



**THE OHIO STATE UNIVERSITY**  
COLLEGE OF ENGINEERING

# Biomedical Engineering Domain Lab

## BIOMEDE 3701

**Credit Hours:**

2.00 - 2.00

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**Course Levels:**

Undergraduate (1000-5000 level)

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**Course Components:**

Lecture  
Lab

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**Course Description:**

Laboratory course for Biomedical Engineering majors. Biomedical laboratory skills, as well as designing, performing and analyzing experiments, documentation, and technical communication skills are developed in this course.

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**Prerequisites and Co-requisites:**

Prereq: 2000, Stat 3450, and enrollment in BiomedE major; or permission of instructor.

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**Course Goals / Objectives:**

- Students will be able to integrate principles of a particular Domain to design and conduct experiments.(a)
  - Students will be able to analyze and interpret data to draw appropriate conclusions (6, b)
  - Students will be able to collaborate on a team to generate a lab notebook that meets documentation standards(3)
  - Students will be able to communicate lab experiments and findings through technical writing (3)
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**Course Topics:**

- Lab-based experiences in Bioimaging, Biotransport, Biomechanics, Biomaterials, Cell and Tissue Engineering, and Micro/nanotechnology
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**Designation:**

Required