DATA SCIENCE
GRADUATE PROGRAM

Master of Professional Studies and Graduate Certificate: Data Science

General Information

Student Name: _____

Admission Date: _____   Projected Graduation Date: _____

NOTE: This form serves as unofficial guidance in planning your program. In coordination with the Program Director you may edit or modify your desired courses (where possible & appropriate) at any point while at UMBC.

Academic Plans and Record (Program requires 10 courses, 30 credits)		
Course	**Course Title**	**Semester Planned/Completed**
Required courses for Data Science - (21 credits)		
DATA 601*	Introduction to Data Science	
DATA 602*	Introduction to Data Analysis and Machine Learning	
DATA 603*	Platforms for Big Data Processing	
DATA 604*	Data Management	
ENGM 652	Management, Leadership and Communication	
DATA 605	Ethical and Legal Issues in Data Science	
DATA 606	Capstone in Data Science	
Pathways Courses - (9 credits)		
Spatial Analytics (in collaboration with Department of Geography and Environmental Science)		
GES 773	GIS Modeling	
GES 773	Spatial Analysis	
GES 773	Visualization and Presentation	
Data Science (in collaboration with Department of Information Systems)		
IS 721	Semi-Structured Data Management	
IS 774	Systems and Information Integration	
IS 778	Data Warehousing and Data Mining	

All other course electives or substitutions must be approved by the GPD. For data course descriptions please visit: umbc.edu/datascience. For descriptions of other courses (e.g. CMSC, CMPE), please visit the website of the respective department. Some courses may have prerequisites; consult the specific department or instructor for further information.

Up to six (6) relevant credits may be transferred into the MPS provided they were not applied toward another earned graduate degree. Contact the GPD for course transfer information and applicability. For class schedules please visit: umbc.edu/datascience

*Indicates courses needed for Data Science Certificate.

Students may choose to complete a certificate by itself or they may complete a certificate and then later complete the master's degree. If a student is accepted into the M.P.S.: Data Science program, certificate courses count toward that degree.

Note: The Graduate School has a "continuous registration" policy which states you must register each fall and spring semester until you have completed your program of study. If you do not register you are automatically placed on a Leave of Absence (LOA). After three consecutive semesters of LOA, your student account will be discontinued. You may have to reapply to the Graduate School to be reinstated.