

Major in Biochemistry, B.A. Degree

One Suggested Course Sequence

Year One

Semester 1

CHEM-UA 125	General Chem I & Lab	5 Credits
MATH-UA 121	Calculus I	4 Credits
CORE-UA or EXPOS-UA 1	CORE Course or Writing the Essay (%)	4 Credits
FRSEM-UA	Seminar (%)	4 Credits
	Total	17 Credits

Semester 2

CHEM-UA 126	General Chem II & Lab	5 Credits
MATH-UA 122	Calculus II	4 Credits
CORE-UA or EXPOS-UA 1	CORE Course or Writing the Essay (%)	4 Credits
	Elective	4 Credits
	Total	17 Credits

Year Two

Semester 1

CHEM-UA 225	Organic Chem I & Lab	5 Credits
CHEM-UA 140	Mathematics of Chemistry (#)	4 Credits
BIOL-UA 11	Biology I (#)	4 Credits
CORE-UA	CORE Course	4 Credits
	Total	17 Credits

Semester 2

CHEM-UA 226	Organic Chem II & Lab	5 Credits
	Elective	4 Credits
BIOL-UA 12	Biology II (#)	4 Credits
CORE-UA	CORE Course	4 Credits
	Total	17 Credits

Year Three

Semester 1

PHYS-UA 11	Physics I	5 Credits
CHEM-UA 881	Biochemistry I	4 Credits
CORE-UA	CORE Course (%)	4 Credits
	Elective	4 Credits
	Total	17 Credits

Semester 2

PHYS-UA 12	Physics II	5 Credits
CHEM-UA 882	Biochemistry II	4 Credits
	Elective	4 Credits
	Elective	4 Credits
	Total	17 Credits

Year Four

Semester 1

CHEM-UA 651 or 652	Physical Chemistry (***)	4 Credits
CHEM-UA 885	Experimental Biochemistry	4 Credits
CHEM-	Advanced Chemistry Elective(+)(%)	4 Credits
	Elective	4 Credits
	Total	16 Credits

Semester 2

CHEM-UA 651 or 652	Physical Chemistry (***)	4 Credits
CHEM-UA 890	Advanced Biochemistry	4 Credits
	Elective	4 Credits
	Elective	4 Credits
	Total	16 Credits

+ - One advanced chemistry elective is required.

* - For strong students, it is recommended that Physics be taken in the first or second year. Biology can also be considered for the first year. In that case, Physical Chemistry need not be delayed to the senior year.

** A course in computer science is recommended but not required.

***- Physical Chemistry: Quantum Mechanics & Spectroscopy CHEM-UA 651 and Physical Chemistry: Thermodynamics & Kinetics CHEM-UA 652 may be taken in either order, both are offered in the spring and fall semesters.

- **Strongly** recommended, but not required. Other math courses may be substituted

+ - **One advanced course in Chemistry is required for the major, taken in the third or fourth year (for students who matriculated Fall 2013 and later).**

% - To be taken in EITHER Fall or Spring semester.