

BIOMEDICAL ENGINEERING

Recommended course plan

YEAR	FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
FRESHMAN	Writ 101 – First Year Writing	3	Writ 102 – First Year Writing II	3
	Math 261 – Calculus I	3	Math 262 - Calculus II	3
	Chem 105/115 – General Chemistry I	4	Chem 106/116 – General Chemistry II	4
	Bisc 160/161 – Biology I	4	Bisc 162/163 – Biology II	4
	Humanities	3	BME 200 – Introduction to BME	2
	TOTAL CREDIT HOURS	17	TOTAL CREDIT HOURS	16
SOPHOMORE	Math 263 – Calculus III	3	Math 264 – Calculus IV	3
	Phys 211/221 – Calc-based Physics I	4	Math 353 – Differential Equations	3
	CSCI 251 – Programming for Engineering	3	Phys 212/222 – Calc-based Physics II	4
	BME 222 – Biomaterials	3	ENGR 360 – Electric Circuit Theory	3
	Chem 221/225 – Organic Chemistry I	4	Chem 222/226 – Organic Chemistry II	4
	TOTAL CREDIT HOURS	17	TOTAL CREDIT HOURS	17
JUNIOR	EI E 331 – Linear Systems	3	BME 314 – Biomeasures	1
	BME 313 – BME Physiology	3	BME 444 – Biomed Controls	3
	BISC 336 – Genetics	4	BME 370 – Bioinformatics & Biosystems	3
	Chem E 307 – Chem Process Principles I	2	Chem E 308 – Chem Process Principles II	2
	Social Science	3	Econ 310 – Engineering Economy	3
			BME Track Elective	3
TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15	
SENIOR	BME 461 – Senior Design I	2	BME 462 – Senior Design II	2
	BME 333 – Biological Transport	3	BME 320 – Bioseparations	3
	BME 510 – Drug and Gene Delivery	3	Chem E 520 – Biochemical Engineering	3
	BME Track Elective	3	Humanities or Fine Arts	3
	Engr 400 – Leadership & Professionalism	1	Social Science	3
	Fine Arts	3		
TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	14	
MINIMUM TOTAL CREDIT HOURS				126

NOTE: this is a sample course plan for the Biomolecular emphasis. For the other emphases, the freshman and sophomore schedules are largely the same, with much of the specialization taking place in the final two years.



Visit engineering.olemiss.edu/advising for full course information.