West Chester University B.S. in Biomedical Engineering through the Honors College Advisement Sheet

Effective for students entering Spring '25 and later.

Indicate all the courses you have taken at WCU or transferred for credit. For completed courses, also list the grades. Mark an asterisk (*) beside courses you are currently taking.

The grade of C or better is necessary in all required science and math courses

I. SCIENCE/MATH/ COGNATE COURSES

BIO 110 ___ (General Biology)
BIO 265 ___ (Anatomy and Physiology for Engineers)
CHE 103 ___ (General Chemistry I)
CRL 103 ___ (General Chemistry I Lab)
CHE 104 ___ (General Chemistry II)
CHL 104 ___ (General Chemistry II Lab)
CHE 230 ___ (Introduction to Organic and Biological Chemistry)
ECO 112 ___ (Principles of Economics (Micro))
MAT 161 ___ (Calculus I)
MAT 162 ___ (Calculus II)
MAT 261 ___ (Calculus III)
MAT 315 ___ (Differential Equations and Linear Algebra)
PHY 170 ___ (Physics I)
PHY 180 ___ (Physics II)

II. BIOMEDICAL ENGINEERING CORE CLASSES

BME 110 ____ (Introduction to Biomedical Engineering)
BME 120 ___ (Introduction to Computer-Aided Engineering Design)
BME 220 ___ (Statics)

BME 230 ___ (Dynamics)
BME 310 ___ (Engineering Thermodynamics)
BME 315 ___ (Biomedical Engineering Laboratory I)
BME 320 ___ (Biostatistics for Engineers)
BME 325 ___ (Biomedical Engineering Laboratory II)
BME 335 ___ (Biomaterials)
BME 345 ___ (Biotransport Phenomena)
BME 355 ___ (Biomedical Instrumentation)
BME 365 ___ (Biomechanics for Engineers)
BME 410 ___ (Senior Design I)
BME 420 ___ (Senior Design II)
BME 450 ___ (Regulatory and GMP)
BME 460 ___ (Biomedical Device Design)

III. ELECTIVE COURSES

Select 9 credits of BME electives.

IV. HONORS COLLEGE CORE SEQUENCE for GEN ED (27 credits)

HON 100 _____ (Self Awareness)
HON 211 _____ (Public Discourse)
HON 212 _____ (Ethics & Technology)
HON 310 _____ (Community Change)
HON 311 _____ (Stewardship/Civic Responsibility)
HON 312 _____ (Educational Systems)
or
HON 322 _____ (Leader. With ELLs)
HON 313 _____ (Public Opinion)
HON 314 _____ (Environ. Systems)
HON 315 _____ (Community & Arts)
SCI ____ __x___
MAT ___ __x___

V. ADDITIONAL HONORS COLLEGE REQUIREMENTS (9 credits)

A) Two HON seminars at the 320 level or above (except 322)

HON _____ _____
HON _____ _____

B) Capstone Project^

HON 490 _____

^NOTE: ***Enrollment upon core completion***: ideally 6th or 7th semester.

VI. DIRECTED ELECTIVES

Take enough directed electives to complete 120 credits. The actual number of electives required will vary depending upon (among other things) the option to complete a minor(s) and the number of courses the student must take to complete the foreign language requirement.

Bring this sheet with you whenever you meet with your advisor about scheduling or course planning!

(Revised Spring 2025)