

Master Health Science and Technology - Major Medical Technology Electives

(Spring Semester 2024 – tentative)

Hour	Mo	Tu	We	Th	Mand.	Fr	Hour										
Electives		Electives		Electives		Electives											
08-09	Immunology II (H)	Rehabilitation Engineering I: Motor Functions (Z)	Praktikum Biomechanik (Z)	Colloquium in Biomechanics (Z)	Applied Human Research Project Management (Online) <i>Doesn't take place!</i>	Principles in Tissue Engineering (H)	08-09										
09-10							09-10										
10-11	Clinical Challenges in Musculoskeletal Disorders (S)	Nanorobotics (Z)	Transfer of Technologies into Neurorehab. (Z)	Molecular Imaging Basic Principles & Biomedical Applications (Z)	Bone Biology & Consequences for Human Health (Z) <i>Doesn't take place!</i>	Development Strategies for Medical Implants (Z)	10-11										
11-12							11-12										
12-13						Nanomaterials for Health (Z)	Biofluid-dynamics (Z)										
13-14							12-13										
14-15	Mobile Health and Activity Monitoring (Z)	Finite Element Analysis in Biomedical Engineering (Z)	Imaging & Computing in Medicine (Z)	Medical Image Analysis (Z)	Bayesian Data Analysis and Models of Behavior (UZH)	Scientific Writing, Reporting & Communication (Z)	Human Factors II (Z)	Bio-mechatronics (Z)	Praktikum Biomechanik (Z)	Practical Methods in Biofabrication (H)	Magnetic Resonance Imaging in Medicine (Z)	Development Strategies for Medical Implants (Z)	Skeletal Repair (Z)	Climate, Ethics and Human Health (H)	Bioinformatic Approaches to Regulatory Genomics and Epigenomics (Y)	Physics in Medical Research: From Humans to Cells (H)	14-15
15-16																	15-16
16-17	Cellular Biochemistry (Part II) (H)	MaP - Engineering with Living Materials (Z)	Nanoscale Molecular Imaging (H)	MaP - Additive Manufacturing (Z) <i>Doesn't take place!</i>	Biomechatronics (Z)	Praktikum Biomechanik (Z)	Orthopaedic Biomechanics (Z)	Mechanobiology: Implications for Development, Regeneration & Tissue Engineering (Z)	Nanorobotics (Z)	Physics in Medical Research: From Humans to Cells (H)	16-17						
17-18											17-18						
18-19											18-19						
19-20											19-20						

Bemerkung: Z= ETH Center, H= ETH Hönggerberg, Y= UZH Irchel, S=Schulthess Clinic, O=Online

Mand. 376-0302-01 GCP Basic Course (Modul 1 und 2) / Course selection <http://www.ctc-zkf.usz.ch/forschung/gcp-kurse/seiten/gcp-basiskurse.aspx>

Electives:

SEM I - Introduction to SEM, March 18 - 22, 2024 (H)

TEM I - Introduction to TEM, May 27 - 31, 2024 (H)

Bayesian Data Analysis and Models of Behavior - for binding information see course catalogue UZH