

## WPI DATA SCIENCE CERTIFICATE PLAN of STUDY

NAME: \_\_\_\_\_ WPI ID: \_\_\_\_\_ WPI EMAIL: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

FACULTY ADVISOR: \_\_\_\_\_ Date: \_\_\_\_\_

*18 credits are required for graduation - a minimum 1 course from each 5 Core Data Science areas.*

### CORE AREA 1: INTEGRATIVE

COURSE NUMBER	COURSE TITLE	YEAR	SEMESTER	GRADE
DS 501	INTRODUCTION TO DATA SCIENCE			

### CORE AREA 2: MATHEMATICAL ANALYSIS

COURSE NUMBER	COURSE TITLE	YEAR	SEMESTER	GRADE
DS 502/MA 543	STATISTICAL METHODS for DATA SCIENCE			
MA 542	REGRESSION ANALYSIS			
MA 554	APPLIED MULTIVARIATE ANALYSIS			

### CORE AREA 3: DATA ACCESS and MANAGEMENT

COURSE NUMBER	COURSE TITLE	YEAR	SEMESTER	GRADE
CS 542	DATABASE MANAGEMENT SYSTEMS			
MIS 571	DATABASE APPLICATION DEVELOPMENT			
CS 561	ADVANCED TOPICS in DATABASE SYSTEMS			
DS 503 / CS 585	BIG DATA MANAGEMENT			

### CORE AREA 4: DATA ANALYTICS and MINING

COURSE NUMBER	COURSE TITLE	YEAR	SEMESTER	GRADE
CS 548	KNOWLEDGE, DISCOVERY and DATA MINING			
CS 539	MACHINE LEARNING			
DS 504 / CS 586	BIG DATA ANALYTICS			

### CORE AREA 5: BUSINESS INTELLIGENCE and CASE STUDIES

COURSE NUMBER	COURSE TITLE	YEAR	SEMESTER	GRADE
MIS 584	BUSINESS INTELLIGENCE			
MKT 568	DATA MINING BUSINESS APPLICATIONS			

*Your sixth (6th) course, or elective, may be chosen from any of the Data Science courses so you can tailor your certificate to your specific area of interest.*

### CORE AREA 6: ELECTIVE

COURSE NUMBER	COURSE TITLE	YEAR	SEMESTER	GRADE

*Please complete this form and have your Faculty Advisor sign it at the start of each semester. Thank you!*

Faculty Advisor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Faculty Advisor Printed Name and Title: \_\_\_\_\_