|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **BS Chemistry** | | | | | | | | |
| **Arkansas State University - Jonesboro** | | | | | | | | |
| **Degree:  Bachelor of Science** | | | | | | | | |
| **Major:  Chemistry – Pre-Health Profession Studies** | | | | | | | | |
| **2019-2020** | | | | | | | | |
| Students requiring developmental course work based on low entrance exam scores (ACT, SAT, ASSET, COMPASS) may not be able to complete this program of study in eight (8) semesters.  Developmental courses do not count toward total degree hours.  Students having completed college level courses prior to enrollment will be assisted by their advisor in making appropriate substitutions.   In most cases, general education courses may be interchanged between semesters.    A minimum of 45 hours of upper division credit (3000-4000 level) is required for this degree.  Mandatory state and institutional assessment exams will be required during your degree program.  Failure to participate in required assessments may delay graduation. | | | | | | | | |
| **Year 1** | | | |  | **Year 1** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| **CHEM 1013** | General Chemistry I | **3** | x |  | **CHEM 1023** | General Chemistry II | **3** |  |
| **CHEM 1011** | Laboratory for General Chemistry I | **1** | x |  | **CHEM 1021** | Laboratory for General Chemistry II | **1** |  |
| **PHSC 1003** | Making Connections in Chemistry and Physics (FYE) | **3** |  |  | **CHEM 2002** | Computers in Chemistry | **2** |  |
| **ENG 1003** | Composition I | **3** | x |  | **MATH 2214** | Calculus II | **4** |  |
| **MATH 2204** | Calculus I | **4** | x |  | **ENG 1013** | Composition II | **3** | x |
| **elective** | elective | **1** |  |  | **elective** | elective | **2** |  |
| **Total Hours** |  | **15** |  |  | **Total Hours** |  | **15** |  |
| **Year 2** | | | |  | **Year 2** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| **CHEM 3103** | Organic Chemistry I | **3** |  |  | **CHEM 3113** | Organic Chemistry II | **3** |  |
| **CHEM 3101** | Laboratory for Organic Chemistry I | **1** |  |  | **CHEM 3111** | Laboratory for Organic Chemistry II | **1** |  |
| **CHEM 2004** | Descriptive Inorganic Chemistry | **4** |  |  | **PHYS 2044** | University Physics II | **4** |  |
| **PHYS 2034** | University Physics I | **4** |  |  | **CHEM 3054** | Quantitative Analysis | **4** |  |
| **MATH 3254** | Calculus III | **4** |  |  | **Gen Educ** | General education required course | **3** | x |
| **Total Hours** |  | **16** |  |  | **Total Hours** |  | **15** |  |
| **Year 3** | | | |  | **Year 3** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| **CHEM 3124** | Physical Chemistry I | **4** |  |  | **CHEM 3134** | Physical Chemistry II | **4** |  |
| **BIOL 2013** | Biology of the Cell | **3** | x |  | **CHEM 4204** | Inorganic Chemistry | **4** |  |
| **BIOL 2011** | Laboratory for Biology of the Cell | **1** | x |  | **CHEM 4243** | Biochemistry | **3** |  |
| **BIOL 1303** | Biology of Animals | **3** | x |  | **CHEM 4273** | Research in Chemistry | **3** |  |
| **BIOL 1301** | Laboratory for Biology of Animals | **1** | x |  | **elective** | elective | **1** |  |
| **Gen Educ** | General education required course | **3** | x |  |  |  |  |  |
| **Total Hours** |  | **15** |  |  | **Total Hours** |  | **15** |  |
| **Year 4** | | | |  | **Year 4** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| **CHEM 4224** | Instrumentation | **4** |  |  | **CHEM 4281** | Chemistry Seminar | **1** |  |
| **Gen Educ** | General education required course | **3** | x |  | **Gen Educ** | General education required course | **3** | x |
| **Gen Educ** | General education required course | **3** | x |  | **elective** | elective | **2** |  |
| **Gen Educ** | General education required course | **3** | x |  | **elective** | Biology elective | **8** |  |
| **elective** | elective | **2** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Total Hours** |  | **15** |  |  | **Total Hours** |  | **14** |  |
|  |  |  |  |  |  |  |  |  |
| **Total Jr/Sr Hours** | |  |  |  | **Total Degree Hours** | | **120** |  |
|  |  |  |  |  |  |  |  |  |
| **Graduation Requirements:** | | | | | | | | |
| Completion of HIST 2763 or HIST 2773 or POSC 2103 | | | | | | | | |
| English Proficiency (Grade of C or better in ENG 1003 and ENG 1013) | | | | | | | | |
| 2.00 GPA in Major | | | | | | | | |
| 2.00 GPA at ASU | | | | | | | | |
| 2.00 GPA Overall | | | | | | | | |
| Maximum of 31 credit hours via correspondence/extension/examination//PLA/Military/CLEP (30 hrs) or similar means | | | | | | | | |
| 45 JR/SR Hours after completing 30 hours | | | | | | | | |
| 120 Total Credit Hours | | | | | | | | |
| 18 of last 24 hours must be ASU-Jonesboro courses | | | | | | | | |
| Minimum of 57 hours from 4-year institutions | | | | | | | | |
| 32 Resident Hours if completing second degree | | | | | | | | |

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