Department of Biosciences and Nutrition

Stockholm University

Syllabus

for course at first level

Molecular Nutrition I
Molekylär nutrition I

7.5 Higher Education Credits
7.5 ECTS credits

Course code:	NU3009
Valid from:	Autumn 2014
Date of approval:	2008-09-01
Changed:	2014-03-10
Department	Department of Biosciences and Nutrition
Main field:	Nutrition
Specialisation:	G1N - First cycle, has only upper-secondary level entry requirements

Decision

This syllabus has been approved by the Board of the Faculty of Science at Stockholm University 2008-09-01 and revised 2014-03-10.

Prerequisites and special admittance requirements

To be qualified for applying to this course you must have completed at least 90 hp in natural science, including at least 30 hp chemistry (of which 15 hp biochemistry) and the course Cell- and Molecular Biology, GN, 15 hp (BL2012).

Course structure

Examination code	Name	Higher Education Credits
N001	Molecular Nutrition I	7.5

Course content

The course covers the molecular mechanisms through which dietary factors play a role in the development of today's public health diseases. Current methods that are used in molecular nutrition research are also covered, as well as ethical aspects on research on animals. The above mentioned knowledge is useful for example in work in food industry, and food and health education/information. The course also constitutes a basis for further studies and research in biomedicine in general, and in particular in areas that relate to diet.

Learning outcomes

It is expected that the student after taking the course will be able to:
•understand, explain and discuss the molecular mechanisms of dietary factors and their role in the development of diseases.
•identify and suggest suitable methods for studying molecular mechanisms.
•search and put together scientific material in the field of molecular nutrition.
•discuss ethical considerations in the use of animals in medical research

Education

The education consists of lectures, group education, exercises, project work, presentations, submitted work,

and practical laboratory work. Participation in the group education, seminars, and practical laboratory work is compulsory. An examiner may rule that a student is not obliged to participate in certain compulsory education if there are special grounds for this after consultation with the relevant teacher.

Forms of examination

a. Examination for the course is in the following manner: measurement of knowledge takes place through written exmination and oral presentations.

b. Grading is carried out according to a 7-point scale related to learning objectives:
A = Excellent
B = Very Good
C = Good
D = Satisfactory
E = Sufficient
Fx = Fail
F = Fail

c. Grading criteria for the course will be distributed at the start of the course.

d. A minimum grade of E is required to pass the course, together with completion of all practical laboratory work, seminars, and participation in all compulsory education.

e. Students who fail to achieve a pass grade in an ordinary examination have the right to take at least further four examinations, as long as the course is given. The term “examination” here is used to denote also other compulsory elements of the course. Students who have achieved a pass grade on an examination may not retake this examination in order to attempt to achieve a higher grade. Students who have failed to reach a pass grade on two occasions have the right to request that a different teacher be appointed to set the grade of the course. A request for such appointment must be sent to the departmental board.

f. Possibility of completing Fx up to a passing grade is not given in this course.

Interim

Students may request that the examination is carried out in accordance with this syllabus even after it has ceased to apply. This right is limited, however, to a maximum of three occasions during a two-year-period after the end of giving the course. A request for such examination must be sent to the departmental board.

Limitations

The course may not be included in a degree together with the courses Molecular Nutrition, pk, 10p (NÄ3090), Molecular Nutrition I, 5p (NÄ1140), Molecular Nutrition, 15 hp (NU8007), or the equivalents.

Misc

The course is included in the Bachelor's Programme of Nutrition, but can also be taken as an independent course.

Required reading

Course literature is decided by the departmental board and is described in an appendix to the syllabus.