|  |  |
| --- | --- |
| **2021-2022** | **Bachelor of Science (B.S.) Degree – Data Science Major****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****EE= Essential Education** **ALSO REQUIRED FOR GRADUATION*** **120 credit hours**
* **39 Upper division credits**
* **2.00 GPA**
* **Completion of all major & essential education requirements**
 |
| **First Year Fall (’21)** | **EE** **Learning Outcome** | **Sem. Hours** | **Date Met** | **First Year Spring (’22)** | **EE Learning Outcome** | **Sem. Hours** | **Date Met** |
| **MATH1510 Calculus I** | LO 6 (b) | **4** |  | **MATH1520 Calculus II** |  | **4** |  |
| ENGL1110 Discourse I ORHONR1010 Honors 101 | LO 1 (a) | **3** |  | **MATH1380 Introduction to Statistics** | **LO 6(b)** | **3** |  |
| History       | LO 5 (d) | 3 |  |
| **CSIT1100 Principles of Computing** |  | **3** |       | **CSIT1200 Data Structures** |  | 3 |  |
| Elective       |  | 3 |  |
| **DSCI 1500 Beginning Data Science**      |  | 3 |       | Humanities | LO 5 (b) | 3 |  |
| INTD1100 Critical Thinking in Arts & Sciences | LO 2 | 3 |  |  |
| **Total Hours** |  |  |  | **Total Hours** |  |  |  |
| **Notes:**  |
| **Second Year Fall (’22)** | **EE Learning Outcome** | **Sem.****Hours** | **Date Met** | **Second Year Spring (’23)** | **EE Learning Outcome** | **Sem. Hours** | **Date Met** |
| **MATH2510 Calculus III** |  | **4** |  | **CSIT 3300 Database Concepts and SQL** |  | **3** |  |
| **MATH2350 Discrete Math** |  | **3** |  |  |  | 3 |  |
| Science       | LO 6 (a) | 3 |       | Arts       | LO 5 (a) | 3 |       |
| ENGL2100 Discourse II ORHONR2010 Honors 201 | LO 1 (b) | 3 |       | Ethical Thinking & Action       | LO 3 | 3 |  |
|  |  |  |  |  |  |  |  |
|  |  |
| **Total Hours** |  |  |  | **Total Hours** |  |  |  |
| **Notes: Be sure to connect with your faculty advisor early on during the third year to discuss internship opportunities! Internships need to be approved in order to receive academic credit.**  |
| **Third Year Fall (’23)*****(Check your degree audit!)*** | **EE Learning Outcome** | **Sem.****Hours** | **Date Met** | **Third Year Spring (’24)** | **EE Learning Outcome** | **Sem. Hours** | **Date Met** |
| CSIT/MATH3710 Internship in Data Science (suggested course) |  | **3** |  | **MATH3340+ Linear Algebra** |  | **3** |  |
|  |  |  |  | **MATH4380 Advanced Statistics**  |  | **3** |  |
| Global Learning       | LO 4 | 3 |  |
| Elective       |  | **3** |  | ENGL3100 Discourse III  | LO 1 (c) | 3 |  |
|  |  |  |  | UD Elective       |  | 3 |  |
|  |  |  |  |  |
| **Total Hours** |  |  |  | **Total Hours** |  |  |  |
| **Notes:** |
| **Fourth Year Fall (’24)*****(Apply for graduation!)*** | **EE Learning Outcome** | **Sem.****Hours** | **Date Met** | **Fourth Year Spring (’25)** | **EE Learning Outcome** | **Sem. Hours** | **Date Met** |
| **MATH3200 Probability and Stochastic Processes** |  | **3** |  | **CSIT4300 Cluster Algorithms** |  | 3 |  |
| **CSIT4200 Machine Learning** |  | **3** |  | UD Elective       |  | 3 |  |
| Social Science      | LO 5 (c) | 3 |  | *CSIT/MATH4370 Mathematical Modeling*  |  | 3 |  |
| UD Elective |  | 3 |  | Elective       |  | 3 |  |
|  |  |  |  |  |  |  |  |
| **Total Hours** |  |  |  | **Total Hours** |  |  |  |
| **Notes:** |
| **Updated: 06/9/2021** | **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.** |

