

CURRICULUM GUIDE FOR BIOCHEMISTRY

(This is an example and not all Compass courses are listed or noted.)

BACHELOR OF ARTS DEGREE (STARTING IN FALL OF ODD NUMBERED YEARS)

32 semester hours in Chemistry

8 semester hours in Biology

3 or 4 semester hours in Pre-Calculus or Calculus I

YEAR 1

FALL	COURSE TITLE	CREDITS
BIOL 115	Fundamentals of Cell Biology and Genetics + Lab	4
CHEM 110	General Chemistry I + Lab	4
CMPS 101	Compass Navigator First-year	1
CMPS 110	Compass Seminar I: Writing & Speaking	3
MATH117/ MATH 225	Precalculus with Algebra/ Calculus I	3-4

SPRING	COURSE TITLE	CREDITS
CHEM 111	General Chemistry II + Lab	4
CHEM 187	Introduction to Research I [^]	1
CMPS 111	Compass Seminar II: Research, Writing, and Speaking	3

YEAR 2

FALL	COURSE TITLE	CREDITS
CHEM 221	Organic Chemistry I + Lab	4

SPRING	COURSE TITLE	CREDITS
BIOL 270	Genetics + Lab	4
CHEM 222	Organic Chemistry II + Lab	4

YEAR 3

FALL	COURSE TITLE	CREDITS
CHEM 340	Biochemistry	4
CHEM 385	Junior Seminar I: Chemical Literacy	1

SPRING	COURSE TITLE	CREDITS
CHEM 233	Analytical Chemistry + Lab	4
CHEM 347	Biochemical Methods (Spring Odd)	2
CHEM 386	Junior Seminar II: Writing & Ethics	1

YEAR 4

FALL	COURSE TITLE	CREDITS
CMPS 450	Compass Seminar III	3

SPRING	COURSE TITLE	CREDITS
CHEM 446	Biochemistry II-Metabolism (Spring Even)	3
CHEM 499	Chemistry Capstone*	1

[^]CHEM 187 is not required but recommended. CHEM 187 may be taken in any semester after Fall first year. Contact Chemistry faculty for more information. Students who desire more experience in the lab may choose CHEM 287, Introduction to Research II, after completing CHEM 187.

*A literature review is required; however, students may choose to enroll in CHEM 387 to perform laboratory research, and communicate their results.

THESE ELECTIVES ARE OPTIONAL		
CHEM 310	Medicinal Chemistry (Spring Even)	3
CHEM 387	Laboratory Research	1
CHEM 435	Molecular Spectroscopy (Fall Even)	2
CHEM 436	Separation Methods (Fall Odd)	2

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