

## BME Guidesheet Fall 2014

### Fall 1

WTSN 111 Exploring Engineering I  
WTSN 103 Engineering Communications I  
MATH 221 Calculus I (M)  
CHEM 111 Chemical Principles (L)  
Gen Ed Elective (P)  
Body Wellness

### Fall 2

PHYS 132 Calc-Based Physics II  
BME 201 Intro to Biomedical Engineering  
MATH 371 Differential Equations  
BME 203 Biomedical Modeling and Numerical  
Methods  
CHEM 231 Organic Chemistry (L)

### Fall 3

BME 303 Bio-fluid Mechanics  
ME 331 Thermodynamics  
BME 324 Biomedical Instrumentations (L)  
BME Depth or Science Elective  
BME 313 Biomaterials

### Fall 4

BME 450 Biomedical Engineering Design I  
BME 413 Biomedical Transport Phenomena  
BME 480 Human Physiology  
BME Depth Elective  
BME 342 Ethics in Engineering  
Gen Ed Elective (H)

### Spring 1

WTSN 112 Exploring Engineering II  
WTSN 104 Engineering Communications II  
MATH 222 Calculus II  
PHYS 131 Calc-Based Physics I  
Gen Ed Elective (G)  
Body Wellness

### Spring 2

BME 213 Biomolecule Engineering (L)  
BIOL 118 Cell & Molecular Biology  
MATH 323 Calculus III  
Science Elective

### Spring 3

BME 351 Biomedical Engineering Lab  
BME 318 Biomechanics  
BME 340 Bioinformatics and Biostatistics  
BIOL 311 Cell Biology **OR**  
BIOL 301 Molecular Genetics  
Gen Ed Elective (A)

### Spring 4

BME 451 Biomedical Engineering Design II (J)  
BME Depth or Science Elective  
BME Depth Elective  
Gen Ed Elective (N)