

CERTIFICATE IN GLOBAL BIOMEDICAL ENGINEERING

This certificate draws together themes relevant to the study of global biomedical engineering, from cross-cultural competence, international communication, issues facing developing countries, regulatory affairs and quality standards in the U.S. and abroad.

Learning Objectives

Upon successful completion, students will be able to:

1. Discuss cross-cultural competence in the biomedical engineering field, considering social, political, and economic differences in areas such as medical device design, regulation, technology transfer, and ethics.
2. Participate in globally focused experience(s) or projects related to the field of biomedical engineering.
3. Describe global, economic, environmental, and societal impacts of engineering solutions.

Requirements Effective Fall 2023

Additional coursework may be required due to prerequisites.

Code	Title	Credits
Required Course:		
BIOM 304	Global Challenges and Collaborations in BME	3
Required International Experience (minimum 1 credit):		1
BIOM 350A	Study Abroad–Ecuador: Prosthetics	
BIOM 495	Independent Study ¹	
Select a minimum of 5 credits from the following in order to bring the program total credits to 9:		5
ANTH 416	Gender, Culture, and Health	
GES 450	Global Sustainability and Health	
GR 305	Geography of Global Health	
HES 345	Population Health and Disease Prevention	
LSPA 340	Spanish for Animal Health and Care Fields	
LSPA 346	Spanish for Health Care	
SPCM 434	Intercultural Communication	
Program Total Credits:		9

¹ Independent Study must be approved with a Global BME focus.