

CHEMISTRY / BIOCHEMISTRY OPTION **ACS CERTIFIED**  
(SEE YOUR DEPARTMENT FOR SPECIFIC ADVISORY INFORMATION)  
**CHECK LIST**

NAME \_\_\_\_\_ ID \_\_\_\_\_ DATE \_\_\_\_\_

GENERAL EDUCATION REQUIREMENTS**GROUP I: English and Literature - 2 COURSES**

- A. ENGLISH 103 (Grade of "C" or better) **OR** 4 \_\_\_\_\_  
HONORS 111 (if in Honors Program)
- B. LITERATURE (in either English or  
Modern Languages) 4 \_\_\_\_\_

**GROUP II: History - 2 COURSES**

- A. HISTORY 101, 102 or 103 4 \_\_\_\_\_
- B. HISTORY 101, 102, 103 or a History  
Course above 103 4 \_\_\_\_\_

**GROUP III: Humanities and Social Sciences –  
3 COURSES FROM 3 DIFFERENT AREAS**

- A. Select one course from one of the following six areas:  
Art, Communications, Dance OR Theater Arts, Modern  
Languages, Music, Philosophy. (HONR 211 if in Honors  
Program)
- \_\_\_\_\_ 3/4 \_\_\_\_\_

- B. **Select one course from one of the following six areas:**  
Anthropology, Conflict Analysis and Dispute Resolution ,  
Sociology, Economics, **Human** Geography, Political Science,  
Psychology. (HONR 112 if in Honors Program)
- \_\_\_\_\_ 3/4 \_\_\_\_\_

- C. Select **one** course from either Group III A or IIIB (course may  
**not be from the same area selected for IIIA or IIIB**)
- \_\_\_\_\_ 3/4 \_\_\_\_\_

**GROUP IV: Natural Science, Math and Computer Science – 4  
COURSES**

**SATISFIED BY MAJOR**        X  

**GROUP V: Health Fitness - 1 COURSE**

Complete PHEC 106 Personalized Hlth/Fitness      3 \_\_\_\_\_

CHEMISTRY REQUIREMENTS

CHEM 121 GENERAL CHEMISTRY I	4
CHEM 122 GENERAL CHEMISTRY II	4
CHEM 207 LABORATORY SAFETY	1
CHEM 212 CHEM OF THE ELEMENTS	2
CHEM 221 ORGANIC CHEMISTRY I	4
CHEM 222 ORGANIC CHEMISTRY II	4
CHEM 321 ANALYTICAL CHEMISTRY	4
CHEM 333 INSTRUMENTAL ANALYSIS	3
CHEM 341 PHYSICAL CHEMISTRY I	3
CHEM 342 PHYSICAL CHEMISTRY II	3
CHEM 406 INORGANIC CHEMISTRY	3
CHEM 410 CHEMICAL RESEARCH	3
CHEM 415 SEMINAR	2
CHEM 417 BIOCHEMISTRY I	4
CHEM 418 BIOCHEMISTRY II	3
CHEM 419 BIOCHEMICAL METHODS	4
CHEM 441 ADVANCED EXPER. CHEMISTRY I	4

MATHEMATICAL REQUIREMENTS

MATH 201 CALCULUS I	4
MATH 202 CALCULUS II	4

PHYSICS REQUIREMENTS

PHYS 221 PHYSICS I	4
PHYS 223 PHYSICS II	4
PHYS 309 MATH. PHYSICS	3

BIOLOGY REQUIREMENTS

BIOL 210 BIOLOGY:CONCEPTS AND METHODS	4
BIOL 211 OR 212 OR 213	4
BIOL 350 CELL BIOLOGY	4
BIOL 370 MOLECULAR GENETICS	4

CHEMISTRY MAJORS MUST HAVE AT LEAST A "C" AVERAGE IN THE MATH AND SCIENCE COURSES REQUIRED BY THE MAJOR.

TRANSFER STUDENTS MAJORING IN CHEMISTRY ARE REQUIRED TO COMPLETE AT LEAST 15 HOURS IN CHEMISTRY AT SALISBURY UNIVERSITY.

ALL STUDENTS MUST COMPLETE A MINIMUM OF THIRTY CREDIT HOURS AT THE 300/400 LEVEL WITH GRADES OF "C" OR BETTER; TRANSFER STUDENTS MUST COMPLETE AT LEAST 15 HOURS OF THESE 30 HOURS AT SALISBURY UNIVERSITY.

**NOTE:** This Bachelor of Science degree in chemistry **with an American Chemical Society certified biochemistry option** requires a minimum of 123 credits for graduation.

**CURRICULUM GUIDE**  
**CHEMISTRY/ BIOCHEMISTRY OPTION**

ACS Certified

**Freshman Year**

CHEM 121	General Chemistry I	4	BIOL 210	Biology: Concepts & Methods	4
ENGL 103	Composition & Research	4	BIOL 210	Biology: Concepts & Methods	4
HIST	Group IIA	4	CHEM 122	General Chemistry II	4
MATH 201	Calculus I	<u>4</u>	ENGL	Literature (IB)	4
		16	MATH 202	Calculus II	<u>4</u>
				16	

**Sophomore Year**

CHEM 221	Organic Chemistry I	4	CHEM 207	Laboratory Safety	1
PHYS 221	Physics I	4	CHEM 207	Laboratory Safety	1
HIST	Group IIB	4	CHEM 212	Chemistry of the Elements	2
BIOL 211	Microbiology		CHEM 222	Organic Chemistry II	4
<b>OR</b> 212	Intro. to Plant Biol.		PHYS 223	Physics II	4
<b>OR</b> 213	Zoology	<u>4</u>	BIOL 350	Cell Biology	<u>4</u>
		16			15

**Junior Year**

CHEM 341	Physical Chemistry I	3	BIOL 370	Molecular Genetics	4
CHEM 321	Analytical Chemistry	4	BIOL 370	Molecular Genetics	4
CHEM 417	Biochemistry I	4	CHEM 342	Physical Chemistry II	3
PHYS 309	Mathematical Physics	3	CHEM 333	Instrumental Analysis	3
PHEC 106	Personalized Health & Fitness	<u>3</u>	CHEM 415	Seminar	2
		17	CHEM 418	Biochemistry II	<u>3</u>
					15

**Senior Year**

CHEM 406	Inorganic Chemistry	3	CHEM 419	Biochemical Methods	4
CHEM 410	Chemistry Research	3	CHEM 419	Biochemical Methods	4
CHEM 441	Advanced Experimental			Group IIIB (3 or 4)	3/4
	Chemistry I	4		Group IIIC (3 or 4)	3/4
	Group IIIA (3 or 4)	<u>3/4</u>		Electives	<u>4</u>
		13/14			14-16

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