

CHEMISTRY/BIOCHEMISTRY TRACK **(NON-ACS CERTIFIED)**  
ARTS AND SCIENCES  
(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 311 SURVEY OF P. CHEMISTRY      | 3 |
| CHEM 321 ANALYTICAL CHEMISTRY        | 4 |
| CHEM 333 INSTRUMENTAL ANALYSIS       | 3 |
| CHEM 406 INORGANIC CHEMISTRY         | 3 |
| CHEM 413 INTERN <b>OR</b> CHEM 410   | 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 |

BIOLOGY REQUIREMENTS

|                                      |        |
|--------------------------------------|--------|
| BIOL 210 BIOLOGY: CONCEPTS & METHODS | 4      |
| BIOL 211 OR 212 OR 213               | 4      |
| BIOL 350 or 370                      | 4      |
| BIOL ELECTIVE (UPPER LEVEL)          | 3 or 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.

**CURRICULUM GUIDE**  
**CHEMISTRY MAJOR**  
 (Biochemistry)

**Freshman Year**

|          |                        |          |          |                      |          |
|----------|------------------------|----------|----------|----------------------|----------|
| CHEM 121 | General Chemistry I    | 4        | CHEM 122 | General Chemistry II | 4        |
| ENGL 103 | Composition & Research | 4        | CHEM 122 | General Chemistry II | 4        |
| HIST     | Group IIA              | 4        | ENGL     | Literature (IB)      | 4        |
| MATH 201 | Calculus I             | <u>4</u> | HIST     | Group IIB            | 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        |
|          | Group IIIA (3 or 4)  | 3/4      | CHEM 212      | Chemistry of the Elements | 2        |
| BIOL 210 | Concepts and Methods | <u>4</u> | CHEM 222      | Organic Chemistry II      | 4        |
|          |                      | 15/16    | PHYS 223      | Physics II                | 4        |
|          |                      |          | BIOL 211      | Microbiology              |          |
|          |                      |          | <b>OR</b> 212 | Intro. to Plant Biol.     |          |
|          |                      |          | <b>OR</b> 213 | Zoology                   | <u>4</u> |
|          |                      |          |               |                           | 15       |

**Junior Year**

|          |                              |            |          |                               |          |
|----------|------------------------------|------------|----------|-------------------------------|----------|
| CHEM 311 | Survey Of Physical Chemistry | 3          | CHEM 333 | Instrumental Analysis         | 3        |
| CHEM 321 | Analytical Chemistry         | 4          | CHEM 333 | Instrumental Analysis         | 3        |
| CHEM 417 | Biochemistry I               | 4          | CHEM 418 | Biochemistry II               | 3        |
|          | Group IIIB (3 or 4)          | <u>3/4</u> |          | Group IIIC (3 or 4)           | 3/4      |
|          |                              | 14/15      |          | Elective                      | 3        |
|          |                              |            | PHEC 106 | Personalized Health & Fitness | <u>3</u> |
|          |                              |            |          |                               | 15/16    |

**Senior Year**

|               |                                   |          |          |                     |          |
|---------------|-----------------------------------|----------|----------|---------------------|----------|
| CHEM 406      | Inorganic Chemistry               | 3        | CHEM 415 | Seminar             | 2        |
| #CHEM 413     | Internship/Co-op in Chemistry     | 3        | CHEM 415 | Seminar             | 2        |
| CHEM 441      | Advanced Experimental Chemistry I | 4        | CHEM 419 | Biochemical Methods | 4        |
| BIOL 350      | Cell Biology                      |          | BIOL     | Elective            | 3 or 4   |
| <b>OR</b> 370 | Molecular Genetics                | <u>4</u> |          | Electives           | <u>4</u> |
|               |                                   | 14       |          |                     | 13 or 14 |

#Students may substitute one semester of chemical research (Chemistry 410).

**NOTE:** The Bachelor of Science degree in chemistry requires a minimum of 120 credits for graduation.

