1 Name and Scope of the Study Programme
The programme is provided by the University of Skövde and is named Biomedicine - Study Programme. It comprises 180 credits.

2 General Objectives
Courses and study programmes on the basic level shall develop:

- the ability of students to make independent and critical assessments,
- the ability of students to identify, formulate and solve problems autonomously, and
- the preparedness of students to deal with changes in working life.

In addition to knowledge and skills in their field of study, students shall develop the ability to:

- gather and interpret information at a scholarly level,
- stay abreast of the development of knowledge, and
- communicate their knowledge to others, including those who lack specialist knowledge in the field.

(Objectives for courses and study programmes on the basic level, The Higher Education Act)

3 Programme Objectives
The major field of study is Biomedicine.

Objectives of the Bachelor's degree in Higher Education are

Knowledge and understanding
For a Bachelor’s Degree, the student should be able to
- demonstrate knowledge and understanding in the major subject area including knowledge of the scientific basis, methodologies in the field, specialization within a sub-area and understanding of current research directions.

Skills and Abilities
For Bachelor’s Degree, the student should be able to
- demonstrate the ability to search, evaluate and critically interpret relevant information in a study case and to critically discuss relevant phenomena, issues and situations,
- demonstrate the ability to identify, formulate and solve problems and to perform tasks within specified time limits,
- demonstrate the ability to orally and in writing explain and discuss information, problems and solutions in dialogue with different groups, and
- demonstrate the skills required to independently work within the educational field.

Critical judgment and approach
For Bachelor’s Degree, the student should be able to
- demonstrate skills in the major field of study, make evaluations with respect to relevant scientific, social and ethical aspects,
demonstrate an understanding of the role of knowledge in society and people’s responsibility for application of knowledge, and demonstrate the ability to identify their individual needs for further knowledge and developing their skills.

Local objectives for the programme at the University of Skövde
The student should after completing the programme show

- good knowledge in Biomedicine and related topics, perspectives of Biomedicine’s historical development and scientific basis,
- knowledge of the structure and function of the tissues and organ systems that build up the human body and relating these knowledge to the molecular and genetic mechanisms,
- knowledge of scientific methods, experiments and evaluations that are used to analyze and identify biomedical issues,
- ability to process, analyze and present basic biomedical data from different types of experiments and assessments,
- ability to analyze and present issues regarding various disease conditions in humans, taking into consideration ethnicity and gender perspective, and
- ability to discuss and analyse different aspects of ethical and legal issues in the field of bioscience.

4 Programme Content
The education programme is based on the academic Biomedicine subject area, and starts with instructions at basic level of case studies in bioscience, chemistry and cell biology, to provide fundamental knowledge in the subject area. The first year ends with a course in human physiology, in which knowledge of chemistry and biology are integrated with knowledge on the human body’s structure and function at the level of organs and organism.

The programme’s second and third years provide specialization in traditional biomedical subjects, including courses that offer the latest theoretical developments and modern methodologies in the biomedical field. The student has the opportunity to profile their individual training within Biomedicine by participating in student exchange schemes with our partner higher education organizations. The programme ends with a thesis of 30 ECTS credits, during which the acquired knowledge though the study programme is used to independently solve a research problem of academic character within Biomedicine.

The following courses are included in the programme

Introduction to Bioinformatics G1N, 7.5 credits
Case Studies in Biomedicine G1N, 7.5 credits
Cell Biology G1N, 7.5 credits
Genetics G1N, 7.5 credits
Basic Chemistry G1N, 15 credits
Microbiology G1N, 7.5 credits
Project in Applied Bioinformatics G1F, 7.5 credits
Biochemistry G1F, 7.5 credits
Cell Signalling G1F, 7.5 credits
Human Anatomy and Physiology G1F, 15 credits
Human Genetics G1F, 7.5 credits
Immunology G1F, 7.5 credits
Method and Design in Life Science G1F, 7.5 credits
Pharmacology I G2F, 7.5 credits
Pharmacology II G2F, 7.5 credits
Pathophysiology G2F, 7.5 credits
Stem Cell Biology G2F, 7.5 credits
Bachelor Project in Biomedicine G2E, 30 credits

Elective courses
The student must choose one of these courses:

Tumor Biology G1F, 7.5 credits
or
Infection Biology G1F, 7.5 credits

5 Admission Requirements
General requirements are: Swedish secondary school courses: Biology B, Chemistry B, Mathematics D and English B. Alternatively international courses: Biology 2, Chemistry 2, Mathematics 3c and English 6. The corresponding English proficiency can normally be shown by an internationally recognized language tests, such as IELTS or TOEFL (or equivalent).

The above admission requirements apply for admission to the programme. For further studies within the programme, the admission requirements for each course must be complied with. These admission requirements are specified in each separate course syllabus.
6 Degree
Students who complete the program with at least a pass grade meet the general requirements for obtaining a Degree of Bachelor of Science with a major in Biomedicine.

Degrees are awarded after application. Information about how to submit an application can be found on the University's website.

7 Approval of Study Programme and Programme Syllabus
The study programme was approved by the University governing board at the University of Skövde on 13 December 2001. This programme syllabus was approved by the Curriculum Committee for Health on 23 May 2018. It is valid from the autumn semester of 2018 and replaces the programme syllabus approved on 28 March 2018.

8 Changes to the Programme Syllabus
The programme studies are carried out in accordance with the current programme syllabus in effect at the time when the studies were initiated, provided that the structure of the programme is followed and that no leave of studies has been granted.

In the event of continued studies after a period of approved leave of studies, the students is to follow the programme syllabus in effect the term that the student resumes his/her studies. If substantial changes to the programme syllabus have been made, the student may contact a student and career counsellor in order to set up an individual study plan.

Reservations are made for the fact that the programme syllabus and its courses are subject to change, within the framework of the objectives of the programme.

9 Additional Information
The teaching is conducted in English.

Further information about the study programme will be available on the University’s web pages prior to a programme start.

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

During the programme, as well as after its completion, there are follow-ups. The main purpose of these follow-ups is to contribute to improvements of the programme. The students’ experiences and views constitute one of the criteria for the follow-up and are gathered by means of programme evaluations. The students will be informed of the results of the follow-up and any decisions regarding actions that are to be taken.