

CURRICULUM GUIDE FOR BIOCHEMISTRY (BA)

Transfer students interested in Secondary Education: Biochemistry must consult with the Chair of the Education Department at Clarke to plan Education courses.

TRANSFER with AA or AS degree

YEAR 1 OR JUNIOR YEAR

FALL	COURSE TITLE	CREDITS
CHEM 340	Biochemistry*	4
CHEM 385	Junior Seminar I: Chemical Literacy	1
CHEM 435	Molecular Spectroscopy (even Fall) ‡**	2
CMPS 102	Compass Navigator: Transfer and Nontraditional	1

SPRING	COURSE TITLE	CREDITS
BIOL 270	Genetics + Lab	4
CHEM 233	Analytical Chemistry + Lab (odd Spring) ‡	4
CHEM 347	Biochemical Methods (odd Spring) ‡	2
CHEM 386	Junior Seminar II: Writing and Ethics	1

YEAR 2 OR SENIOR YEAR

FALL	COURSE TITLE	CREDITS
CHEM 436	Separation Methods (odd Fall) ‡ **	2
CMPS 450	Compass Seminar III	3

SPRING	COURSE TITLE	CREDITS
CHEM 310	Medicinal Chemistry (even Spring) ‡ **	3
CHEM 446	Biochemistry II: Metabolism (even Spring) ‡	3
CHEM 499	Chemistry Research – Capstone	1

*CHEM 222 – Organic Chemistry II + Lab is a pre-requisite for Biochemistry. See note below.

**Elective

‡This course may be taken in either Junior or Senior year.

For a Bachelor of Arts (BA) Degree in Biochemistry a student must complete 32 hours in Chemistry and 11-12 hours of support courses in Biology and Math.

REQUIRED COURSES PRIOR TO ENTERING CLARKE:

MATH 117 – Pre-Calculus with Algebra OR MATH 225 – Calculus I OR their equivalents

BIOL 115 – Fundamentals of Cell Biology and Genetics + Lab OR equivalent

CHEM 222 – Organic Chemistry II + Lab OR equivalent

Note: Students who do not complete the three required courses prior to entering Clarke may take longer to complete their BA degree.