COURSE SYLLABUS

Biokemi G1F
Biochemistry G1F
7.5 credits

1 Name, Scope and Level of the Course
The course is provided by the University of Skövde and is named Biochemistry G1F. It comprises 7.5 credits and is on basic level. The level of progression of the course is G1F.

2 Objectives
After completed course the student shall be able to:

• be able to describe the role of proteins as catalysts and perform enzyme kinetic calculations,
• describe generally the metabolism of carbohydrates, proteins and fats, its regulation and integration, and how metabolism is affected by metabolic diseases and physical exercise,
• use the computer to analyse data from enzyme kinetic experiments,
• plan, perform and evaluate laboratories in groups and present the results in writing, and
• describe and discuss the metabolic principles behind the most common diets.

3 Course Content
The course describes composition and regulation of the most important metabolic and energy-providing processes that occur in prokaryotic and eukaryotic cells. Important aspects are the understanding of the role of proteins in catalysis as well as performing enzyme kinetic experiments and calculations.

4 Forms of Teaching
The teaching comprises computer laboratory work, lectures and laboratory sessions.

The teaching is conducted in English.

5 Examination
The course is graded A (Excellent), B (Very good), C (Good), D (Satisfactory), E (Sufficient) or F (Fail).

Registration of examination results:

<table>
<thead>
<tr>
<th>Name of examination</th>
<th>Credits</th>
<th>Grading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supervised examination(^1)</td>
<td>5 credits</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Laboration</td>
<td>1.5 credits</td>
<td>G/U</td>
</tr>
<tr>
<td>Project presentation</td>
<td>1 credits</td>
<td>G/U</td>
</tr>
</tbody>
</table>

\(^1\) Determines the final grade of the course.

Students with a permanent disability who have been approved for special educational support may be offered adapted or alternative examinations.

6 Admission Requirements
The prerequisites for this course are 30 credits passed in bioscience alternatively 30 credits in medicine, including 7.5 credits in chemistry (or equivalent).

7 Subject, Main Field of Study and Disciplinary Domain
The course forms a part of the academic subject area of Chemistry. The course is not a part of any main field.
of study at the University of Skövde. The disciplinary domain of the course is Natural Sciences.

Every course at the University of Skövde belongs to a subject. The division of subjects is used for follow-up and quality assurance. A main field of study is an area in which a degree can be awarded. Disciplinary domain is a division which is used by the government for the allocation of resources for studies at basic level and advanced level.

8 Approval of Course and Course Syllabus
The course was approved by the Curriculum Committee for Bioscience on 28 November 2019. This course syllabus was approved by the Curriculum Committee for Bioscience on 27 February 2020. It is valid from 1 July 2020 and replaces the course syllabus approved 28 November 2019.

9 Overlapping with Another Course
This course cannot constitute a part of a degree also containing a course the content of which is totally or partly equivalent to the content of this course, e.g.
Biochemistry G1F 7.5 credits
General Biochemistry B13, Intermediate level 5 points

10 Additional Information
Further information will be available on the university’s website before a course is given.

National and local regulations for higher education are available on the university’s website.

 Upon completion of the course there will be a follow-up. The main purpose of this follow-up is to contribute to improvements of the course. The students’ experiences and views constitute one of the criteria for the follow-up and are gathered by means of course evaluations. The students will be informed of the results of the follow-up and any decisions regarding actions that are to be taken.

11 Course Literature and Other Educational Materials