



MMPH 6124 -- Advancements in Biomedical Engineering

Course Conducted on Every **Wednesday** from September 2026 to December 2026

Time & date	Topic	Lecturer
4:00 pm -5:20 pm September 16, 2026	Course briefing Modelling in medicine: from rule-base to artificial intelligence	Prof. Sien Lin Prof. Grace Zhang
4:00 pm -5:20 pm September 23, 2026	Electrical signals in human body	Dr. Tianruo Guo
4:00 pm -5:20 pm September 30, 2026	Knowledge graph and large language models and their applications for medicine	Prof. Honghan Wu
4:00 pm -5:20 pm October 7, 2026	Genetic engineering	Prof. Alan Wong
4:00 pm -5:20 pm October 14, 2026	Regulation considerations in translational medicine	Dr. Delon Hsueh
4:00 pm -5:20 pm October 21, 2026	Biomedical instrumentation, measurement, and design	Dr. Sloan Kulper
4:00 pm -5:20 pm October 28, 2026	Medical imaging	Prof. Wei-Ning Lee
4:00 pm -5:20 pm November 4, 2026	Nanotechnologies and nanomaterials in bioengineering	Prof. Min Wang
4:00 pm -5:20 pm November 11, 2026	Medical robotics and human machine interface	Prof. Yong HU
4:00 pm -5:20 pm November 18, 2026	Advanced optical bioimaging technologies	Prof Kevin Tsia
4:00 pm -5:20 pm November 25, 2026	Mechanobiology and mechanomedicine	Prof. Sien Lin
4:00 pm -5:20 pm December 2, 2026	Biophysical strategies for tissue regeneration and infection control	Dr. Yizhou Zhu
4:00 pm -5:20 pm December 9, 2026	Introduction to foundation models with biomedical applications.	Prof. Cheng Chen
4:00 pm -5:20 pm January 13, 2027	Mini-project presentation	Prof. Sien Lin Prof. Grace Zhang