#### Major:

# **Data Analytics (B.A., B.S.)**

### Departments/Programs:

#### Mathematics and Computer Science

The Data Analytics major brings together skills in computer programming, quantitative reasoning, collaboration, communication, and creative thinking. Students who pursue this major will develop a broad technological toolkit for obtaining, analyzing, and visualizing data. By applying their skills to projects and internships, students will acquire flexible problem-solving skills for rapidly-changing professional environment.

Academically equivalent, both bachelor of arts and bachelor of science degrees will fully prepare you for a career in data analytics. If you choose to graduate with two majors, and the one major is only offered as a B.A. or B.S., the second major should match the first degree.

# Data Analytics Major (B.A. or B.S.\*\*, 38-40 hours)

MPSC 1100 Python Programming I  ATA 1200 Excel and SQL Programming  MPSC 2100 Python Programming II	4 hours
APSC 2100 Python Programming II	4.6
W GG 21001 yuldi 1 logramming ii	4 hours
ATA 1350 Introduction To Data Analytics	4 hours
ATA 3100 Data Visualization With R	4 hours
atistics	2-4 hours

2-4 hours

3 hours

### Take one of the following:

- BUSAD 2100 Business and Economic Statistics
- MATH 1300 Statistics
- MATH 3300 Mathematical Statistics I
- POLSC 2000 Introduction to Political Science Statistics
- PSYCH 2100 Psychological Statistics

• BUSAD 3100 Managing Information Systems

BUSAD 3300 Quantitative Methods

• SOC 2910 Social Statistics

Communication	4 hours
Take one of the following:	
<ul> <li>COMM 4100 Communication in the Professions</li> <li>COMM 3200 Persuasive Communication</li> <li>COMM 3800 Communication through Dialogue</li> </ul>	4 hours
Concentration (Choose one)	6 hours
Advanced Data Analytics	
<ul> <li>DATA 3200 Principles and Techniques of Data Analytics I*</li> </ul>	3 hours
DATA 3300 Principles and Techniques of Data Analytics II*      DATA 3300 Principles and Techniques of Data Analytics II*	3 hours
Business	3 hours

Concentration (Choose one)	6 hours
Project Management  BUSAD 1650 Introduction to Project Management* BUSAD 2550 Project Planning*	3 hours
Cybersecurity  • DATA 1700 Introduction to Cybersecurity*  • DATA 2700 Cybercrime and Governance*	3 hours 3 hours
Supply Chain Management  • DATA 2200 Forecasting And Logistics* • DATA 2300 Sourcing and Operations*	3 hours
Computer Science  • CMPSC 3000 Data Structures* • CMPSC 4000 Algorithms*	3 hours
Experiential Learning Internship	6 hours
DATA 4970 Internship	3 hours
Capstone	3 hours
DATA 4980 Capstone Project	3 hours

<sup>\*</sup>This course is offered remotely via NWU's partnership with a Consortium. The partnership allows students to earn NWU credit for specific courses. Classes are designed by top academics and industry leaders, vetted by NWU, and taught by experts in the field.

<sup>\*\*</sup>A Data Analytics major may earn either a B.A. or B.S. degree. However, if a student has a first major that is associated with a different baccalaureate degree, the Data Analytics major may serve as a second major for the degree associated with the first major (B.FA., B.M., B.S.N.).