

CURRICULUM GUIDE FOR CHEMISTRY (BA)

Transfer students interested in Secondary Education Chemistry 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 221	Organic Chemistry I + Lab*	4
CHEM 385	Junior Seminar I: Chemical Literacy	1
CMPS 102	Compass Navigator: Transfer and Nontraditional	1

SPRING	COURSE TITLE	CREDITS
CHEM 222	Organic Chemistry II + Lab	4
CHEM 233	Analytical Chemistry + Lab** (odd Spring)	4
CHEM 386	Junior Seminar II: Writing and Ethics	1

YEAR 2 OR SENIOR YEAR

FALL	COURSE TITLE	CREDITS
CHEM 340	Biochemistry	4
CHEM 435 <i>or</i> CHEM 436	Molecular Spectroscopy (even Fall) ‡ <i>or</i> Separation Methods (odd Fall) ‡	2
CMPS 450	Compass Seminar III	3

SPRING	COURSE TITLE	CREDITS
CHEM 347	Biochemical Methods (odd Spring) ‡	3
CHEM 310	Medicinal Chemistry (even Spring) ‡	2
CHEM 446	Biochemistry II: Metabolism (even Spring) ‡	3
CHEM 499	Chemistry Research – Capstone	1

*CHEM 111 – General Chemistry II is a pre-requisite for CHEM 221. See note below

**CHEM 233 is only offered in the odd Spring semesters and can be taken in either Junior or Senior year.

‡ These courses are elective. Choose a minimum of eight (8) credit hours.

For a Bachelor of Arts (BA) Degree in Chemistry, a student must complete 31-32 hours in Chemistry and 3 hours in Math.

REQUIRED COURSES PRIOR TO ENTERING CLARKE:

MATH 117 – Pre-Calculus with Algebra *OR* MATH 225 – Calculus I

Note: Students who do not complete CHEM 110 and 111 – General Chemistry I and II, prior to entering Clarke may take longer to complete their BA degree.