|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Bachelor of Science (B.S.) Degree:**  **Biology** | |  | | | | | | |
| **2016 - 2017**  **Courses in BOLD are required by this major**  **Courses in regular type are to fulfill general education requirements and DO NOT have to be taken the specific semester stated.**  ***Courses in ITALIC are strongly recommended***  **ALSO REQUIRED FOR GRADUATION**   * **120 credit hours** * **39 Upper division credits** * **2.00 GPA** * **Completion of all major & gen ed requirements** |  | |  | | | | | | |
|  | **First Year Fall** | **LO** | | **Sem Hours** | **Date Met** | **First Year Spring** | **LO** | **Sem Hours** | **Date Met** |
|  | **BIOL1500 Fund of Ecol & Evol** |  | | **3** |  | **BIOL1520 Fund of Org. Biology** |  | **4** |  |
|  | ENGL1100 Discourse I or ENGL1440 English Honors |  | | **3** |  | Essential Education Elective |  | **3** |  |
|  |  |  | |  |  | **CHEM1440/1441 Prin. Chem. II w/lab** |  | **4** |  |
|  | **MATH1510 Calculus I or MATH1330 Elementary Functions or MATH1280 College Algebra** |  | | 3 |  | Essential Education Elective |  | 3 |  |
|  | **CHEM1430/1431 Prin of Chem I w/lab** |  | | **4** |  |  | | |  |
|  | INTD1100 Critical Thinking in Arts & Sciences\* |  | | **3** |  |  | | |  |
|  | **Total Hours** |  | |  |  | **Total Hours** |  |  |  |
|  | **Notes: Next year, think about student leadership positions, or joining a club or organization on campus (Science club, etc.)** | | | | | | | | |
|  | **Second Year Fall**  ***(consider a WT)*** | **LO Goal** | | **Sem**  **Hours** | **Date Met** | **Second Year Spring** | **LO Goal** | **Sem Hours** | **Date Met** |
|  | **BIOL2440 Plant Biology or BIOL2430 Animal or** Essential Education Elective |  | | **3-4** |  | **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 |  | *3* |  |
|  | ENGL2100 Discourse II |  | | **3** |  | **PHYS1420 w/lab** |  | **4** |  |
|  |  |  | |  |  |  | | |  |
|  | **Total Hours** |  | |  |  | **Total Hours** |  |  |  |
|  | **Notes:\*\*\* Research and apply for an internship fall of the Junior year to be completed over the summer! Connect with your faculty advisor and/or the CAP center 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!)*** | **LO Goal** | | **Sem**  **Hours** | **Date Met** | **Third Year Spring** | **LO Goal** | **Sem Hours** | **Date Met** |
| **\* See Catalog for specific information**  **+denotes courses offered only every other year** | **Biology elective** or Essential Education Elective |  | | **3 - 4** |  | Upper division Essential Education Elective |  | **3** |  |
|  | **Biology elective** |  | | **3-4** |  | **2-3 Biology electives\*\*** |  | **6-12** |  |
|  | ENGL3100 Discourse III |  | | 3 |  | Upper division Essential Education elective |  | 3 |  |
|  | **MATH1380 Introduction to Statistics** |  | | **3** |  |  |  |  |  |
|  |  |  | |  |  |  |  |  |  |
|  | **Total Hours** |  | |  |  | **Total Hours** |  |  |  |
|  | **Notes: Connect with your faculty advisor in the fall of the senior year to learn more about graduate school application and for additional guidance with any required standardized test for professional school. Many schools require applications to be completed early in the year.** | | | | | | | | |
|  |  | | | | | | | | |
|  | **Fourth Year Fall**  ***(apply for graduation!)*** | **LO Goal** | | **Sem**  **Hours** | **Date Met** | **Fourth Year Spring** | **LO Goal** | **Sem Hours** | **Date Met** |
|  | **BIOL4110 Biology Seminar** |  | | **1** |  | **BIOL/CHEM4130 Research II** |  | **1** |  |
|  | **BIOL/CHEM4120 Research I** |  | | **1** |  | Upper division Essential Education Elective |  | 3 |  |
|  | **Biology Elective\*** |  | | **3 - 4** |  | *Strongly recommended biology course\*\** |  | 3 - 4 |  |
|  | Upper division Essential Education Elective |  | | 3 |  | Upper division Essential Education Elective |  | 3 |  |
|  | Upper division Essential Education Elective |  | | 3 |  | *Strongly recommended biology course\*\** |  | 3 - 4 |  |
|  | *Strongly recommended biology course\*\** |  | | *3 - 4* |  |  | | | |
|  | **Total Hours** |  | |  |  | **Total Hours** |  |  |  |
|  | **Notes: Only 7 Essential Education courses are required for graduation. It is recommended that you take Biology electives\*\* or strongly recommended biology courses\*\*\* when possible.** | | | | | | | | |
| **Updated:**  **10/26/2017** |  | | | | | | | | |
|  | **\* Graduation requirement for all first time freshmen**  **\*\* Choose five of the following courses with at least one in each of the three areas. (13-16 sh) AREA 1:** BIOL2360, 2430, 2440, 3400 **AREA 2:** BIOL3310, 3500, 4310, 4450, 4460 **Area 3:** BIOL3420, 3440, 4400  \*\*\* **Two math courses are required:** MATH1380 **and** *MATH1510 or MATH1330 or MATH1280*  *There are several bio courses that are also strongly recommended:* ***Professional School or Graduate School recommendations:*** *ATHT2500, BIOL2360, 3120, 3310, 3420, 3440, 3500, 4310, 4400, 4450, 4460. Take 3 or more biology electives depending on field of interest.*  ***Please meet with your faculty advisor to discuss these recommended courses.***  *\*\*\*\*If necessary, students may choose to work with biology faculty to arrange taking BIOL4120 Research I for spring of junior year and BIOL4130 Research II for fall of senior year. Or depending on the research topic, Research I & II may be arranged for fall of senior year if research project can be completed in one semester.*  **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.** | | | | | | | | |
| **Name:**  **ID:** |  | | | | | | | | |
|  |  | | | | | | | | |

