

WPI DATA SCIENCE MINOR PROGRAM PLANNING and APPROVAL FORM

LAST NAME: _____ FIRST: _____
WPI ID: _____ EMAIL: _____ DATE: _____
MAJOR DEPARTMENT: _____ ANTICIPATED GRADUATION DATE: _____

- ✓ In the table below, list 6 courses from the list of Approved DS minor courses.
- ✓ In the last column, check if double-counting for another degree requirement.
- ✓ Please note: *no more than one unit* of course work may be double counted.
- ✓ Submit this form to the Data Science office, FL243, to indicate your minor intentions.
- ✓ After completing the DS Minor, please submit the updated form with an official copy of your transcript to the Data Science office; FL243

DATA SCIENCE <i>MINOR</i> REQUIREMENT	COURSE NUMBER	TERM	GRADE	✓ IF DOUBLE COUNTED
1. BUSINESS DS COURSE, 2000 LEVEL or above.				
2. COMPUTER SCIENCE DS COURSE, 2000 LEVEL or above.				
3. MATHEMATICAL SCIENCES DS COURSE, 2000 LEVEL or above.				
4. Any approved DS course from the list.				
5. DS 3001.	DS 3001			
6. ANY APPROVED DS COURSE, 3000 LEVEL or above.				

- ✓ Have you discussed a DS minor application with your Academic Advisor? ☐ YES ☐ NO
- ✓ ACADEMIC ADVISOR's SIGNATURE: _____ DATE: _____
Academic Advisor Printed Name and Title: _____

CERTIFICATION of DS MINOR COMPLETION

DS MINOR COMPLETION APPROVAL:

DS Minor Advisor Signature: _____ DATE: _____

APPROVED COURSES for the DATA SCIENCE MINOR:

Any graduate course approved for the Data Science Graduate Program can be counted towards the Data Science minor.

DATA SCIENCE COURSES:

- DS 3001 Foundations of Data Science

BUSINESS COURSES:

- BUS 2080 Data Analysis for Decision Making
- MIS 3720 Business Data Management
- MKT 3650 Consumer Behavior
- OIE 3420 Quality Planning: Design and Control
- OIE 3460 Simulation Modeling and Analysis
- ACC 4200 Managing Performance: Internal and Inter-organizational Perspectives
- OIE 4420 Practical Optimization: Methods and Applications

COMPUTER SCIENCE COURSES:

- CS 1004 Introduction to Programming for Non-Majors
- *CS 1101 Introduction to Program Design
- *CS 1102 Accelerated Introduction to Program Design
- CS 2102 Object-Oriented Design Concepts
- CS 2119 Application Building with Object-Oriented Concepts
- CS 2223 Algorithms
- CS 2301 Systems Programming for Non-majors
- CS 2303 Systems Programming Concepts
- CS 3431 Database Systems I
- CS 4120 Analysis of Algorithms
- CS 4341 Introduction to Artificial Intelligence
- CS 4432 Database Systems II
- CS 4445 Data Mining and Knowledge Discovery in Databases
- CS 4802 Biovisualization
- CS 4803 Biological and Biomedical Database Mining

**Credit may not be earned both for CS1101 and CS1102.*

MATHEMATICAL SCIENCES COURSES:

- MA 2071 Linear Algebra
- MA 2611 Applied Statistics I
- MA 2612 Applied Statistics II
- **MA 2621 Probability for Applications
- **MA 2631 Probability
- MA 3231 Linear Programming
- MA 3627 Introduction to the Design and Analysis of Experiments
- MA 3631 Mathematical Statistics
- MA 4213 Loss Models – Risk Theory
- MA 4214 Loss Models – Survival Models
- MA 4235 Mathematical Optimization
- MA 4237 Probabilistic Methods in Operations Research
- MA 4631 Probability and Mathematical Statistics I
- MA 4632 Probability and Mathematical Statistics II

***Credit may not be earned both for MA2621 and MA2631.*

Notes: