WPI DATA SCIENCE MINOR PROGRAM PLANNING and APPROVAL FORM

Last Name:	First Name:	WPI	ID:		
WPI Email:	Major Department:	Graduati	on Date:		
be double counted. Form and planning and copy of your transcript to [ourses from the Approved DS minor courses. Plea irst visit: https://www.wpi.edu/academics/study/datisor@wpi.edu to know related procedures and indiapproval form. After completing the minor, please to DS-minor-advisor@wpi.edu to get a signature to completing your Data Science minor-advisor@wpi.edu to have yo	a-science-minor to cate your Minor into update and send th confirm completion e minor, please ser	know more a entions by co e <u>Planning a</u> n . At any poil ad an email to	bout the Minor mpleting the Mand Approval Foot ont, if you have a	process. Then inor Declaration orm with an official any questions about
DATA SCIENCE MINOR REQUIREMENTS					
		Course	Term	Grade	Double Count Y/N
1 Business DS Cours					
2 Computer Science	DS Courses, 2000 Level or ↑				
3 Math Sciences DS	Course, 2000 Level or ↑				
4 DS Core Course (D	S1010/DS2010 or DS3010)				
5 DS Core Course (D	S1010/DS2010 or DS3010)				
6 Any approved disc	cipline Course, 3000 level or ↑				
Have you discussed Advisor?	the DS minor with your Academic				
Academic Advisor's	Signature:				
Advisor's Printed Na	me and Title:				
	CERTIFICATION of DS MIN	NOR COMPLE	TION		
DS Minor Completio	n Approval by DS Minor Advisor.				
Signature:		Date: _			

- **Credit may not be earned for both MA 2621 *and* MA 2631.
- ‡ Credit may not be earned for both CS 2102 and CS 2103
- ** Credit may be earned for both BUS 2080 and OIE 2081

APPROVED COURSES for the DATA SCIENCE MINOR

DATA SCIENCE CORE COURSES						
DS 1010 Data Science I: Introduction to Data Science						
DS 2010 Data Science II: Modeling and Data Analysis						
DS 3010 Data Science III: Computational Data Intelligence BUSINESS COURSES						
BUS 2080 Data Analysis for Decision Making MIS 4741 User Experience and Design						
BUS 3010 Creating Value Through Innovation	MKT 3650 Consumer Behavior					
ETR 3633 Entrepreneurial Selling	OIE 2081 Introduction to Prescriptive Analytics					
MIS 3720 Business Data Management	OIE 3460 Simulation Modeling and Analysis					
MIS 4084 Business Intelligence	OIE 4430 Advanced Prescriptive Analytics: From Data to Impact					
-	OIE 4430 Advanced Prescriptive Analytics. From Data to Impact					
MIS 4720 Systems Analysis and Design COMPUTER SCIENCE COURSES						
CS 2102 Object-Oriented Design Concepts	CS 4120 Analysis of Algorithms					
CS 2103 Accelerated Object-Oriented Design Concepts	CS 4233 Object-Oriented Analysis and Design					
CS 2022/MA 2201 Discrete Mathematics	CS 4241 Webware: Computational Technology for Network Information Systems					
CS 2119 Application Building with Object-Oriented Concepts	CS 4341 Introduction to Artificial Intelligence					
CS 2223 Algorithms	CS 4342 Machine Learning					
CS 2301 Systems Prog. for Non-Majors	CS 4432 Database Systems II					
CS 2303 Systems Programming Concepts	DS/CS 4433 Big Data Management and Analytics					
CS 3041 Human-Computer Interaction	CS 4445 Data Mining and Knowledge Discovery in Databases					
CS 3133 Foundations of Computer Science	CS 4802/BCB 4002 Biovisualization					
CS 3431 Database Systems I	CS 4803/BCB 4003 Biological and Biomedical Database Mining					
CS 3733 Software Engineering						
MATHEMATICAL SCIENCES COURSES						
MA 2051 Ordinary Differential Equations MA 3233 Discrete Optimization						
MA 2071 Matrices and Linear Algebra I	CS 4032/MA 3257 Numerical Methods for Linear and Nonlinear Systems					
MA 2072 Accelerated Matrices and Linear Algebra I	MA 3627 Introduction to the Design and Analysis of Experiments					
MA 2073 Matrices and Linear Algebra II	MA 3631 Mathematical Statistics					
CS 2022/MA 2201 Discrete Mathematics	MA 4213 Loss Models I - Risk Theory					
MA 2210 Mathematical Methods in Decision	MA 4214 Loss Models II - Survival Models					
Making MA 2431 Mathematical Modeling with Ordinary	MA 4235 Mathematical Optimization					
Differential Equations	1.0.14233 Mathematical Optimization					
MA 2611 Applied Statistics I	MA 4237 Probabilistic Methods in Operations Research					
MA 2612 Applied Statistics II	MA 4603/BCB 4004 Statistical Methods in Genetics and Bioinformatics					
MA 2621 Probability for Applications	MA 4631 Probability and Mathematical Statistics I					
MA 2631 Probability Theory	MA 4632 Probability and Mathematical Statistics II					
MA 3231 Linear Programming	MA/DS 4635 Data Analytics and Statistical Learning					