

2021-2022 Data Analytics Major, Bachelor of Science (BS)
(78-79 Credits)

PREREQUISITE COURSES:

ENGL 201 (5) (FWSU) College Composition: Analysis, Research, & Documentation Prereq: ENGL 101 <i>Meets English Proficiency</i>	MATH/HONS 161 (5) (FWSU) Calculus I (recommended) Or: MATH 142 Prereq: MATH 141 <i>Meets Math Proficiency</i>	MISC 311 (4) (FWSU) Information Technology in Business Or: CSCD 210 or CSCD 211(5) Prereq: Sophomore status
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REQUIRED COURSES:

DSCI 245 (4) (FWSU) Business Statistics 1 Prereq: MATH 142, 161, or MATH 200	DSCI 346 (4) (FSWU) Business Statistics 2 Prereq: DSCI 245; MATH 142, 161, or MATH 200	DSCI 352 (4) (FW) Mixed Research Methods, Security and Ethics for Analytics Prereq: DSCI 245
DSCI 353 (4) (WS) Data Management, Cleaning and Imputation Prereq: DSCI 245	DSCI 445 (4) (FS) Optimization Via Management Science Prereq: DSCI 346	DSCI 449 (4) (S) Multivariate Data Analysis Prereq: DSCI 346
DSCI 450 (4) (WU) Data Visualization Prereq: DSCI 346	MISC 373 (4) (FWSU) Business Database Applications Prereq: MISC 211/311	MISC 374 (4) (FWSU) Spreadsheet Modeling for Business Applications Prereq: MISC 211/311 or CSCD 211
MISC 485 (4) (WS) Advanced Database Applications Development Prereq: MISC 373		

ELECTIVES – Select at least 3 from the following list with the approval of your faculty advisor:

CSCD 300 (5) (FWSU) Data Structures Prereq: CSCD 211, MATH 142	CSCD 320 (5) (FWS) Algorithms Prereq: CSCD 300, MATH 301	CSCD 423 (4) (???) Randomized Algorithms and Probabilistic Analysis Prereq: CSCD 320
DSCI 446 (4) (FU) Business Forecasting Prereq: DSCI 346	DSCI 447 (4) (???) Design of Experiments Prereq: DSCI 346	DSCI 448 (4) (???) Business Simulation Prereq: DSCI 346
DSCI/MISC 498 (4) (S) Seminar Prereq: Permission of the instructor, Department Chair, and College Dean	MISC 371 (4) (FW) Business Applications Program Design Prereq: MISC 211/311	MISC 372 (4) (FS) Data Communication and Network Fundamentals Prereq: MISC 211/311
MISC 486 (4) (S) Information Security Management Prereq: MISC 211/311	MISC/ENTP 487 (4) (W) Digital Entrepreneurship Prereq: MISC 211/311	MISC 498 or DSCI 498 (1-15) Seminar Prereq: MISC 211/311

REQUIRED SENIOR COHORT SEQUENCE & CAPSTONE:

DSCI 481 (4) (F) ML-Data Science Fundamentals Prereq: DSCI 353, MISC 373, and MATH 142 (MATH 161 preferred)	DSCI 483 (4) (S) ML-Applied Data Science Prereq: DSCI 481	DSCI 490 (4) (S) Analytics Senior Capstone Prereq: DSCI 450; MISC 485, declared Analytics Major
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