

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 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	
State Minimum Core Natural Science Elective with Lab (Satisfies General Education Outcome 3.4)	4	
DASC 1001 Introduction to Data Science	1	
DASC 1104 Programming Languages for Data Science	4	
MATH 2564 Calculus II (ACTS Equivalency = MATH 2505)	4	
DASC 1204 Introduction to Object Oriented Programming for Data Science	4	
DASC 1222 Role of Data Science in Today's World	2	
ACCT 2013 Accounting Principles	3	
ENGL 1033 Technical Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.2)	3	
Year Total:	16	16

Second Year	Units	
	Fall	Spring
DASC 2594 Multivariable Math for Data Scientists	4	
DASC 2113 Principles and Techniques of Data Science	3	
ACCT 2023 Accounting Principles II	3	
INEG 2313 Applied Probability and Statistics for Engineers I ⁴ or STAT 3013 Introduction to Probability	3	
DASC 2213 Data Visualization and Communication	3	
DASC 2203 Data Management and Data Base		3
SEVI 2053 Business Foundations		3
ACCT 3533 Accounting Technology		3
INEG 2333 Applied Probability and Statistics for Engineers II ⁴ or STAT 3003 Statistical Methods		3
DASC 2103 Data Structures & Algorithms		3
Year Total:	16	15

Third Year	Units	
	Fall	Spring
PHIL 3103 Ethics and the Professions (Satisfies General Education Outcome 5.1)	3	
DASC 3103 Cloud Computing and Big Data	3	
ACCT 3543 Accounting Analytics	3	
ISYS 4193 Business Analytics and Visualization	3	
State Minimum Core Social Sciences Elective (Satisfies General Education Outcomes 3.2 and 3.3) ²	3	
ISYS 4293 Business Intelligence		3
DASC 3203 Optimization Methods in Data Science		3
DASC 3213 Statistical Learning		3
ECON 2143 Basic Economics: Theory and Practice (Satisfies General Education Outcome 3.3)		3
State Minimum Core Natural Science with Lab Elective (Satisfies General Education Outcome 3.4)		4
Year Total:	15	16

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	
Accounting Analytics Concentration Elective	3	
State Minimum Core Fine Arts Elective (Satisfies General Education Outcome 3.1) ³	3	
DASC 4993 Data Science Practicum II (Satisfies General Education Outcome 6.1)		3
State Minimum Core Social Sciences Elective (Satisfies General Education Outcomes 3.3 and 4.1) ⁴		3
General Education Elective ⁵		3
State Minimum Core U.S. History or Government Elective (Satisfies General Education Outcome 4.2)		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 The Social Science Elective courses which satisfy General Education Outcomes 3.2 and 3.3 include: HIST 1113, HIST 1113H, HIST 1123, HIST 1123H, HIST 2003, or HIST 2013. Note, courses cannot be counted twice in degree requirements.

³ The Fine Arts Elective courses which satisfy General Education Outcome 3.1 include: ARCH 1003, ARHS 1003, COMM 1003, DANC 1003, LARC 1003, MLIT 1003, MLIT 1003H, MLIT 1013, MLIT 1013H, MLIT 1333, THTR 1003, THTR 1013, or THTR 1013H.

- ⁴ The Social Sciences Elective courses which satisfy General Education Outcomes 3.3 and 4.1 include:
ANTH 1023, COMM 1023, HDFS 1403, HDFS 2413,
HIST 1113, HIST 1113H, HIST 1123, HIST 1123H, HIST 2093,
HUMN 1114H, HUMN 2114H, INST 2013, INST 2813, INST 2813H,
PLSC 2013, PLSC 2813, PLSC 2813H, RESM 2853, SOCI 2013,
SOCI 2013H, or SOCI 2033.
- ⁵ 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.