**Albany State**

**BACHELOR OF SCIENCE DEGREE IN CHEMISTRY**

**Courses Titles Credit Hrs.**

I. Required: 18 hours, lower division (1000-2000 Level)

CHEM 1211K General Chemistry I 4

CHEM 1212K General Chemistry II 4

CHEM 2301K Organic Chemistry I 4

**Arts & Humanities**

CHEM 2302K Organic Chemistry II 4

A 2 hours course taken from Area D for science majors 2

**Total 18**

**Business**

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL | 2111K | Biology I | 4 |
| MATH | 2212 | Calculus II | 4 |
| MATH | 2213 | Calculus III | 4 |
| CHEM | 2351K | Quantitative Analysis I | 4 |
| CHEM | 2352K | Quantitative Analysis II | 4 |
| CHEM | 3221K | Physical Chemistry I | 4 |
| CHEM | 3222K | Physical Chemistry II | 4 |
| CHEM | 3231 | Intermediate Inorganic Chemistry I | 3 |
| CHEM | 3250K | Biochemistry | 4 |
| CHEM | 4100K | Instrumental Analysis | 4 |
| CHEM | 4110 | Chemistry Literature | 1 |
| CHEM | 4111 | Junior Seminar | 1 |
| CHEM | 4120 | Senior Research I | 1 |
| CHEM | 4130K | Senior Research II | 3 |
| PHYS | 2100 | Computer Applications | 3 |

Electives (including at least one 3 hr. class outside the department) 12

**Total 60**

**Education**

**PROGRAM OF STUDY FOR THE BACHELOR OF**

**SCIENCE DEGREE IN CHEMISTRY**

**Freshman Year Fall Spring**

**Sciences &**

**Health**

**Professions**

**Graduate**

**School**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ASU | 1200 | Freshman Seminar & Service to Leadership | 3 |  |
| ENGL | 1101 | English Composition I | 3 |
| ENGL | 1102 | English Composition II |  | 3 |
| MATH | 1113 | Pre-Calculus | 3 |  |
| MATH | 1211 | Calculus I |  | 4 |
| CHEM | 1211K | General Chemistry I | 4 |  |
| CHEM | 1212 K | General Chemistry II |  | 4 |
| PHYS | 2100 | Computer Applications |  | 3 |
| CORE E |  | Social Sciences | 3 |  |
| HIST | 1002 | Intro. to African Diaspora |  | 2 |
| **Totals** |  |  | **16** | **16** |

**Sophomore Year Fall Spring**

**Course**

**Descriptions**

**Personnel&**

**Index**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ENGL | 2111 | World Literature I |  | 3 |
| PEDH |  | Physical Education Choice I |  | 1 |
| PHYS | 2221K | Principles of Physics I |  | 4 |
| CHEM | 2301K | Organic Chemistry I | 4 |  |
| CHEM | 2302K | Organic Chemistry II |  | 4 |
| CHEM | 2351K | Quantitative Analysis I | 4 |  |
| CHEM | 2352K | Quantitative Analysis II |  | 4 |
| MATH | 2212 | Calculus II | 4 |  |
| Area C |  | Humanities/Fine Arts | 3 |  |
| PEDH |  | Physical Education Choice I | 1 |  |
| **Total** |  |  | **16** | **16** |

2008-2012 Undergraduate Catalog

**Chemistry**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Junior Year** |  |  | **Fall** | **Spring** |
| CHEM | 3221K | Physical Chem. I | 4 |  |
| CHEM | 4110 | Chemical Literature | 1 |  |
| Core E |  | Social Sciences (3) I |  | 3 |
| Core E |  | Social Sciences |  | 3 |
| Core E |  | Social Sciences or CHEM 2351K | 3 |  |
| BIOL | 2111K | Biology I |  | 4 |
| MATH | 2213 | Calculus III | 4 |  |
| PHYS | 2222K | Principles of Physics II | 4 |  |
| COMM | 1100 | Fundamentals of Public Speaking | 3 |  |
| PEDH | Choice |  | 1 |  |
| CHEM | 4111 | Junior Seminar I |  | 1 |
| **Total**  **Personnel &Index**  **Sciences &**  **Health**  **Professions**  **Course**  **Descriptions**  **Graduate**  **School**  **Education**  **Business**  **Arts & Humanities**  **Albany State State** |  |  | **16** | **15** |
| **Senior Year** | **Fall** | **Spring** |  |  |
| CHEM | 3222K | Physical Chemistry II | 4 |  |
| CHEM | 3231 | Intermediate Inorganic I |  | 3 |
| CHEM | 4100K | Instrumental Analysis |  | 4 |
| CHEM | 4120 | Senior Research I | 1 |  |
| CHEM | 4130K | Senior Research II |  | 3 |
| CHEM | 3250K | Biochemistry | 4 |  |
| Electives | Core F |  | 6 |  |
| Electives | Core F |  |  | 6 |
| **Totals** |  |  | **15** | **16** |
| **Total** |  |  |  | **126 hrs** |