## Biomedical Engineering (MS): MedTech Innovation and Entrepreneurship Concentration

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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<tbody>
<tr>
<td>Core Courses</td>
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<tr>
<td>BME 501</td>
<td>MedTech Innovation and Entrepreneurship I - Needs Discovery</td>
<td>24</td>
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<tr>
<td>BME 502</td>
<td>MedTech Innovation and Entrepreneurship II - Design and Regulation</td>
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<td>BME 503</td>
<td>MedTech Innovation and Entrepreneurship III - Product Development</td>
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<td>BME 504</td>
<td>Medical Device Materials and Manufacturing</td>
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<td>BEC 575</td>
<td>Global Regulatory Affairs for Medical Products</td>
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<tr>
<td>MBA 576</td>
<td>Technology Entrepreneurship and Commercialization I</td>
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<td>or MBA 848A &amp; MBA 848B at UNC-CH</td>
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<tr>
<td>MBA 577</td>
<td>Technology Entrepreneurship and Commercialization II</td>
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<tr>
<td>or MBA 848C &amp; MBA 848D at UNC-CH</td>
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**Internship/Entrepreneurship Elective**  

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Students can choose between BME 650, which requires completion of an internships with a medical technology company/consultancy, or 3 credit hours of MBA electives from the Poole College of Management at NC State or from the Kenan-Flagler Business School at UNC-Chapel Hill.

**Technical Elective Course**  

Select a minimum of three credit hours of 500-level or 700-level technical coursework from the following course prefixes: BME, CHE, CE, ECE, ISE, MSE, MAE, or NE as approved in conjunction with the program advisor.

**Total Hours**  

- Required MBA courses must be completed at either NC State or UNC-CH. Student must complete either MBA 576 and MBA 577 or MBA 848A, MBA 848B, MBA 848C and MBA 848D.
- Other graduate courses in applied or technical fields at NC State or UNC-Chapel Hill as approved in conjunction with the program advisor.

### 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 Husseini, 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

Assistant Professors
Amy Adkins
Pritha Agarwalla
Wen Yih Aw
Rahima Benhabbour
Joseph Burclaff
Melissa Caughey
Silvia Ceballos
Brian Diekman
Alon Greenbaum
Michael Jay
Kenhita Johnson
Jinwook Kim
Wesley Legant
Ming Liu
Virginie Papadopoulou
Ross Petrella
William Polacheck
Imran Rizvi
Francisco Santibanez
Sarah Shelton
James Tsuruta

Lecturers
Sidhartha Jandhyala
Nick Jardine