BIOENGINEERING, POST-BACCALAUREATE CERTIFICATE (P.B.C.)

12 credits required

All Graduate Certificate in Engineering Programs consist of 4 courses/12 credits. All students are expected to complete a preliminary course plan for their intended degree program. Degree planning worksheets can be found here: https://mage.umd.edu/degree-planning-sheets (https://mage.umd.edu/degree-planning-sheets/)

Course	Title	Credits
Core Requirements		
Select two of the following:		6
BIOE651	Applied Mathematics in Bioengineering	
BIOE654	Physiology for Bioengineers	
BIOE658	Special Topics in Bioengineering (M.Eng.) (BIOE658E: Biomedical Device Developments)	
BIOE658	Special Topics in Bioengineering (M.Eng.) (BIOE658J: Introduction to Programming and Data Analysis using Python)	
BIOE658	Special Topics in Bioengineering (M.Eng.) (BIOE658R: Regulatory Affairs in Medical Product Development)	
Pre-Approved Electives:		
Select two of the following:		6
BIOE658	Special Topics in Bioengineering (M.Eng.) (BIOE658B: Introduction to Medical Image Analysis)	
BIOE658	Special Topics in Bioengineering (M.Eng.) (BIOE658D: Application of Biomaterials)	
BIOE658	Special Topics in Bioengineering (M.Eng.) (BIOE658G: Genome Editing and Synthetic Biology)	
BIOE658	Special Topics in Bioengineering (M.Eng.) (BIOE658Y: Applications of Tissue Engineering)	
BIOE658	Special Topics in Bioengineering (M.Eng.) (BIOE658W: Biosensor Techniques, Instrumentation, and Applications)	
BIOE658	Special Topics in Bioengineering (M.Eng.) (BIOE658F: Applications of Bioinformatics)	
Total Credits		**12**