

Biomedical Engineering (PhD)

Degree Requirements

Code	Title	Hours
Biology/Medicine: A two semester sequence covering core aspects of relevant biology and physiology		6
BME 790	Advanced Special Topics in Biomedical Engineering (Grad Biochemistry)	
PHY 503	General Physiology I	
or PHY 504	General Physiology II	
Graduate-level statistics		3
ST 511	Statistical Methods For Researchers I	
or ST 515	Experimental Statistics for Engineers I	
Graduate-level mathematics		3
MA 501	Advanced Mathematics for Engineers and Scientists I	
or MA 502	Advanced Mathematics for Engineers and Scientists II	
Engineering		6
Select 510-590-level or 700-level BME/BMME courses or other 500/700-level courses from the College of Engineering approved in conjunction with the program advisor and director of graduate programs		
Scientific/Technical Electives		9
Select a minimum of three 500-level or 700-level courses from College of Engineering, College of Textiles, College of Sciences, or other programs as approved in conjunction with the program advisor and director of graduate programs		
Mentored Teaching Experience		14
BME 885	Doctoral Supervised Teaching	
BME 590	Special Topics in Biomedical Engineering (Professional Development for Biomedical Engineers)	
BME 802	Advanced Seminar in Biomedical Engineering (8 semesters of 1 credit each)	
Dissertation Research		31
Students should take BME 893 before passing their preliminary exam and take BME 895 after passing their preliminary exam.		
BME 893	Doctoral Supervised Research	
BME 895	Doctoral Dissertation Research	
Total Hours		72

Faculty

Department Chair

Paul Dayton

Associate Chairs

Lianne Cartee, *Associate Chair for Education*

Shawn Gomez, *Associate Chair for Research*

Directors

Lianne Cartee, *Director of Undergraduate Studies*

Matthew Fisher, *Director of Graduate Studies*

Associate Director

Naji Hussein, *Associate Director of Undergraduate Studies*

Distinguished Professors

Lianne Cartee, *Alumni Distinguished Undergraduate Professor*

Paul Dayton, *William R. Kenan Jr. Distinguished Professor*

He (Helen) Huang, *Jackson Family Distinguished Professor*

H. Troy Nagle

Roger Narayan

Koji Sode, *William R. Kenan Jr. Distinguished Professor*

Professors

Lianne Cartee

Paul A. Dayton

Caterina M. Gallippi

Shawn Gomez

Leaf Huang

H. Troy Nagle Jr.

Weili Lin

J. Michael Ramsey

George (Rick) Stouffer

Associate Professors

Ashley Brown

Yevgeny Brudno

Jacqueline Cole

Michael Daniele

Bob Dennis

Kenneth Donnelly

Oleg Favorov

Matthew Fisher

Jason Franz

Donald Freytes

Michael Gamcsik

David Hill

Devin Hubbard

Naji Hussein

Derek Kamper

David Lalush

Jeffrey Macdonald

Scott Magness

Matthew Penny

Gianmarco Pinton

Nitin Sharma

Mark Tommerdahl

Anka Veleva

Bruce Wiggin

David Zaharoff

Ross Petrella

William Polacheck

Imran Rizvi

Francisco Santibanez

Sarah Shelton

James Tsuruta

Lecturers

Sidhartha Jandhyala

Nick Jardine

Assistant Professors

Amy Adkins

Pritha Agarwalla

Wen Yih Aw

Rahima Benhabbour

Joseph Burclaff

Melissa Caughey

Silvia Ceballos

Brian Diekman

Alon Greenbaum

Michael Jay

Kennita Johnson

Jinwook Kim

Wesley Legant

Ming Liu

Virginie Papadopoulou