|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **2017-2018** | **Bachelor of Arts (B.S.) Degree - Chemistry Major (5-12 Teaching Endorsement)**  *Graceland’s teacher education program is noted for excellence in providing a technology emphasis, psychological and sociological foundations, and learning theory. Beginning in the sophomore year, course work is balanced by extensive field experiences in both public and private schools.* **Name:       ID:** | | | | | | | |
| **Courses in BOLD are required by this major**  **Courses in regular type are to fulfill essential education learning requirements and DO NOT have to be taken the specific semester stated.**  ***Courses in ITALIC are strongly recommended***  **+denotes courses offered only every other year**  **ALSO REQUIRED FOR GRADUATION**   * **120 credit hours** * **39 Upper division credits** * **2.75 GPA** * **Completion of all major & essential education learning requirements** |
| **First Year Fall** | **Learning Outcome** | **Sem Hours** | **Date Met** | **First Year Spring** | **Learning Outcome** | **Sem Hours** | **Date Met** |
| ENGL1100 Discourse I OR  ENGL1120 Honors Discourse I | 1a | **3** |  | **MATH1520 Calc II** |  | **3** |  |
| **CHEM1440/1441 Prin Chem. II w/lab** |  | **4** |  |
| **MATH1510 Calculus I** | **6b** | **3** |  | **Histories** | **5d** | **3** |  |
| **PSYC2250 Developmental Psych** |  | **3** |  |
| ***PSYC1300 Introductory Psych*** | 5c | **3** |  | **EDUC1400 Intro to Ed.** |  | **3** |  |
| INTD1100 Critical Thinking Lib Arts-Sciences | 2 | **3** |  | **EDUC1410 Clinical Experience Lab** |  | 1 |  |
| **CHEM1430/1431 Prin Chem I w/lab** |  | **4** |  |  |  |  |  |
| **Total Hours** |  | **16** |  | **Total Hours** |  | **17** |  |
| **Notes:** | | | | | | | |
| **Second Year Fall** | **Learning Outcome** | **Sem**  **Hours** | **Date Met** | **Second Year Spring** | **Learning Outcome** | **Sem Hours** | **Date Met** |
| **CHEM3410/3411 Org Chem I w/lab** |  | **4** |  | **CHEM3420/3421 Org Chem II w/lab** |  | **4** |  |
| **PHYS1410 Elements of Phys I w/lab** |  | **4** |  | **PHYS1420 Elements of Phys II w/lab** |  | **4** |  |
| ENGL2100 Discourse II OR  ENGL2120 Honors Discourse II | 1b | **3** |  | **EDUC3580 Psych of Excep Child/Adult** |  | **3** |  |
| Math | 6b | **3** |  | Global Learning | 4 | 3 |  |
| *BIOL1400 Unity of Life\** | 6a | 3 |  | *BIOL2100 Fund. Of Cell Bio & Genetics (prereq for CHEM4310)* |  | 3 |  |
| **EDUC2420 Teacher Ed. Entry Wkshp** |  | 0 |  |  |  |  |  |
| **Total Hours** |  | **17** |  | **Total Hours** |  | **17** |  |
| **Notes: Students with a 2.5 GPA may petition to take EDUC3580 during the sophomore year. It can also be taken the summer prior to their junior year online.** | | | | | | | |
| **Third Year Fall**  ***(check your degree audit!)*** | **Learning Outcome** | **Sem**  **Hours** | **Date Met** | **Third Year Spring** | **Learning Outcome** | **Sem Hours** | **Date Met** |
|  |  |  |  | **CHEM3300+ Analytical Chem** |  | **4** |  |
| **CHEM3610+ Physical Chem I (odd fall)** |  | **4** |  | **CHEM3110 Chem Seminar I** |  | **1** |  |
| ENGL3100 Discourse III | 1c | **3** |  | **SCIE3360 Methods of Teaching Science/Math** |  | **3** |  |
| **CHEM4310 Biochemistry** |  | **4** |  | **CHEM3620 Physical Chem II** |  | **4** |  |
| **EDUC3590 Ed Psych & Measurement** |  | **3** |  | **CHEM4120 Research I** |  | **1** |  |
| **EDUC3100 Human Relations for Ed** | 3 | **3** |  | Humanities | 5b | 3 |  |
|  |  |  |  | **EDUC3720 Practicum** |  | **2** |  |
| **Total Hours** |  | **17** |  | **Total Hours** |  | **16-18** |  |
| **Notes:** | | | | | | | |
| **Fourth Year Fall**  ***(apply for graduation!)*** | **Learning Outcome** | **Sem**  **Hours** | **Date Met** | **Fourth Year Spring** | **Learning Outcome** | **Sem Hours** | **Date Met** |
| **CHEM4110 Chem Seminar II (arranged)** |  | **1** |  | **EDUC4420 Sec. Student Teaching** |  | **14** |  |
| **CHEM4130 Research II** |  | **1** |  |  | | | |
| **CHEM4330+ Inst. Analysis** *(even fall)* |  | **4** |  |
| **EDUC3520 Secondary Methods** |  | **3** |  |
| **EDUC4230 Classroom Management** |  | **3** |  |
| Arts | 5a | 3 |  |
| **EDUC4100 LEP** |  | **3** |  |
| **Total Hours** |  | **18** |  | **Total Hours** |  | **14** |  |
| **Notes: EDUC3720 Sec. Education Practicum 2 s.h. can also be taken the two weeks immediately prior to student teaching.** | | | | | | | |
| **Updated:**  **8/11/17** | **\* BIOL1400 Fund. Of Bio Science is recommended, but not required for the major.**  *NOTE: Application to the Teacher Education Program should be submitted during EDUC2420.*  **DISCLAIMER: These plans are to be used as guides only and are subject to changes in curriculum requirements. Refer to your Graceland Catalog for complete and accurate information. Some courses listed on the plans may have prerequisites that have not been stated. The student has the ultimate responsibility for scheduling and meeting the graduation requirements.** | | | | | | | |