

Data Analytics B.S. with Accounting Analytics Concentration

Data Science B.S. with Accounting Analytics Concentration Eight-Semester Program

First Year	Units	
	Fall	Spring
MATH 24004 Calculus I (ACTS Equivalency = MATH 2405) (Satisfies General Education Outcome 2.1) ¹	4	
ENGL 10103 Composition I (ACTS Equivalency = ENGL 1013) (Satisfies General Education Outcome 1.1)	3	
DASC 10003 Introduction to Data Science	3	
DASC 11004 Programming Languages for Data Science	4	
MATH 25004 Calculus II		4
ECON 21403 Basic Economics: Theory and Practice (Satisfies General Education Outcome 3.3)		3
ENGL 10303 Technical Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.2)		3
DASC 12004 Introduction to Object Oriented Programming for Data Science		4
DASC 12203 Role of Data Science in Today's World		3
Year Total:	14	17

Second Year	Units	
	Fall	Spring
DASC 25904 Multivariable Math for Data Scientists	4	
DASC 21103 Principles and Techniques of Data Science	3	
DASC 22103 Data Visualization and Communication	3	
STAT 30133 Introduction to Probability ⁴ or INEG 23203 Probability and Stochastic Processes for Industrial Engineers	3	
State Minimum Core U.S. History or Government Elective (Satisfies General Education Outcome 4.2) ²	3	
SEVI 20503 Business Foundations (Data Science Majors-only section)		3
STAT 30043 Statistical Methods ⁴ or INEG 23104 Statistics for Industrial Engineers I		3-4
State Minimum Core Natural Science with Lab Elective (Satisfies General Education Outcome 3.4) ²		4
DASC 22003 Data Management and Data Base ²		3

ACCT 20103 Accounting Principles (This is a Concentration pre-req and uses the General Elective credit hours)		3
Year Total:	16	16

Third Year	Units	
	Fall	Spring
DASC 21303 Data Privacy & Ethics (Satisfies General Education Outcome 5.1)	3	
DASC 31003 Big Data Analytics with Cloud Computing	3	
State Minimum Core Social Sciences Elective (Satisfies General Education Outcomes 3.2 and 3.3) ²	3	
State Minimum Core Natural Science with Lab Elective (Satisfies General Education Outcome 3.4) ²	4	
ACCT 20203 Accounting Principles II	3	
DASC 32003 Optimization Methods in Data Science		3
DASC 32103 Statistical Learning		3
ACCT 35303 Accounting Technology		3
State Minimum Core Fine Arts Elective (Satisfies General Education Outcome 3.1) ²		3
State Minimum Core Social Sciences Elective (Satisfies General Education Outcomes 3.3 and 4.1) ²		3
Year Total:	16	15

Fourth Year	Units	
	Fall	Spring
DASC 48902 Data Science Practicum I	2	
DASC 41103 Machine Learning	3	
DASC 41203 Social Problems in Data Science and Analytics	3	
ACCT 35403 Accounting Analytics	3	
ISYS 41903 Business Analytics and Visualization	3	
DASC 49903 Data Science Practicum II (Satisfies General Education Outcome 6.1)		3
ISYS 42903 Business Intelligence		3
Accounting Analytics Concentration Elective		3
General Education Elective ³		2-3
Year Total:	14	12

Total Units in Sequence: 120

¹ Students have demonstrated successful completion of the learning indicators identified for learning outcome 2.1, by meeting the prerequisites for MATH 24004.

² Students must complete the State Minimum Core requirements (<https://nam03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fnextcatalog.uark.edu%2Fundergraduatecatalog%2Fgened%2Fstateminimum%2F&data=02%7C01%7Cagriffin%40uark.edu%7Ce4e632415f9b49eda9bf08d7f5c20b91%7C79c742c4e61c4fa5be89a3cb566a%2F1XG8924jwOx8pTlw8IWNAGp0s%3D&reserved=0>) as outlined in the Catalog of Studies. The courses that meet the state minimum

core also fulfill many of the university's General Education requirements

(<https://nam03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fnextcatalog.uark.edu%2Fundergraduatecatalog%2Fgened%2Fgeneraleducation%2F&data=02%7C01%7Cagriffin%40uark.edu%7Ce4e632415f9b49eda9bf08d7f5c20b91%7C79c742c4e61c4fa5be89a3cb566a80d1%7C0%7C0%7C637248086069621479&sdata=QptR3u0pvU0Z%2BDWRVEfAqIMsYNX4KXEgX2JdEJJY7Go%3D&reserved=0>),

although there are additional considerations to satisfy the general education learning outcomes. Students are encouraged to consult with their academic adviser when making course selections.

³ **Students are required to complete 40 hours of upper-division courses (3000-4000 level). It is recommended that students consult with their adviser when making course selections.**

⁴ Data Science Statistics and Computational Analytics Concentration students are advised to select STAT 30133/STAT 30043 to meet the prerequisites required in the concentration.