TOTAL Bachelor

1.-6.

BSc ETH HST

Curriculum with Exams and **Credit Points**

for Entries Autumn 2017

(Study Regulations 2017-0)

min. 180

| Sep-Dec 2. Feb-May 3. Sep-Dec 4. | Demonstration Week Health Sciences and Technology Organic Chemistry I Mathematics I Introduction to Health Sciences and Technology I Molecular Genetics and Cell Biology General Chemistry Foundations of Computer Science Infection and Immunology Biochemistry Statistics I Biomechanics I Organic Chemistry II Mathematics II Introduction to Health Sciences and Technology II Lab Chemistry Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology Product Design in Medical Engineering | Exa I+ I+ I+ | 4/36 2/36 2/36 2/36 2/36 2/36 4/36 6/36 7/36 5/36 | -semester courses Comprehensive Exam | | 52 |
|--|--|---------------------------------|--|---------------------------------------|---------|--------|
| Sep-Dec 2. Feb-May 3. Sep-Dec 4. Feb- | Mathematics I Introduction to Health Sciences and Technology I Molecular Genetics and Cell Biology General Chemistry Foundations of Computer Science Infection and Immunology Biochemistry Statistics I Biomechanics I Organic Chemistry II Mathematics II Introduction to Health Sciences and Technology II Lab Chemistry Lab Introduction to Health Sciences and Technology | + + | 4/36 2/36 2/36 2/36 2/36 2/36 4/36 6/36 7/36 | | | 52 |
| 2. Feb-May 3. Sep-Dec 4. | Introduction to Health Sciences and Technology I Molecular Genetics and Cell Biology General Chemistry Foundations of Computer Science Infection and Immunology Biochemistry Statistics I Biomechanics I Organic Chemistry II Mathematics II Introduction to Health Sciences and Technology II Lab Chemistry Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology | + + | 4/36 2/36 2/36 2/36 2/36 2/36 4/36 6/36 7/36 | | | 52 |
| 2. Feb- May 3. Sep- Dec 4. Feb- | Molecular Genetics and Cell Biology General Chemistry Foundations of Computer Science Infection and Immunology Biochemistry Statistics I Biomechanics I Organic Chemistry II Mathematics II Introduction to Health Sciences and Technology II Lab Chemistry Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology | I+II | 2/36 2/36 2/36 2/36 2/36 4/36 6/36 7/36 | Comprehensive Exam | | 52 |
| 2. Feb-May 3. Sep-Dec 4. Feb- | General Chemistry Foundations of Computer Science Infection and Immunology Biochemistry Statistics I Biomechanics I Organic Chemistry II Mathematics II Introduction to Health Sciences and Technology II Lab Chemistry Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology | I+II | 2/36 2/36 2/36 2/36 2/36 4/36 6/36 7/36 | Comprehensive Exam | | 52 |
| 2. Feb-May 3. Sep-Dec 4. Feb- | Foundations of Computer Science Infection and Immunology Biochemistry Statistics I Biomechanics I Organic Chemistry II Mathematics II Introduction to Health Sciences and Technology II Lab Chemistry Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology | I+II | 2/36 2/36 2/36 2/36 4/36 6/36 7/36 | Comprehensive Exam | | 52 |
| 2. Feb-May 3. Sep-Dec 4. Feb- | Infection and Immunology Biochemistry Statistics I Biomechanics I Organic Chemistry II Mathematics II Introduction to Health Sciences and Technology II Lab Chemistry Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology | I+II | 2/36 2/36 2/36 4/36 6/36 7/36 | Comprehensive Exam | , | 52 |
| 3. Sep-Dec 4. Feb- | Biochemistry Statistics I Biomechanics I Organic Chemistry II Mathematics II Introduction to Health Sciences and Technology II Lab Chemistry Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology | I+II | 2/36 2/36 4/36 6/36 7/36 | Comprehensive Exam | | 52 |
| 3. Sep-Dec 4. Feb- | Biochemistry Statistics I Biomechanics I Organic Chemistry II Mathematics II Introduction to Health Sciences and Technology II Lab Chemistry Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology | I+II | 2/36 2/36 4/36 6/36 7/36 | Comprehensive Exam | | 52 |
| 3. Sep-Dec 4. Feb- | Statistics I Biomechanics I Organic Chemistry II Mathematics II Introduction to Health Sciences and Technology II Lab Chemistry Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology | I+II | 2/36 4/36 6/36 7/36 | | | |
| 3. Sep-Dec 4. Feb- | Biomechanics I Organic Chemistry II Mathematics II Introduction to Health Sciences and Technology II Lab Chemistry Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology | I+II | 4/36 6/36 7/36 | | | |
| 3. Sep- Dec | Organic Chemistry II Mathematics II Introduction to Health Sciences and Technology II Lab Chemistry Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology | I+II | 6/36 7/36 | | | |
| 3. Sep-Dec 4. Feb- | Mathematics II Introduction to Health Sciences and Technology II Lab Chemistry Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology | I+II | 7/36 | | | |
| 3. Sep-Dec 4. Feb- | Introduction to Health Sciences and Technology II Lab Chemistry Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology | | • | | | |
| 3. Sep-Dec 4. Feb- | Lab Chemistry Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology | 1+11 | 5/30 | | | |
| 3. Sep-Dec 4. Feb- | Lab Introduction to Health Sciences and Technology Fundamentals of Biology II: Cell Biology | | | | | _ |
| Sep- Dec 4. | | | | | | 2 2 |
| Sep- Dec 4. | | | 56% | | | |
| Sep- Dec 4. | r roudet Design in Wedical Engineering | | | Exam Block 1 | > | 9 |
| Dec 4. | Mathematica III | | 44% | | < | 9 |
| 4. Feb- | Mathematics III | | 27% | Exam Block 2 | | |
| 4. Feb- | Statistics II | | 27% | | | 11 |
| 4. Feb- | Anatomy and Physiology I | | 46% | | | |
| 4. Feb- | Physics I | Fxa | ms in Exar | m Block 3 | | |
| Feb- | Neuroanatomy and Neurophysiology / | - LAG | III EAUI | | | |
| Feb- | Advanced Physiology and Pathophysiology NN+ | APP | 13+25% | | | |
| Feb- | Histology | | 13% | Exam Block 3 | | 16 |
| I - | Physics II | 1+11 | 50% | | | |
| | Anatomy and Physiology II | | 38% | | | |
| | Biomechanics II | | 31% | Exam Block 4 | | 13 |
| | Biomedical Interfaces | | 31% | | | |
| | Lab Physiology | | /- | | | 2 |
| | Lab Molecular Biology | | | | | 2 |
| | TOTAL 5 | | | | •. | 40 |
| | TOTAL Focus Courses | | | | min. | 48 |
| | Focus Area Movement Sciences and Sport | D) (5 | . 5/ | min | . 8 | |
| Sep- | Core Electives: Movement and Sport Biomechanics (4C | , . | • | · , , | , | |
| Dec | Neural Control of Movement (4CP) / Exc | ercise Scie | ences (4CP |) / Funct. Anatomy (3CP |) | |
| & | Focus Area Medical Technology | | | min | . 8 | |
| Feb- | Core Electives: Biocomp. Materials (4CP) / Biomed. Eng | . (4CP) / I | Mechanics | | | |
| May | Imaging and Computing in Medicine (40 | | | | (.5. / | |
| | Focus Area Molecular Health Sciences | | | min | . 6 | |
| | Core Electives: Concepts in Modern Genetics (6CP) / Im | munolog | v I (3CP) | 1/1111 | | |
| | Molecular Disease Mechanisms (6CP)/ | _ | | Immunology II (3CP) | | |
| | Wiolectalar Disease Weetlanishis (OCF) | טוטוטן | 64 (OCI)/ | initialiology if (3Cl) | | |
| | Focus Area Neurosciences | | | min | . 6 | |
| | Core Electives: Neural Systems of the (3CP) / Develop | ment of t | he NS (3CI | P) | | |
| | Clinical Neuroscience (3CP) / Methods a | nd Mode | els (3CP) , | / Translational NS (3CP) | | |
| 16. | | re Flectiv | res 5 /6 So | em) | min. | 16 |
| | Flectives (thereof at may 6 CD Sports) (incl. additional Co | | | | min. | 6 |
| | Electives (thereof at max. 6 CP Sports) (incl. additional Co Compulsory Elective GESS Science in Perspective (Human | 11005, 300 | iai ailu PO | HILLAL SCIENCES | | |