## North Carolina State University Biomedical Engineering Curriculum (Effective 01-01-2013) 1 + 3 Program with UNC Asheville

FALL SEMESTER SPRING SEMESTER

## Freshman Year (UNC Asheville)

MATH LANG E CHEM CHEM	120 101 111	Calculus I Academic Writing & Crit Inquir Intro to Engr & Prob Solv General Chemistry Lab General Chemistry GEP Course	4 y 4 1 1 3 3 16	MATH ECON CHEM PHYS	102	Calculus II Prin of Microeconomics (GEP) Organic Chemistry I Physics I GEP Course	4 3 4 3 17
Sophomore Year (NC State)							
MA PY PY BME MAE BME CH	242 208 209 201 206a 204 222 115	Calculus III Physics for Engrs & Sci II Physics for Engrs & Sci II Lab Comp Meth BME Engineering Statics Biomedical Measurements Organic Chemistry I Lab Intro to Computing Environ	4 3 1 3 3 3 1 1 19	BIO BME BME BME MAE	183 203 210 252 208	Intro Bio Cell/Mol Intro Mat Sci of Biomat BME Electronics BME Design & Mfg I Engineering Dynamics	4 3 4 1 3 15
Junior Year (NC State)							
BME BME MA ST HES	301 311 341 XXX 370 XXX	Human Physiology Engr I Linear Systems BME Applied Differential Equations I BME Elective A Prob & Stat for Engineers Health Exercise Studies	3 3 3 3 1 16	BME BME ENG HESF	302 XXX XXX 352 331b XXX	Human Physiology Engr II BME Elective B BME Elective C BME Design & Mfg II Commun for Engr & Tech Health Exercise Studies	3 3 2 3 1 15
Senior Year (NC State)							
BME MAE	451 XXX XXX 201c XXX	BME Senior Design I BME Elective D BME Elective E Engineering Thermodynamics I GEP Course	3 3 3 3 <u>3</u>	BME	452 XXX XXX XXX XXX	BME Senior Design II BME Elective F GEP Course GEP Course GEP Course	3 3 3 3 15

Total hours shown: 128

*Italics* indicates the course is received from NC State by distance education (none).

a or CE 214 (3) b or ENG 333(3) c or MSE 301(3)

The BME program has a high demand and a unique application process. Interested students should contact the NC State BME advisor as early as possible.