SYNOPSIS OF THE B.S. CURRICULUM IN CHEMISTRY

FOURTH (FRESHMAN) CLASS

First Semester

	Subject	Semester Hrs. Credit
CH 125	Lab for CH 137	2
CH 137	Intro Chemistry I	3
MA 123	Calculus I*	3
HI 103	World History	3
WR 101	English Composition I*	3
	AS, MS, or NS	1
TOTAL		**15**

Second Semester

	Subject	Semester Hrs. Credit
CH 126	Lab for CH 138	2
CH 138	Intro Chemistry II	3
MA 124	Calculus II*	3
HI 104	World History	3
WR 102	English Composition II*	3
PE 102	Boxing	1/2
	AS, MS, or NS	1
TOTAL		**15 1/2**

THIRD (SOPHOMORE) CLASS

First Semester

	Subject	Semester Hrs. Credit
CH 223	Organic Chemistry I	3
CH 225	Organic Lab I	1 1/2
MA 215	Calculus III	4
PY 160	General Physics I (with PY 155)	4
	Elective [1]	3
PE 200	D & A Awareness	1/2
	AS, MS, or NS	1
TOTAL		**17**

Second Semester

	Subject	Semester Hrs. Credit
CH 224	Organic Chemistry II	3
CH 225	Organic Lab II.	3
CH 246	Inorganic Chemistry	3
PY 161	General Physics II (with PY 156)	4
PS 344	Leadership in Organizations	3
SE 300	Public Speaking	1
PE 211	Wrestling	1/2
	AS, MS, or NS	1/2
TOTAL		**17-18**

SECOND (JUNIOR) CLASS

First Semester

	Subject	Semester Hrs. Credit
CH 301	Physical Chemistry I	3
CH 311W	Lab for CH 301	3
CH 335	Analytical Chemistry I	3
CH 337	Lab for Analytical Ch I	1 1/2
CH 321	Structural Biochemistry	3
	Elective [1]	3
PE 300	Prin. Physical Cond.	1
	AS, MS, or NS	2/1
TOTAL		**18-17**

Second Semester

	Subject	Semester Hrs. Credit
CH 302	Physical Chemistry II	3
CH 336	Instrumental Analysis	3
CH 338	Lab for Instrumental Analysis	1 1/2
	Elective	3
	Adv CH Laboratory [2]	2
	Cultures and Civil Elective [1]	3
PE 101	Swimming	1/2
	AS, MS, or NS	2
TOTAL		**18**

FIRST (SENIOR) CLASS

First Semester

	Subject	Semester Hrs. Credit
	Adv. CH Laboratory [2]	2
	Cultures and Civilizations	3
CH 401	CH Capstone	3
	Electives [1]	7
	Physical Education	1/2
	AS, MS, or NS	2
TOTAL		**17 1/2**

Second Semester

	Subject	Semester Hrs. Credit
	Adv. CH Course [3]	3
	Adv. CH Laboratory [2]	1
	Electives [1]	9
	Physical Education	1/2
	AS, MS, or NS	2
TOTAL		**17 1/2**

Total Hours: 135.5 (includes at least 54.5 chemistry hours depending on options selected)

* Minimum Grade of C Required

[1] Twelve semester hours of electives must be in the Humanistic-Social area. In addition to demonstrating proficiency in a foreign language, cadets must complete 6 credit hours of cultures and civilization courses (study abroad may be substituted for 3 hours) and 3 credit hours of Leadership in Organizations.

[2] A two-semester sequence of core-curriculum approved science and laboratory. The specific course may be determined by the chosen concentration area.

[3] Students must complete three semester hours of advanced chemistry courses from CH322, CH425, CH 426, CH444, CH467, CH462-4.

[4] Concentration Electives are determined by the chosen minor/concentration/certification. The chosen field may require additional free electives to complete.