1 Name, Scope and Level of the Course

The course is provided by the University of Skövde and is named Pharmacology I G2F. It comprises 7.5 credits and is on basic level. The level of progression of the course is G2F.

2 Objectives

After completed course the student should be able to:

- account for pharmacodynamic and pharmacokinetic principles
- describe and draw conclusions from interaction mechanisms of drugs
- account for the mechanisms at the molecular level, and account for the drug development and clinical trial
- account for the mechanisms at the molecular level, and account for the effects, applications and side effects of drugs affecting the cardiovascular system, diuretics and the blood system
- account for the mechanisms at the molecular level, and account for the effects, applications and side effects of drugs affecting the respiratory system
- formulate hypotheses based on analysis of experimental data, plan experiments and critically assess scientific papers and apply experimental skills

3 Course Content

This course comprises theoretical and experimental aspects of the pharmacology of the organ systems with specific emphasis on pharmacokinetics, pharmacodynamics and mechanisms of action. Differences between the sexes will be illuminated.

4 Forms of Teaching

The teaching comprises lectures and laboratory sessions.

Depending on the study period, the language of tuition may be Swedish or English. Even if the teaching is conducted in Swedish, some English may still occur.

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 examination¹</td>
<td>4.5 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>Individual assignments</td>
<td>1.5 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

Prerequisite courses for this course are: attended BM523G-Pathophysiology G2F and passed BM333G-Human Anatomy and Physiology G1F (or the equiva-
7 Subject, Main Field of Study and Disciplinary Domain

The course forms a part of the academic subject area of Biomedicine. The course is a part of the main field of study in Biomedicine 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 Health on 19 December 2017. This course syllabus was approved by the Curriculum Committee for Health on 28 March 2018. It is valid from 1 July 2018 and replaces the course syllabus approved 19 December 2017.

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.

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


Scientific articles and other relevant literature may be added.

Latest edition of the course literature should be used.