### DEPARTMENT OF BIOMEDICAL ENGINEERING

**2010 – 2012** Technical Area 2

**Cell and Biomolecular Engineering**

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### Technical Electives

#### Fall 2010

- **BME 221** Measurement and Instrumentation Lab
- **BME 343** Signals & Systems Analysis in BME
- **BME 365R** Engineering Physiology I
- **BME 353** Transport Phenomena in Living Systems
- **Technical Elective**

#### Spring 2011

- **BME 251** Biomedical Image, Signal and Transport Process
- **BME 348** Modeling of BME Systems
- **BME 365S** Engineering Physiology II
- **BME 352** Advanced Engineering Biomaterials
- **E 316K** Masterworks of Literature

#### Fall 2011

- **BME 370** Principles of Engineering Design
- **BME Sr. Elective**
- **BME Tech Elective**
- **BME 339** Biomedical Engineering
- **SO. SCI.** Social Science Elective from Approved List
- **GOV 310L** American Government

#### Spring 2012

- **BME 371** Biomedical Engineering Project
- **BME Sr. Elective**
- **Technical Elective**
- **His. Elect.** History Elective from Approved List
- **GOV 312L** Issues and Policies in American Government

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The following rules apply for technical electives:

* Six credit hours can be any combination of the following. Choose two:*

- Any BME Tech Elective (3 hours)
- Any Upper-division Engr (3 hrs)
- Any Upper-division Comp Sci (3 hours)
- Any Upper-division Physics (3 hours)
- Any Upper-division Math (3 hours)

** The remaining three credit hours must be in Biomedical Engineering. Choose one:**

- **BME 354** Molecular Sensors and Nano-devices for BME Application
- **BME 379** Tissue Engineering

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Revised: 5/24/2011