MASTER OF SCIENCE IN DATA ANALYTICS
(30 CREDITS)

The study plans below are for guidance only. Always review your individual check sheet for your degree requirements. For full course descriptions, see the RMU Course Catalog

For more information, contact:

Dr. Natalya Bromall
Director of Graduate Programs
Computer and Information Systems Department
412-397-6435 | bromall@rmu.edu

3-Semester Guided Curriculum (Fall start)

Semester 1 - FALL		
9 credits		**# Credits**
INFS 6510	Introduction to Data Analytics	3
INFS 6240	Database Management Systems	3
Choose 1 elective: INFS/CYMS 6000-7000	 Any INFS/CYMS 6000-7000 level elective	3
Semester 2 - SPRING		
12 credits		**# Credits**
INFS 6010	Decision Support Systems	3
INFS 6720	Data Mining	3
CYMS 6210	Defending and Securing Networks	3
INFS 6241	Big Data Technologies	3
Semester 3 - FALL		
9 credits		**# Credits**
INFS 6730	Data Integration for Analytics	3
Choose 2 electives: INFS/CYMS 6000-7000 INFS/CYMS 6000-7000	 Any INFS/CYMS 6000-7000 level elective Any INFS/CYMS 6000-7000 level elective	6
INFS 7000	Program Outcomes Assessment	0

3-Semester Guided Curriculum (Spring start)

Semester 1 - SPRING		
9 credits		**# Credits**
INFS 6010	Decision Support Systems	3
INFS 6720	Data Mining	3
CYMS 6210	Defending and Securing Networks	3
Semester 2 - FALL		
12 credits		**# Credits**
INFS 6510	Introduction to Data Analytics	3
INFS 6240	Database Management Systems	3
INFS 6730	Data Integration for Analytics	3
Choose 1 elective: INFS/CYMS 6000-7000	Any INFS/CYMS 6000-7000 level elective	3
Semester 3 - SPRING		
9 credits		**# Credits**
INFS 6241	Big Data Technologies	3
Choose 2 electives: INFS/CYMS 6000-7000 INFS/CYMS 6000-7000	Any INFS/CYMS 6000-7000 level elective Any INFS/CYMS 6000-7000 level elective	6
INFS 7000	Program Outcomes Assessment	0

4-Semester Guided Curriculum (Fall start)

Semester 1 - FALL		
6 credits		**# Credits**
INFS 6510	Introduction to Data Analytics	3
INFS 6240	Database Management Systems	3
Semester 2 - SPRING		
9 credits		**# Credits**
INFS 6010	Decision Support Systems	3
INFS 6720	Data Mining	3
CYMS 6210	Defending and Securing Networks	3
Semester 3 - FALL		
9 credits		**# Credits**
INFS 6730	Data Integration for Analytics	3
Choose 2 electives: INFS/CYMS 6000-7000 INFS/CYMS 6000-7000	Any INFS/CYMS 6000-7000 level elective Any INFS/CYMS 6000-7000 level elective	6
Semester 4 - SPRING		
6 credits		**# Credits**
INFS 6241	Big Data Technologies	3
Choose 1 elective: INFS/CYMS 6000-7000	Any INFS/CYMS 6000-7000 level elective	3
INFS 7000	Program Outcomes Assessment	0

4-Semester Guided Curriculum (Spring start)

Semester 1 - SPRING		
9 credits		**# Credits**
INFS 6010	Decision Support Systems	3
INFS 6720	Data Mining	3
CYMS 6210	Defending and Securing Networks	3
Semester 2 - FALL		
6 credits		**# Credits**
INFS 6510	Introduction to Data Analytics	3
INFS 6240	Database Management Systems	3
Semester 3 - SPRING		
9 credits		**# Credits**
INFS 6241	Big Data Technologies	3
Choose 2 electives: INFS/CYMS 6000-7000 INFS/CYMS 6000-7000	 Any INFS/CYMS 6000-7000 level elective Any INFS/CYMS 6000-7000 level elective	6
Semester 4 – FALL		
6 credits		**# Credits**
INFS 6730	Data Integration for Analytics	3
Choose 1 elective: INFS/CYMS 6000-7000	 Any INFS/CYMS 6000-7000 level elective	3
INFS 7000	Program Outcomes Assessment	0

For electives, any INFS/CYMS 6000-level or 7000-level course can be applied. However, some suggestions include:

- INFS/STAT 5110 Data Visualization
- INFS 6040 Management Information Systems
- INFS 6140 Python Programming
- INFS 6215 Impact of Emerging Technologies
- ENGR/INFS 6460 Cloud Computing with AWS
- INFS 6630 Geographic Information Systems