DATA SCIENCE MINOR

The Data Science minor (MDSC) provides students with the necessary analytical skills to gather and analyze (big) data and introduces principal components of machine learning to infer from processed data and share results in a meaningful way.

To earn the Data Science minor, students must successfully complete 20 credits (5 courses, 4 credits each). To enroll in the minor, students must successfully complete each of the two prerequisite courses.

Course	Title	Credits
Prerequisite courses		
COMP1000	COMPUTER SCIENCE I	4
or ELEC3150	OBJECT ORIENTED PROGRAMMING FOR ENGINEERS	
MATH1030	STATISTICS & APPLICATIONS	4
or MATH2100	PROBABILITY & STATISTICS FOR ENGINEERS	
Core Courses		**8**
COMP3125	DATA SCIENCE FUNDAMENTALS	4
MATH2860	LINEAR ALGEBRA & MATRIX THEORY	4
Elective Courses		**12**
Select 3 from the following electives (Required to choose electives from 3 different Academic Units s)		
Computer Science		
COMP3750	INTRODUCTION TO BIOSTATISTICS	4
COMP4050	MACHINE LEARNING	4
COMP4700	ARTIFICIAL INTELLIGENCE	4
COMP4750	EMBEDDED ARTIFICIAL INTELLIGENCE	4
Applied Mathematics		
MATH1550	FOUNDATIONS OF APPLIED MATHEMATICS	4
MATH2200	ADVANCED STATISTICS	4
MATH2250	TIME SERIES	4
MATH3700	OPERATIONS RESEARCH	4
MATH4050	MACHINE LEARNING	4
Applied Science		
SCIN2500	SCIENTIFIC COMPUTING	4
Humanities & Social Sciences		
COMM4305	WEB ANALYTICS & MEDIA RESEARCH	4
COMM4335	SEE IT AND SAY IT WITH DATA VIZ	4
PHIL4525	VIRTUAL ETHICS	4
Management		
MGMT1500	DECISION ANALYSIS FOR BUSINESS	4
MGMT2000	MANAGEMENT INFORMATION SYSTEMS	4
MGMT2500	SYSTEMS ANALYSIS & DESIGN	3
Total Credits		**20**