



Joint Department of Biomedical Engineering
The University of North Carolina at Chapel Hill and
North Carolina State University at Raleigh



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To: Administrative Boards of the College of Arts and Sciences and the General College

From: Nancy Allbritton, Chair, and Lianne Cartee, Director of Undergraduate Studies, Joint Department of Biomedical Engineering

Re: Curriculum changes for B.S. in Biomedical and Health Sciences Engineering

Date: October 17, 2016

Core Requirements

Old requirement:

Choose one of the following (take more than one and it counts as one of your BME electives):
BMME 341 Thermodynamics, BMME 455 BioFluid Mechanics, or BMME 475 Transport Processes.

New requirement:

Choose ONE of the following (additional courses taken count as a BME Specialty Elective):
BMME 341 Thermodynamics, BMME 455 BioFluid Mechanics, BMME 475 Transport Processes, BMME 405 Biomechanics of Movement, or BMME 505 Skeletal Biomechanics.

Changes (additions in green and deletions in red):

Choose one of the following (~~take more than one and it counts as one of your BME electives~~
additional courses taken count as a BME Specialty Elective): BMME 341 Thermodynamics,
BMME 455 BioFluid Mechanics, ~~or~~ BMME 475 Transport Processes, **BMME 405**
Biomechanics of Movement, or BMME 505 Skeletal Biomechanics.

Note: Course changes for BMME 405 and 505 are pending approval (November 2016 Curriculum Committee report)

Explanation: This requirement guarantees sufficient engineering content in the curriculum. The BME Undergraduate Affairs Committee approved the addition of two electives to further utilize faculty expertise.

Additional Requirements

Old requirement:

A choice of four biomedical specialty electives: 12

Any BMME course above 400

PHYS 401 Mechanics I

ENVR Fluid Dynamics

~~452/~~

~~GEOL~~

~~560/~~

~~MASC~~

~~560/ PHYS~~

~~660~~

New requirement:

A choice of four biomedical specialty electives: 12

Any BMME course above 400 excluding BMME 691H and BMME 692H

Changes (additions in green and deletions in red):

A choice of four biomedical specialty electives: 12

Any BMME course above 400 **excluding BMME 691H and BMME 692H**

~~PHYS 401~~ ~~Mechanics I~~

~~ENVR~~ ~~Fluid Dynamics~~

~~452/~~

~~GEOL~~

~~560/~~

~~MASC~~

~~560/ PHYS~~

~~660~~

Explanation: The deleted courses are no longer offered. Requirements to earn university honors should be in addition to the requirements for the degree.

University Requirement

Old Requirement:

- complete a minimum of 45 academic credit hours earned from UNC-Chapel Hill courses

New Requirement:

- complete a minimum of 45 academic credit hours earned from UNC-Chapel Hill or NC State courses

Changes (additions in green):

- complete a minimum of 45 academic credit hours earned from UNC-Chapel Hill **or NC State** courses

Explanation:

The Biomedical and Health Sciences Engineering program is a joint program between UNC-Chapel Hill and North Carolina State University. Students may take equivalent courses at either university.