

Core Course

Recommended Elective Course

Biology Course

Monday						
08:00			Physiology and Anatomy for Biomedical Engineers II			
09:00						
10:00	Soft and Biohybrid Robotics	Clinical Challenges in Musculoskeletal Disorders				
11:00						
12:00						
13:00						
14:00		Mobile Health and Activity Monitoring	Finite Element Analysis in Biomedical Engineering		Computer Simulations of Sensory Systems *	Biological Methods for Engineers
15:00						
16:00	Nanoscale Molecular Imaging			MaP Distinguished Lecture Series on Soft Robotics		
17:00						
18:00						

Tuesday						
08:00	Experimental Mechanics			Rehabilitation Engineering I: Motor Functions		
09:00						
10:00		Nanorobotics			Statistics for Experimental Research *	Medical Technology Innovation for Underrepresented Groups
11:00						
12:00						
13:00			Soft and Biohybrid Robotics			
14:00	Medical Image Analysis	Introduction to Machine Learning				
15:00						
16:00				Mechanics of Soft Materials and Tissues		
17:00						
18:00						

Wednesday						
08:00		Cell and Molecular Biology for Engineers	Colloquium in Biomechanics			
09:00						
10:00	Bone Biology and Consequences for Human Health *					
11:00						
12:00						
13:00						
14:00		Introduction to Machine Learning				
15:00						
16:00			Orthopaedic Biomechanics			
17:00						
18:00						

Thursday						
08:00						
09:00						
10:00		Measuring on the Nanometer Scale	Quantitative Big Imaging: From Images to Statistics	Digital Health in Practice *	Development Strategies for Medical Implants	
11:00						
12:00						
13:00					Development Strategies for Medical Implants	
14:00						
15:00			Cell and Molecular Biology for Engineers	Skeletal Repair		
16:00	Mechanobiology: Implications for Development, Regeneration and Tissue Engineering	Nanorobotics				
17:00						
18:00						

Friday						
08:00				Principles in Tissue Engineering	Rehabilitation Engineering I: Motor Functions	
09:00						
10:00						
11:00			Biofluidynamics			
12:00						
13:00						
14:00		Introduction to Machine Learning		Physics in Medical Research: From Humans to Cells		
15:00						
16:00						
17:00						
18:00						

June 2024: Sports Biomechanics

Various times: [Anwendungsnahes Programmieren mit Python](#)

\*: not offered in FS24

Note: This is an informal help for students. The official courses can be seen on the Course Catalogue of ETH ([www.vvz.ethz.ch](http://www.vvz.ethz.ch))