

B.S. BIOMEDICAL ENGINEERING – ENGINEERING CALCULUS 2025

Year 1

Year 2

Year 3

Year 4

Fall 16cr

Spring 16cr

Fall 16cr

Spring 15cr

Fall 17cr

Spring 16cr

Fall 15cr

Spring 14cr

BME 1010
Careers in Biomed Eng.
1cr
F

CHEM 1210, CHEM 1215 & Calc I ↓
BME 1020
Fundamentals of BME I
3cr
Sp

Calc II, PHYS 2210 & PHYS 2220 ↓
BME 2100
Fundamentals of BME II
4cr
F

MATH 2250 ↓
BME 3301
Computational Methods
3cr
Sp

BME 3301 & BIOL 2020 ↓
BME 3202
Physiology for Engineers
4cr
F

MATH 2250, PHYS 2220 & BME 3301 ↓
BME 3101
Biosignals Analysis
3cr
Sp

BME 3801 ↓
BME 4801
bioDesign II
3cr
F

PHYS 2220 ↓
BME 4001
Biotransport/Biomolecular
3cr
Sp

CHEM 1210 ↓
CHEM 1210
Gen Chem I
4cr
F,Sp,S

CHEM 1210 ↓
CHEM 1220
Gen Chem II
4cr
F,Sp,S

CHEM 1210 & BME 1020 ↓
BIOL 2020
Cell Biology
3cr
F,Sp,S

BME 3091
Current Research in BME
1cr
Sp

BME 3301 ↓
BME 4250
Biomechanics I
4cr
F

BME 3301 & BME 3302 ↓
BME 3801
bioDesign I
3cr
Sp

BME 4990 ↓
BME 4991
Senior Thesis Commun. I
2cr
F

BME 4991 ↓
BME 4992
Senior Thesis Commun. II
2cr
Sp

CHEM 1210 ↓
CHEM 1215
Gen Chem I Lab
1cr
F,Sp,S

CHEM 1215 & CHEM 1220 ↓
CHEM 1225
Gen Chem II Lab
1cr
F,Sp,S

Calc II ↓
MATH 2250
Diff Eq/Lin Alg
4cr
F,Sp,S

BME 3301 ↓
BME 3070
Statistics for Engineers
3cr
Sp

BME ELECTIVE 1

BIOL 2020 ↓
BME 4301
Biomaterials
3cr
Sp

BME 3301 + PHYS 2220 ↓
BME 4101
Biosystems Analysis/Model.
4cr
F

BME ELECTIVE 4

MATH 1310
Engineering Calculus I
4cr
F,Sp,S

MATH 1310 ↓
MATH 1320
Engineering Calculus I
4cr
F,Sp,S

MATH 1320 ↓
MATH 2310
Vector Calculus
1cr
F,Sp,S

BME 3150
Digital Design + Fabrication
2cr
Sp

GEN ED ELECTIVE 2

BME 4990
Biomedical Eng. Research
1cr
Sp

GEN ED ELECTIVE 4

BME ELECTIVE 5

WRTG 1010 ↓
WRTG 2010
Intermediate Writing
3cr
F,Sp,S

Calc I ↓
PHYS 2210
Physics for Scientist I
4cr
F,Sp,S

PHYS 2210 ↓
PHYS 2220
Physics for Scientist II
4cr
F,Sp,S

CHEM 1220 ↓
CHEM 2310
Org Chem I
4cr
F,Sp,S

GEN ED ELECTIVE AI

BME ELECTIVE 2

BME ELECTIVE 3

GEN ED ELECTIVE 5

GEN ED ELECTIVE 1

University GPA and Technical GPA (grey courses above) are considered for entry into upper division courses. See section 3.2.2 of the BME Handbook for more information.

Apply for Upper Division Ready

CHEM 2310 ↓
CHEM 2315
Org Chem I Lab
2cr
F,Sp,S

GEN ED ELECTIVE 3

GUIDE

COURSE #
Title
Credit Hours
Semester Offered

Requires Upper Division Ready Status
↓ Prerequisite Corequisite