Clinical Engineering Minor

The Clinical Engineering Minor provides the knowledge, skills and lab experience needed for a clinical engineer working in a medical device company or hospital/clinical setting. Students are introduced to hospital instrumentation, facilities, project management, and regulatory affairs for device approval. The minor provides students with a foundation in necessary skills and topics that are in demand by biomedical device companies, including startups, and hospitals around the country.

Students majoring in biomedical engineering can count no more than 8 hours from their major towards this minor. Students may not receive both the clinical engineering and regulatory affairs minors.

Program Requirements

Code	Title	Credit Hours
Required Courses		
CPB 448	Hospital Rotation	3
CPB 428	Engineering Principles in Medical Device Design	3
or CPB 445	Hospital Instrumentation	
CPB 402	Introduction to Clinical Engineering	3
CPB 328	Bioinstrumentation	3
or ECE 411	Sensors and Data Fusion with Robotics Applications	
or ECE 414	Design and Modeling of Robotic Systems	
or ECE 425	Digital Signal Processing	
or ECE 426	Biomedical Signal Analysis and Machine Learning	
or CSE 466	Bioinformatics Computing Skills	
or CSE 488	Image Processing & Computer Vision	
or CSE 432	Machine Learning	
CPB 452	Introduction to FDA Regulations and Medical Device Laws	3
or CPB 453	Medical Device Development and Regulatory Considerations	
CPB 435	Clinical Engineering Laboratory	2
Select one from the following:		**3**
MGT 291	Introduction to Management & Leadership	
MGT 295	Introduction to Operations and Supply Chain Management	
EGM 411	Leading and Managing Projects	
Total Credit Hours		**20**