

Data Science B.S. with Music Industry Data Analytics Concentration

Data Science B.S. with Music Industry Data Analytics Concentration Eight-Semester Plan

First Year	Units	
	Fall	Spring
MATH 2554 Calculus I (ACTS Equivalency = MATH 2405) (Satisfies General Education Outcome 2.1) ¹	4	
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013) (Satisfies General Education Outcome 1.1)	3	
DASC 1003 Introduction to Data Science	3	
DASC 1104 Programming Languages for Data Science	4	
MATH 2564 Calculus II (ACTS Equivalency = MATH 2505)		4
ECON 2143 Basic Economics: Theory and Practice (Satisfies General Education Outcome 3.3)		3
ENGL 1033 Technical Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.2)		3
DASC 1204 Introduction to Object Oriented Programming for Data Science		4
DASC 1223 Role of Data Science in Today's World		3
Year Total:	14	17
Second Year	Units	
	Fall	Spring
DASC 2594 Multivariable Math for Data Scientists	4	
STAT 3013 Introduction to Probability ⁴ or INEG 2323 Probability and Stochastic Processes for Industrial Engineers	3	
DASC 2113 Principles and Techniques of Data Science	3	
DASC 2213 Data Visualization and Communication	3	
State Minimum Core U.S. History or Government Elective (Satisfies General Education Outcome 4.2) ²	3	
SEVI 2053 Business Foundations (Data Science Majors-only section)		3
STAT 3003 Statistical Methods ⁴ or INEG 2314 Statistics for Industrial Engineers I		3-4
State Minimum Core Natural Science Elective with Lab (Satisfies General Education Outcome 3.4) ²		4
DASC 2203 Data Management and Data Base		3
MLIT 1333 Popular Music		3
Year Total:	16	16

Third Year	Units	
	Fall	Spring
DASC 2133 Data Privacy & Ethics (Satisfies General Education Outcome 5.1)	3	
DASC 3103 Cloud Computing and Big Data	3	
State Minimum Core Social Sciences Elective (General Education Outcomes 3.2 and 3.3) ²	3	
State Minimum Core Natural Science Elective with Lab (Satisfies General Education Outcome 3.4) ²	4	
MUIN 3213 21st Century Music Industry	3	
DASC 3203 Optimization Methods in Data Science		3
DASC 3213 Statistical Learning		3
MUIN 4103 Legal Aspects of the Music Industry		3
State Minimum Core Fine Arts Elective (Satisfies General Education Outcome 3.1) ²		3
State Minimum Core Social Sciences Elective (Satisfied General Education Outcomes 3.3 and 4.1) ²		3
Year Total:	16	15

Fourth Year	Units	
	Fall	Spring
DASC 4892 Data Science Practicum I	2	
DASC 4113 Machine Learning	3	
DASC 4123 Social Problems in Data Science and Analytics	3	
MUIN 4553 Live Music Business	3	
MUIN 4563 Artist Development	3	
DASC 4993 Data Science Practicum II (Satisfies General Education Outcome 6.1)		3
Concentration Elective		3
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 2554.

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%7C79c742c4e61c4fa5be89a3cb566a%2BDWRVfAqIMsYNYX4KXEgX2JdEJY7Go%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 3013/STAT 3003 to meet the prerequisites required in the concentration.