

Biochemistry & Molecular Biology Course Planning Guide

Year 1 and 2

Biochemistry	BMB 101	Frontiers in Biochemistry (fall year 1)	
Chemistry	CEM 151/152 or CEM 141/142	General chemistry lectures	
	161/162	General chemistry labs	
	CEM 351/352 or CEM 251/252	Organic chemistry lectures	
	CEM 355	Organic chemistry lab I (spring only)	
	CEM 262	Quantitative analysis	
Biology	BS 161/171	Cells & Molecules lecture & lab	
	BS 162	Organisms & Populations lecture	
Physics	PHY 183/184 or PHY 221/222 or PHY 241/242 or	Physics for Scientists & Engineers Studio Physics for Life Scientists Physics for Cellular and Molecular Biologists	
	Calculus	MTH 132/133	Calculus I & II

Year 3 and 4

Biochemistry	BMB 461/462	Advanced biochemistry lectures (year 3)
	BMB 470	Advanced molecular biology lab (fall year 4)
	BMB 471	Advanced biochemistry lab (spring year 4)
	BMB 495 or 499	Senior seminar or Senior thesis (year 4)
Chemistry	CEM 356	Organic chemistry lab II (fall only)
	CEM 383	Introductory physical chemistry lecture
Biology	10 credits	300-400 level advanced biology courses
Computer Science	CMSE 201	Introduction to Computational Modeling

University Requirements

Tier I Writing	WRA 101/195H (recommended for year 1)
Integrative Studies in Social Sciences*	ISS 200-level
	ISS 300-level
Integrative Studies in Arts & Humanities*	IAH 201-210
	IAH 211 or higher
Integrative Studies in Biological and Physical Sciences	Not required; fulfilled with BS and CEM courses

*Note: Must complete two ISS/IAH courses with different diversity designations (I, N, D)