

Translation of Biomedical Innovation to Clinical Practice

This non-degree graduate certificate will provide both non-engineering and engineering graduate students with opportunities to gain knowledge, skills, and competencies required to translate basic science discoveries and new biomedical technologies into products in the clinical setting. Core courses will allow individuals to learn how to pursue a structured approach to accomplishing clinical translation of biomedical innovations along with knowledge pertaining to entrepreneurial, commercialization and regulatory pathways. Technical electives are intended to familiarize individuals with cutting-edge technologies that form the basis for biomedical products.

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Requirements		Hours
BMEM 601	Biomedical Innovation and Clinical Translation I	3
Select a Technical Elective from the list below:		3
BMEM 610	Design and Regulation of Stem Cell and Tissue Engineered Products	
BMEM 611	Biomedical Device Design	
BMEM 612	Lab-on-a-chip and Point-of-Care Diagnostic Technologies	
BMEM 602	Biomedical Innovation and Clinical Translation II	3
Select a Technical Elective from the list below:		3
BMEM 613	Implantable Devices and Biomaterials	
BMEM 614	Wearable Device Technologies	
BMEM 615	Design and Use of Tissue Chips, Organ Chips & Microphysiological Systems	
BMEM 603	Regulatory, Legal and Ethical Perspectives	3
Total Hours		15