

# 2022-2023 Data Analytics BS Degree Plan

Student name: \_\_\_\_\_ UMID: \_\_\_\_\_ Date: \_\_\_\_\_  
 Advisor name: \_\_\_\_\_ Concentration: **None**



**The Purpose of General Education is to Gain:**

- Knowledge of Human Cultures and the Physical and Natural World
- Intellectual and Practical Skills

- Personal and Social Responsibility
- Integrative and Applied Learning

**Key Courses For General Education (50 hours)**

1. **Written Composition (6)**  
 Choose: ENG 101 or 103. 3\_\_\_\_  
 Choose: ENG 102 or 104. 3\_\_\_\_
2. **Humanities & Fine Arts (18)**  
 Choose one: ENG 231, 233, 232 or 234.\* 3\_\_\_\_  
 \*Students must complete a six-hour sequence in either History or Literature. Students may complete both sequences.  
 Choose: COMS 101 or 102. 3\_\_\_\_  
 Choose one Fine Arts: ART 100, 120, 220; 3\_\_\_\_  
 MC 100, 325; MUS 121 or 122, 125, 211, 255, 342; THEA 120 or 122.  
 Choose: PHIL 180. 3\_\_\_\_  
 Choose: PHIL 220 or 221. 3\_\_\_\_  
 Choose one of the following (not used above):  
 ART 100, 120, 220; ENG 231 or 233, 232 or 234; 3\_\_\_\_  
 FRN 101, 102, 150, 201, 202, 250; SPN 101 or 103, 102 or 104, 150, 201, 202, 250; GER 101, 102, 201, 202; MC 100, 325; MUS 121 or 122, 125, 211, 255, 342; PHIL 110 or 111, 230, 280, 290; THEA 120 or 122.
3. **Natural Sciences & Mathematics (11)**  
 Choose one lab science from two different disciplines:  
 BIO 100, 105-107; CHEM 100-102, 121, 122; 4\_\_\_\_  
 ES 100; GEOL 110, 115; PHYS 100 or higher. 4\_\_\_\_  
 Choose: MATH 147 3\_\_\_\_
4. **History, Social & Behavioral Sciences (12)**  
 Choose one History: HIST 101, 103, 102 or 104.\* 3\_\_\_\_  
 \*Students must complete a six-hour sequence in either History or Literature. Students may complete both sequences.  
 Choose one of the following not used above: 3\_\_\_\_  
 EC 231, 232; FCS 291, 402; GEOG 231; HIST 101 or 103; 102 or 104; POS 200, 250; SWK 203, 260, 322.  
 Choose: SOC 101 or 102. 3\_\_\_\_  
 Choose: PSYC 201 or 202. 3\_\_\_\_
5. **Personal Development (3)**  
 Choose: MIS 161. 3\_\_\_\_

**Data Analytics Degree Requirements (45 hours)**

- |  |       |
|--|-------|
| INFM 171 (Social Informatics)                  | 3____ |
| INFM 241 (Intro to Informatics and Computing)  | 3____ |
| INFM 242 (Logical Foundations for Informatics) | 3____ |
| INFM 245 (Computer Programming I)              | 3____ |
| INFM 246 (Computer Programming II)             | 3____ |
| INFM 347 (Human Computer Interaction)          | 3____ |
| INFM 348 (Information Representation)          | 3____ |
| INFM 349 (Informatics Project Management)      | 3____ |
| INFM 350 (Database and Applications Security)  | 3____ |
| INFM 370 (Data Structures and Algorithms I)    | 3____ |
| INFM 371 (Data Structures and Algorithms II)   | 3____ |
| INFM 450 (Data Analysis and Mining I)          | 3____ |
| INFM 451 (Data Analysis and Mining II)         | 3____ |
| INFM 455 (Information Infrastructure I)        | 3____ |
| INFM 456 (Information Infrastructure II)       | 3____ |

**General Electives (18 hours)**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Minor Course Requirements (Optional)**

Title: \_\_\_\_\_ Hrs. Req. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Total Hours Required:	120
Total Hours Completed to Date:	_____
Hours Remaining for Completion:	_____
Hours Currently Registered:	_____
Hours Remaining:	_____

**Additional Requirements for Degree (7 hours)**

- Choose and complete only one requirement below:
- Bachelor of Science Requirements**  
 Choose additional 7 hours in mathematics and/or science not used toward requirement #3 above.  
 Choose: MATH 157 3\_\_\_\_  
 \_\_\_\_\_ 4\_\_\_\_

**GENERAL GRADUATION REQUIREMENTS**

- |                                   |  |
|-----------------------------------|--|
| 1. 50% of hrs in major area at UM | 5. 45 hr limit of non-traditional credit                 |
| 2. 30 hrs 300/400 at UM           | 6. 6-hr sequence in history or literature                |
| 3. 30 of last 40 hours at UM      | 7. Capstone experience within major                      |
| 4. 64 hr limit from 2-year school | 8. 2.0 or higher UM GPA and in all major and minor areas |