



## *Degree Plan*

### **Master of Science (MS) Data Analytics (CSDA) 36 credit hours**

Student: \_\_\_\_\_  
Student ID: \_\_\_\_\_  
Email: \_\_\_\_\_  
Beginning Term: \_\_\_\_\_  
Goal to Graduate by: \_\_\_\_\_  
Academic Advisor: \_\_\_\_\_

To ensure adequate preparation to both information technology and business, an applicant to this data analytics program must have the basic business knowledge and basic information technology knowledge. The Walker School of Business & Technology accepts individuals who have successfully graduated from undergraduate computer science, information systems, mathematics, business administration, management or similar degree programs and possess the basic business, mathematics and information technology knowledge. To be eligible for this program, students must have either:

- Earned an undergraduate degree in business, management, computer science, statistics, economics, biology (BS), chemistry (BS) or physics (BS).

**OR**

- Completed college-level algebra and statistics, in the last 5 years, with a B or better in both courses.
- Have work experience that includes business, database and analytics.

#### **Course Substitutions**

Applicants to the data analytics program may take substitute courses for BUSN 5200 Basic Finance for Managers and BUSN 5760 Applied Business Statistics based on successful completion of prior academic work. Work experience will not be considered in lieu of academic coursework. The following rules apply to these substitutions:

#### **BUSN 5200 Basic Finance for Managers**

- Students that have completed an undergraduate or graduate degree in finance or accounting **or** who have completed one undergraduate or higher course in finance or accounting from an accredited university in the past five years with a grade of "B" or better may substitute BUSN 5200 with the following:
- One 3-credit-hour graduate level finance, business accounting or cybersecurity course from Webster University, provided the prerequisites for that course are met. Students should consult with their academic advisor for substitute course selection and approval.
- Students must meet the stated hours and other core course requirements for the degree.

#### **BUSN 5760 Applied Business Statistics**

- Students who have completed an undergraduate or graduate degree in statistics **or** who have completed one undergraduate or higher course in statistics from an accredited university in the past five years with a grade of "B" or better may substitute BUSN 5760 with the following:
- One 3-credit-hour graduate level cybersecurity or business accounting course from Webster University, provided the prerequisites for that course are met. Students should consult with their academic advisor for substitute course selection and approval.
- Students must meet the stated hours and other core course requirements for the degree.



# Degree Plan

## Introductory Courses (15 hours)

Course	Hrs	Term	Yr.	Pre-requisite
BUSN 5200 Basic Finance for Managers	3cr	--		
BUSN 5760 Applied Business Statistics	3cr	--		
CSDA 5110 Analytics Programming with R	3cr	--		
CSDA 5130 Social and Ethical Issues in Analytics	3cr	--		
CSDA 5210 Databases and Data Warehouses	3cr	--		

## Reinforcement Courses (9 hours)

CSDA 5230 Data Analytics	3cr	--		BUSN 5760 & CSDA 5210
CSDA 5310 Data Visualization	3cr	--		CSDA 5230
CSDA 5320 Analytics Applications using Python				CSDA 5230
CSDA 5330 Data Mining	3cr	--		CSDA 5110 & CSDA 5230

## Proficiency Courses (6 hours)

CSDA 5410 Time Series Analytics	3cr	--		CSDA 5310 & CSDA 5330
CSDA 5430 Predictive Analytics	3cr	--		CSDA 5310 & CSDA 5330

## Reinforcement Courses 3 hours)

CSDA 6010 Analytics Practicum	3cr	--		CSDA 5410 & CSDA 5430
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## Pathways

\*Actual schedules may vary based on start date and course availability\*

### Full-Time Suggested Pathway

#### YEAR 1

Term 1	Term 2	Term 3	Term 4	Term 5

#### YEAR 2

Term 1

### Part-Time Suggested Pathway

#### YEAR 1

Term 1	Term 2	Term 3	Term 4	Term 5

#### YEAR 2

Term 1	Term 2	Term 3	Term 4	Term 5



## *Degree Plan*

**YEAR 3**

Term 1	Term 2