Description: This course is an introduction to the fundamental concepts in biomedical engineering including biomechanics, biomaterials and tissue engineering, biological systems and imaging, and bioinformatics and computational biology. Each area will be covered in lectures by BME faculty members who specialize in that area. The lectures will follow a common theme. The theme for this year will be “artificial heart valve design.”

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Course web site: http://www.engineering.uiowa.edu/~bme030/

Required text:
There is no required text. Lecture notes will be prepared by the instructors and posted on the course web site. Students should check the web site regularly for notes on the upcoming lectures.

Pre-requisites:
002:010 Principles of Biology I
057:006 Engineering II
057:007 Statics

Grading:
Attendance 10%
Homework / Labs 10%
Technical Report 40%
Final Examination 40%

Schedule of Lectures:
Visit the course web site for the schedule of lectures and links to lecture notes.

Miscellaneous:
• For “Informal Procedure for Student Complaints Concerning Faculty Actions” visit:
  http://www.icaen.uiowa.edu/~bme080/supplementary_info/StudentComplaints.gif
• For “Regulations on Dealing with Academic Misconduct” visit:
  http://www.icaen.uiowa.edu/~bme080/supplementary_info/AcademicMisconductPolicy.htm