

**Major in Chemistry, B.A. Degree**

One Suggested Course Sequence (As of Fall 2013)

Year One
**Semester 1**

CHEM-UA 125	General Chem I & Lab	5 Credits
MATH-UA 121	Calculus I	4 Credits
CORE-UA	CORE Course	4 Credits
EXPOS-UA 1	Writing the Essay (%)	4 Credits
	<b>Total</b>	<b>17 Credits</b>

Year Two
**Semester 1**

CHEM-UA 225	Organic Chem I & Lab	5 Credits
CHEM-UA 140	Math of Chemistry(Optional#)	4 Credits
PHYS-UA 11	General Physics I (*)	5 Credits
CORE-UA	CORE Course	4 Credits
	<b>Total</b>	<b>18 Credits</b>

Year Three
**Semester 1**

CHEM-UA 651 or 652	Physical Chemistry (***)	4 Credits
	Elective (**)	4 Credits
	Elective	4 Credits
	Elective	4 Credits
	<b>Total</b>	<b>16 Credits</b>

Year Four
**Semester 1**

CHEM-	Advanced Chemistry Elective(+)	4 Credits
	Elective	4 Credits
	Elective	4 Credits
	Elective	4 Credits
	<b>Total</b>	<b>16 Credits</b>

**Semester 2**

CHEM-UA 126	General Chem II & Lab	5 Credits
MATH-UA 122	Calculus II	4 Credits
CORE-UA	CORE Course	4 Credits
	Elective	4 Credits
	<b>Total</b>	<b>17 Credits</b>

**Semester 2**

CHEM-UA 226	Organic Chem II & Lab	5 Credits
	Elective (**)	4 Credits
PHYS-UA 12	General Physics II (*)	5 Credits
CORE-UA	CORE Course	4 Credits
	<b>Total</b>	<b>18 Credits</b>

**Semester 2**

CHEM-UA 651 or 652	Physical Chemistry (***)	4 Credits
CHEM-UA 661	Physical Chem. Lab	4 Credits
	Elective	4 Credits
	Elective	4 Credits
	<b>Total</b>	<b>16 Credits</b>

**Semester 2**

CHEM-UA 711	Inorganic Chemistry	4 Credits
CHEM-	Advanced Chemistry Elective (+)	4 Credits
	Elective	4 Credits
	Elective	4 Credits
	<b>Total</b>	<b>16 Credits</b>

\* - For strong students, it is recommended that Physics be taken in the first year. For Pre-med students needing Biology I & II, the course may be taken in any of the first three years. Other options are possible.

\*\* - 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.

+ - **Two advanced course in Chemistry is required for the major, taken in the third or fourth year.**

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