

Education plan

for

Master's Programme in Molecular Biophysics
Masterprogram i molekylär biofysik

120.0 Higher Education
Credits
120.0 ECTS credits

Programme code:	NMBFO
Valid from:	Autumn 2012
Date of approval:	2007-02-05
Changed:	2012-05-21
Department:	Department of Biochemistry and Biophysics

Decision

Prerequisites and special admittance requirements

Bachelor's Degree or equivalent, including 90 ECTS of Chemistry and/or Physics.
Alternatively, a total of 180 ECTS, of which at least 150 ECTS within Natural Sciences, including 60 ECTS Chemistry and/or Physics.

Also required is knowledge equivalent to Swedish upper secondary course English B or equivalent to one of the following tests; Cambridge CPE and CAE: Pass, IELTS: 6.0 (with no part of the test below 5.0), TOEFL (paper based): 550 (with minimum grade 4 on the written test part), TOEFL (computer based): 213, TOEFL (internet based): 79.

Programme structure

Molecular Biophysics provides a molecular view on the phenomena of life and a thorough education in experimental and theoretical biophysical methods. The programme starts with one semester of compulsory courses. Among these there are both theoretically oriented courses, which provide the necessary theoretical background for understanding biophysical principles, as well as more experimental courses, which make the students experienced in advances techniques. All courses are given by professors who perform world-class research. Hands-on laboratory course work and individual research projects are an integrated and essential part of the program. The program allows a high degree of freedom of choice: students can specialize in theoretical or experimental biophysics, or read both lines in parallel. The final degree project given an excellent opportunity to gain research experience, and the project is carried out in one of the affiliated groups at the participating Universities. The research conducted in the different groups includes both theoretical and experimental aspects of biophysics, including a wide variety of techniques and applications. For more information see the research descriptions at the participating departments. The Masters degree program in Molecular Biophysics is aimed at students from Sweden and abroad with a bachelor degree in chemistry or physics. No knowledge in biology is required. The Masters degree program is organized by the Department of Biochemistry and Biophysics in collaboration with the Department of Physical, Inorganic and Structural Chemistry, both at Stockholm University.

Goals

Courses