

BME COURSE LISTS

APPROVED LIST OF BME ELECTIVES MAINTAINED BY THE STEPHENSON SCHOOL OF BIOMEDICAL ENGINEERING

| Code | Title | Credit Hours |
|---------------|--|-----------------|
| BME 3113 | Bioimaging | 3 |
| BME 3133 | Bioelectricity | 3 |
| BME 3153 | Molecular, Cellular and Tissue Engineering | 3 |
| BME 3163 | Biomedical Micro-/Nano-Technology | 3 |
| BME 3440 | Mentored Research Experience | 3 |
| BME 3980 | Honors Research | 1-3 |
| BME 4050 | Design Projects in Biomedical Engineering | 3 |
| BME 4281 | Engineering Co-Op Program | 1 |
| BME 4013/5013 | Introduction to Medical Device Design | 3 |
| BME 4533/5533 | Neural Engineering | 3 |
| BME 4970/5970 | Special Topics/Seminar | 1-3 |
| AME 4213/5213 | Biomechanics I | 3 |
| BME/CH E 5243 | Biochemical Engineering | 3 |
| BME/CH E 5293 | Transport in Biological Systems | 3 |
| BME/CH E 5373 | Tissue Engineering | 3 |
| CH E 5453 | Polymer Science and Engineering | 3 |
| ECE 4823 | Engineering Principles of the Human Body | 3 |
| ECE 5843 | Medical Imaging Systems | 3 |
| ECE/BME 5853 | Biomedical Signals and Systems | 3 |
| ECE 6813 | Advanced Topics in Biomedical Engineering | 3 |
| ECE 5973 | Special Topics in Electrical and Computer Engineering | 3 |
| ECE/BME 6213 | | 3 |

LIST OF APPROVED COURSES FOR UPPER-DIVISION BIOLOGY ELECTIVE

| Code | Title | Credit Hours |
|-----------|------------------------------|-----------------|
| BIOL 3113 | Cell Biology | 3 |
| BIOL 3333 | Genetics | 3 |
| BIOL 3833 | Introduction to Neurobiology | 3 |
| BIOL 4843 | Molecular Biology | 3 |
| CHEM 3653 | Introduction to Biochemistry | 3 |
| MBIO 3813 | Fundamentals of Microbiology | 3 |
| MBIO 4833 | Basic Immunology | 3 |