Suggested Four-Year Plan of Study BIOLOGY AND CHEMISTRY



credits in LA&S disciplines for that minor)

There may be major courses that have been

approved to fulfill up to 3 General Education requirements (at least 9 credits). Varies by

General Education: MAJ

major and concentration.

Chemistry B.S. with Initial Licensure in Secondary Education (with Minor in Middle School and Secondary Education)

| | FRESHMAN YEAR | SOPHMORE YEAR | | | |
|--|---|---|--|----------------------|--|
| Fall Semester 14 | | Credits | Fall Semester | | 15 Credits |
| CHEM 1300 | General Chemistry I* | 4 | CHEM 2000 | | emistry I |
| ENGL 1100 | Writing I | 3 | BIOL 1800 | • | ology I (SI) |
| MATH 1300 | Precalculus | 4 | MATH 2400 | | |
| FYE 1015 | First Year Experience | 3 | EDUC 2011 | | Education (5-12)** |
| Functions Accupla (Algebraic Prepare | ry requires a 'passing' score on Advanced Algebra and Icer placement exam OR successful completion of MATH 0500 ation) prior to enrollment. To continue as a Chemistry major, rn a grade of 2.0 or higher in General Chemistry I and II. | | Spring Sem | · | 14 Credit: |
| Spring Semester 17 | | Credits | CHEM 2100 | Organic Che | emistry II |
| | • | | CHEM 2400 | General Ana | alytical Chemistry |
| CHEM 1400 | General Chemistry II* | | EDUC 2012 | Teaching th | ne Adolescent Learner (5-12)** |
| ENGL 1200 | Writing II | | | • | loration |
| MATH 2300 | Calculus I (QR) | | ** These courses are required for completion of the minor in Middle School and Secondary | | |
| CHEM 1860 | Introduction to Education (5-12)** | | Education. Students must complete this minor for the Initial Licensure in Secondary Education. The minor fulfills the Integration requirement for the Chemistry major. | | |
| | Gen Ed/WS | 3 | 2000000111 1110 1111101 1 | annis are integrated | on equilibrium on the chemistry major. |
| | JUNIOR YEAR | | SENIOR YEAR | | |
| Fall Semester 16 0 | | Credits | Fall Semester | | 15 Credits |
| CHEM 3030 | Biochemistry I | 3 | CHEM 4850 M | Methods of Tea | aching Chemistry II**3 |
| PHYS 2300 | General Physics I (PL) | = | EDUC 3122 S | Sheltered Engli | ish Immersion3 |
| CHEM 3600 | Descriptive Inorganic Chemistry | | (| Gen Ed/Explora | ation 3 |
| SPED 3800 | Inclusive Instruction (5-12)** | | Gen Ed/Exploration3 | | |
| - | Gen Ed/Exploration | | C | Gen Ed/Explora | ation 3 |
| Spring Semester 17 (| | Credits | Spring Semester | | 12 Credits |
| CHEM 3200 | Physical Chemistry I | | | | inar 3 |
| CHEM 4750 | Chemistry Seminar | | | Practicum in a S | Secondary School I4.5 |
| PHYS 2400 | General Physics II | | | | Secondary School II4.5 |
| CHEM 3015 | Methods of Teaching Chemistry I** | | • • | | |
| CLIFIM 2012 | | | | | |
| | Gen Ed/Exploration | 3 | | | |
| | | General Education: Exploration | | Ger | neral Education: Integration |
| | | 3 credits Civic Learning (CV) | | | redits AIA (3 of which must be Integrative |
| General Education: Foundation | | = | credits Diverse Perspectives (DP) | | h Impact Practice - IHIP) |
| 3 credits Reading and Information Literacy (R and IL): First Year Experience | | 3 credits Ethical Reasoning (ER) 3 credits Fine Arts Expression and Analysis (FA) | | OR Sis (FA) Mir | nor (professional majors completing a |
| 3 credits Writing (W): Writing I 3 credits Writing and Information Literacy (W and IL): Writing II | | 3 credits Historical Inquiry and Analysis (HI) | | | nor or second major must include at least 9 dits in LA&S disciplines for that minor) |

Suggested 4-year plan of study. Completion of 120 credits required for graduation.

3 credits World Languages, Speaking and Listening (WS)

3 credits Quantitative Reasoning (QR) (MATH)

3 credits Literary Inquiry and Analysis (LI)

3 credits Procedural and Logical Thinking (PL)

3 credits Scientific Inquiry and Analysis (SI)

3 credits Personal Wellness (PW)