GENERAL CURRICULUM IN
BIOMEDICAL ENGINEERING

This is the default curriculum required for students who do not declare a concentration.

CE 207 Mechanics of Materials II 2-3
or EE 321 Electronics
ME 228 Engineering Design Communication 2

Approved Technical Electives 12
BMED 355 Electrical Engineering Concepts for Biomedical Engineering
BMED/CE/ME 404 Applied Finite Element Analysis
BMED 432 Micro/Nano System Design
BMED 434/ MATE 430 Micro/Nano Fabrication
BMED 435 Microfabrication Laboratory
BMED 436 Characterization of Micro/Nano Scale Structures
BMED 445 Biopotential Instrumentation
BMED 459 Senior Thesis
BMED 510 Principles of Tissue Engineering
BMED 515 Introduction to Biomedical Imaging
BMED 525 Skeletal Tissue Mechanics
BMED/MATE 530 Biomaterials
BMED 550 Current and Evolving Topics in Biomedical Engineering
IME 420 Simulation
IME 430 Quality Engineering
IME 435 Reliability for Design and Testing
IME 527 Design of Experiments
MATE 380 Thermodynamics and Physical Chemistry
MATE 401 Materials Characterization Techniques
MATE 410 Nanoscale Engineering
MATE 425 Corrosion Engineering
MATE/CHEM 446 Surface Chemistry of Materials
ME 305 Introduction to Mechatronics
ME 326 Intermediate Dynamics

Approved Support Electives 12
BIO 232 Human Anatomy and Physiology II
BIO 302 Human Genetics
BIO 303 Survey of Genetics
BIO 351 Principles of Genetics
BIO/CHEM 441 Bioinformatics Applications
BIO 452 Cell Biology
BUS 310 Introduction to Entrepreneurship
CHEM 312 Survey of Organic Chemistry
CHEM 313 Survey of Biochemistry and Biotechnology