# 2023-2024 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,             3_____
   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,          3_____
   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_____

## 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_____

## Data Analytics Degree Requirements (45 hours)

| Course | Hrs |
|---|---|
| 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:                                    _____

## GENERAL GRADUATION REQUIREMENTS

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