

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 241/242 or PHY 183/184	Physics for Cellular and Molecular Biologists Physics for Scientists & Engineers
Calculus	MTH 132/133	Calculus I & II

Year 3 and 4

Biochemistry	BMB 461/462	Advanced biochemistry lectures (year 3)
	BMB 472	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 383/384	Introductory physical chemistry lectures
Biology	10 credits	300-400 level advanced biology courses
Computer Science	CMSE 201	Introduction to Computational Modeling (required for students starting in major beginning Summer 2018)

University Requirements

Tier I Writing	WRA 101 (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)