



23/24 Suggested Course of Study

Data Analytics, BS

Freshman Year, Fall Semester

Major	DATA 171, Data Analytics & Society	3
Gen Ed	ENG 101, Composition I	3
Gen Ed	HIST 101 or 102, History of World Civ I or II	3
Gen Ed	MIS 161, Introduction to Computers	3
Gen Ed	MATH 144, Pre-Calculus Algebra	3
Total semester hours		15

Freshman Year, Spring Semester

Major	DATA 241, Intro Data Analytics & Comput.	3
Gen Ed	ENG 102, Composition II	3
Gen Ed	Humanities	3
BS Degree	MATH 157, Introduction to Statistics	3
Gen Ed	HIST 101 or 102 or Social & Behavioral Sci.	3
Total semester hours		15

Sophomore Year, Fall Semester

Major	DATA 242, Logical Found. For Informatics	3
Major	DATA 245, Computer Programming I	3
Gen Ed	COMS 101, Found. Of Oral Comm.	3
Gen Ed	ENG 231 or 232, Global Literature I or II	3
Gen Ed	PSYC 201 or 202, Foundations of Psyc.	3
Total semester hours		15

Sophomore Year, Spring Semester

Major	DATA 246, Computer Programming II	3
Gen Ed	ENG 231 or 232 or Humanities or Fine Arts	3
Gen Ed	Fine Arts course	3
Gen Ed	Science	4
Gen Ed	SOC 101, Introductory Sociology	3
Total semester hours		16

Junior Year, Fall Semester

Major	DATA 347, Intro Website Dev. & Data Visual	3
Major	DATA 348, Information Representation	3
Major	DATA 370, Data Structures & Algorithms I	3
Electives	General or Minor electives	6
Total semester hours		15

Junior Year, Spring Semester

Major	DATA 350, Database & Applications Secur.	3
Major	DATA 371, Data Structures & Algorithms II	3
Major	DATA 349, Project Management	3
Gen Ed	Humanities or Fine Arts	3
Gen Ed	Science	4
Total semester hours		16

Senior Year, Fall Semester

Major	DATA 450, Data Analysis & Mining I	3
Major	DATA 455, Information Infrastructure I	3
Electives	General or Minor elective	6
BS Degree	Mathematics or Science	4
Total semester hours		16

Senior Year, Spring Semester

Major	DATA 451, Data Analysis & Mining II	3
Major	DATA 456, Information Infrastructure II	3
Electives	General or Minor elective	3
Electives	General or Minor elective	3
Total semester hours		12

TOTAL HOURS REQUIRED FOR DEGREE 120

* Indicates the course is also used to satisfy a General Education Core requirement.

This suggested course of study is for informational purposes only and does not replace academic advising. All UM students must meet with an academic advisor before registering for future semesters. This plan contains 18 hours of general electives.

For more information, contact the department chair or click one of the links below:

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Webpage: <https://www.montevallo.edu/academics/colleges/college-of-business/undergraduate-programs/computer-informatics/>

Bulletin: <http://bulletin.montevallo.edu/>