

## Medizinische Fakultät

### Promotionsfach - Biomedizinische Technik

Biomedical engineering, the application of engineering principles to the medical field is a growing interdisciplinary area of the present century. Thanks to increasing life expectancy, its potential is by far above average. In Switzerland, medical technology is a particularly well-established and well-embedded industry sector driving the international standards. Swiss companies are among the global players in key business areas such as dental implants and hearing aids. Small- to medium-sized enterprises, which occupy market niches, reap extraordinary rewards. Therefore, an increasing demand for well-educated and motivated engineers with basic medical knowledge is guaranteed.

Studienfachberatung:

PhD Program Coordinator: \*Dr. Gabriela Oser, Department of Biomedical Engineering\* Mail: gabriela.oser@unibas.ch, <http://dbe.unibas.ch>,\* Anmeldung siehe: \* <https://medizin.unibas.ch/de/karriere/doctoral-degrees/phd-dr-sc-med/>

### Doktorat Biomedizinische Technik: Empfehlungen

|          |  |   |   |
|----------|--|---|---|
| 55664-01 | Blockkurs: Rapid prototyping for measurement systems, automation, control, artificial intelligence, and virtual reality ( 2 KP ) | Mo 09:00-17:00<br>Gewerbstrasse 14,<br>Vorlesungsraum DBE<br>14.03.002<br>Block<br>14.02.2022 - 18.02.2022<br>1 week, each day 9:00 -<br>17:00<br>Gewerbstrasse 14,<br>Allschwil  | Nicolas Gerig<br><b>Georg Rauter</b>  |
| 62637-01 | Kurs: Innovation in Cranio-Maxillofacial Surgery – Current Topics and Research ( 1 KP )  | Mo 17:00-18:00<br>wöchentlich<br>Unispital Basel, Klinikum<br>1, 1. Stock, Bibliothek<br>WHC / MKG-Chirurgie<br>(findet jeden Montag<br>auch während der<br>Semesterferien statt) | Bilal Msallem<br><b>Florian Markus Thieringer</b>   |
| 62635-01 | Kurs: Klinische Orthopaedie und Traumatologie ( 1 KP )   | Mi 08:15-10:00<br>wöchentlich<br>Sitzungssaal 1+2 im ZLF  | Reinald G.H. Brunner<br>Henrik Eckardt<br><b>Christian Egloff</b><br>Alexandre Olivier Kämpfen<br>Arne Mehrkens<br>Marc Andreas Müller<br>Annegret Mündermann<br>Karl Stoffel |
| 62636-01 | Seminar: Escape the Box: Computer Vision ( 1 KP )  | Mo 11:15-12:00<br>Gewerbstrasse 14,<br>Vorlesungsraum DBE<br>14.03.002<br>wöchentlich   | <b>Philippe Claude Cattin</b><br>Christoph Jud<br>Robin Sandkühler  |
| 62634-01 | Seminar: Navigation, Robotics and Lasers in Surgery ( 1 KP )   |   | <b>Georg Rauter</b>   |
| 26940-01 | Seminar: Regenerative medicine Journal Club ( 3 KP Jahreskurs )  | Do 13:30-14:30<br>14-täglich<br>ZLF, DBM Seminarraum<br>Hebelstrasse 20, 4031<br>Basel  | <b>Ivan Martin</b>  |
| 26941-01 | Seminar: Tissue Engineering Reports ( 3 KP Jahreskurs )  | Di 17:00-18:00<br>wöchentlich<br>Klinikum I, Raum<br>Knotenpunkt.   | <b>Ivan Martin</b>  |
| 59975-01 | Seminar mit Übung: Open science: principles and practices for better research ( 1 KP )   | Do 16:30-17:30<br>wöchentlich<br>online   | Tugba Akinci D'Antonoli<br>Xeni Deligianni<br><b>Francesco Santini</b><br>Claudia Weidensteiner   |