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| --- | --- |
| **2018-2019** | **Bachelor of Science (B.S.) Degree – Biology Major with 5-12 teaching endorsement Name:** **ID:**  |
| **Courses in BOLD are required by this major****Courses in regular type are to fulfill essential education requirements and DO NOT have to be taken the specific semester stated. Four of these must be theme-based courses from your chosen Essential Education Curriculum theme.*****Courses in ITALIC are strongly recommended*****+denotes courses offered only every other year****ALSO REQUIRED FOR GRADUATION*** **120 credit hours**
* **39 Upper division credits**
* **2.00 GPA**
* **Completion of all major & essential education requirements**

**Updated:****8/14/2018** |
| **First Year Fall** | **Learning Outcome** | **Sem Hours** | **Date Met** | **First Year Spring** | **Learning Outcome** | **Sem Hours** | **Date Met** |
| **BIOL1500 Fund of Ecol & Evol** |  | **3** |  | **BIOL1520 Fund of Org. Biology** |  | **4** |  |
| ENGL1100 Discourse I ORENGL1120 Honors Discourse I | 1a | **3** |  | Essential Education Elective - PSYC1300       | 5c | 3 |  |
| **CHEM1430/1431 Prin. Chem. I w/lab** |  | **4** |  | **CHEM1440/1441 Prin. Chem. II w/lab** |       | **4** |  |
| **\*MATH1510 Calculus I or MATH1330 Elementary Functions or MATH1280 College Algebra** | 6b | 3 |  | Essential Education Elective       |       | 3 |  |
| INTD1100 Critical Thinking in Arts & Sciences | 2 | 3 |  | EDUC1400/1410 Introduction to Eduction and Clinical Lab |  | **4** |  |
| **Total Hours** |  | **16** |  | **Total Hours** |  | **18** |  |
| **Notes: Next year, think about student leadership positions, or joining a club or organization on campus (Science club, etc.)** |
| **Second Year Fall** | **Learning Outcome** | **Sem****Hours** | **Date Met** | **Second Year Spring** | **Learning Outcome** | **Sem Hours** | **Date Met** |
| **Biology elective \*\* - BIOL2440 Plant Biology or BIOL2430 Animal**  |  | **4** |  | **BIOL2100 Fund of Cell Bio & Gen** |  | **4** |  |
| **CHEM3410/3411 Org Chem I w/lab** |  | **4** |  | **CHEM3420/3421 Org Chem II w/lab** |  | **4** |  |
| **PHYS1410 w/lab** |  | **4** |  | Essential Education Elective PSYC2250 | 5c | *3* |  |
| ENGL2100 Discourse II ORENGL2120 Honors Discourse II | 1b | **3** |  | **PHYS1420 w/lab** |  | **4** |  |
| EDUC2420 Entry Workshop |  | **0** |  | EDUC3590 Educational Psych |  | **3** |  |
| EDUC3580 Educ of Exceptional Child/Adults |  | **3** |  |  |  |  |  |
| **Total Hours** |  | **18** |  | **Total Hours** |  | **18** |  |
| **Notes: Research and apply for an internship fall of the Junior year to be completed over the summer! Connect with your faculty advisor for assistance with navigating this process. Also check in with faculty regarding any standardized tests/requirements for grad school.** |
| **Third Year Fall*****(check your degree audit!)*** | **Learning Outcome** | **Sem****Hours** | **Date Met** | **Third Year Spring** | **Learning Outcome** | **Sem Hours** | **Date Met** |
| Essential Education Elective       |       | **3** |  | Essential Education Elective      |       | **3** |  |
|  **1 Biology elective\*\***  |  | **3-4**  |  |  **Biology electives\*\***  |  | **3-4** |  |
| ENGL3100 Discourse III  | 1c | 3 |  |  Essential Education elective      |       | 3 |  |
| **\*MATH1380 Introduction to Statistics** | 6b | **3** |  | EDUC3100 Human Relations | **3** | **3** |  |
| EDUC3520 General Secondary Methods |  | **3** |  |  |  |  |  |
| **Total Hours** |  | **15-16** |  | **Total Hours** |  | **12-13** |  |
| **Notes:**  |
| **Fourth Year Fall*****(apply for graduation!)*** | **Learning Outcome** | **Sem****Hours** | **Date Met** | **Fourth Year Spring** | **Learning Outcome** | **Sem Hours** | **Date Met** |
| **BIOL4110 Biology Seminar** |  | **1** |  | **BIOL/CHEM4130 Research II** |  | **1** |  |
| **BIOL/CHEM4120 Research I** |  | **1** |  | **Biology elective\*\*** |  | **3-4**  |  |
| **Biology Elective\*\***  |  | **3 - 4** |  | EDUC4230 Classroom Management  |       | 3 |  |
| Essential Education Elective       |       | 3 |  | EDUC4100 LEP |  | **3** |  |
| SCIE3360 Science and Math Methods |  | **3** |  | EDUC3720 Practicum |  | 2 |  |
|  |  |  |  |  |
| **Total Hours** |  |  |  | **Total Hours** |  | **12-14** |  |
| **Fifth Year Fall** |  |  |  |  |  |  |  |
| **EDUC4420 Secondary Student Teaching**  |  | **14** |  |  |  |  |  |
| **Total Hours**  |  | **14** |  |  |  |  |  |
| 7 essential education electives meeting all learning outcomes 3-6. \***Two math courses are required:** MATH1380 **and** *MATH1510 or MATH1330 or MATH1280* \*\* Choose five of the following courses with at least one in each of the three areas (17-20) **AREA 1**: BIOL2360, 2430, 2440, 3400/3401 **AREA 2**: BIOL3310, 3500, 4310, 4450, 4460 **AREA 3**: BIOL3420, 3440, 4400 **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.** |
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