

# 2024-2025 Data Analytics BS Degree Plan

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



UNIVERSITY of  
MONTEVALLO

## 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, 240, 255, 342; THEA 120 or 122.  
Choose one Humanities:  
 ENG 231 or 233, 232 or 234; FRN 101, 102, 150, 201, 202, 250; SPN 101 or 103, 102 or 104, 150, 201, 202, 250; GER 101, 102, 201, 202; PHIL 110 or 111, 180, 220 or 221, 230, 280, 290; REL 110.  
Choose two 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, 240, 255, 342; PHIL 110 or 111, 180, 220 or 221, 230, 280, 290; REL 110; 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 \_\_\_\_\_  
 ESCI 100; GEOL 110, 115; PHYS 100 or higher. 4 \_\_\_\_\_  
Choose: MATH 144 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)

- |   |         |
|---|---------|
| DATA 171 (Data Analytics and Society)             | 3 _____ |
| DATA 241 (Intro to Data Analytics and Computing)  | 3 _____ |
| DATA 242 (Logical Foundations for Data Analytics) | 3 _____ |
| DATA 245 (Computer Programming I)                 | 3 _____ |
| DATA 246 (Computer Programming II)                | 3 _____ |
| DATA 347 (Intro to Website Dev. and Data Visual)  | 3 _____ |
| DATA 348 (Information Representation)             | 3 _____ |
| DATA 349 (Project Management)                     | 3 _____ |
| DATA 350 (Database and Applications Security)     | 3 _____ |
| DATA 370 (Data Structures and Algorithms I)       | 3 _____ |
| DATA 371 (Data Structures and Algorithms II)      | 3 _____ |
| DATA 450 (Data Analysis and Mining I)             | 3 _____ |
| DATA 451 (Data Analysis and Mining II)            | 3 _____ |
| DATA 455 (Information Infrastructure I)           | 3 _____ |
| DATA 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 crs 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 |