that the courses for the spring semester do not yet have application codes. The students will apply for these courses once they have started their studies here in Umeå.

Autumn Semester 2021	
Study period 1 September – October	Study period 2 November – mid-January
Electrodynamics with Vector Analysis, 7.5 cr., L, UMU-A5366 (requires a previous course in electromagnetism)	Atomic and Molecular Physics, 7.5 cr., L, CL, UMU-A5326 (requires Introductory Quantum Mechanics or similar)
Introductory Quantum Mechanics, 7.5 cr., L, UMU-A5349 (requires a first course in quantum physics)	Thermodynamics, 6 cr., L, UMU-A5302 and
or	Topics in Thermodynamics , 1.5 cr., UMU-A5368
Physical Measurement Techniques, 7.5 cr., L, UmU-A5360 (Please choose this alternative only if you have already studied quantum mechanics)	



Spring Semester 2022	
Study period 3	Study period 4
mid-January – March	March – early June
Statistical Physics, 4.5 cr., UMU-A53XX (requires Thermodynamics and Introductory	Two of:
Quantum Mechanics)	Analytical Mechanics, 7.5 cr., UMU-A53XX Advanced Materials, 7.5 cr., UMU-A53XX
and	Advanced Fluid Mechanics, 7.5 cr., UMU-A53XX Solar Cells, 7.5 cr., UMU-A53XX
Solid State Physics , 7.5 cr., L, UMU-A53XX (requires Statistical Physics)	If Arctic Science, 4.5 cr. was chosen in the
Research Topics in Physics, 3 cr., UMU-A53XX	previous period, the student can choose to study:
or	Analytical Mechanics, 6 cr., UMU-A53XX (instead of the 7.5 cr. course).
Arctic Science*, 4.5 cr., L, CL, UMU-A53XX	

^{*} Parts of Arctic Science are offered in Kiruna, 600 km north of Umeå, during a long weekend. The students are required to pay for transportation and accommodation themselves. This option gives 16.5 credits in study period 3. Thus, if the student wants, he/she can opt to choose the shorter course Analytical Mechanics 6 cr. in study period 4 and still have a total of 30 credits for the semester.

The Swedish Migration Board requires applications comprising 30 credits per semester in order to issue a student visa.

When sending the course application, the student should apply only for the autumn semester courses initially. Information about how to apply for the spring courses will be provided in the beginning of the autumn semester.