Minor in Data Science

The Division of Artificial Intelligence under the School of Data Science is responsible for administering the Minor programme and teaching most of the courses, as well as contributing to programme promotion. Some other departments will contribute to teaching some elective courses for the programme. Students whose Major is in any programmes other than LEO Dr David P. Chan BSc. (Hons) in Data Science Programme may qualify for this Minor.

For students of 2026-27 intake and after

Students are required to complete 15 credits in total.

Required Courses (9 credits)

CDS1001 Introduction to Programming for Data Science
CDS2002 Introduction to Artificial Intelligence
CDS1004 Mathematical Fundamentals for Data Science

Elective Courses (6 credits)

Advanced-level Electives: One from any of the following courses

CDS2003 Data Structures and Object-Oriented Programming
CDS2004 Quantitative Decision Making
CDS3001 Databases and Data Warehouses
CDS3002 Operations Simulation with Decision Analysis (titled as Simulation in Term 1, 2022-23 or before)
CDS3004 Data Mining
CDS4005 Big Data Analytics

Application-oriented Electives: One from any of the following courses

CDS2005 Operating Systems for Data Science (from 2027-28)
CDS3010 Information Systems Security Engineering and Management (from 2027-28)
CDS3005 Data Science Project Management
CDS4002 Data Management
CDS4003 Project
CDS4004 Web Technologies and Social Networks
ECO4203 Applied Econometrics
MKT3006 Marketing Analytics
SCI3001 Location Intelligence

For students of 2025-26 or earlier intakes

Students of 2025-26 or earlier intakes are allowed to follow either the structure below or the revised structure for 2026-27 intake and after.

Students are required to complete 15 credits in total.

Required Courses (6 credits)

CDS1001 Introduction to Programming for Data Science
CDS2002 Introduction to Artificial Intelligence

Elective Courses (9 credits)

Advanced-level Electives: At least two from any of the following courses

CDS2003	Data Structures and Object-Oriented Programming
CDS2004	Quantitative Decision Making
CDS3001	Databases and Data Warehouses
CDS3002	Operations Simulation with Decision Analysis (titled as Simulation in Term 1, 2022-23 or before)
CDS3004	Data Mining
CDS4005	Big Data Analytics

Application-oriented Electives: At most one from any of the following courses

BAI4010	Web Programming for e-Business (coded as CDS4010 in 2024-25 or before) (from 2022-23)
CDS3005	Data Science Project Management
CDS4002	Data Management
CDS4003	Project
CDS4004	Web Technologies and Social Networks
ECO4203	Applied Econometrics
MKT3006	Marketing Analytics
SCI3001	Location Intelligence