CURRICULUM MAP

MERRIMACK COLLEGE

Data Science, BS (Algebra Start)

YEAR ONE

FALL

Concepts in Algebra – MTH 1000	4 credits	Open Elective
FC Core Course	4 credits	FC Core Requirement
FC Core Course	4 credits	FC Core Elective
First Year Seminar – FYS 1947	4 credits	FC Core Requirement

Total Credits - 16

SPRING

Foundations of Data Science I – DSE 1001	4 credits	Major Requirement
Pre-Calculus – MTH 1016	4 credits	Major Requirement, FC Core Requirement
Problem Solving with Python – CSC 1611	4 credits	Major Requirement
FC Core Course	4 credits	FC Core Requirement

Total Credits - 16

YEAR TWO

FALL

Foundations of Data Science II – DSE 1002	4 credits	Major Requirement
Discrete Mathematics – MTH 1314	4 credits	Major Requirement
Data Structures with Python – CSC 2821	4 credits	Major Requirement
FC Core Course	4 credits	FC Core Requirement

Total Credits - 16

SPRING

Creating Information Graphics – DSE 2001	4 credits	Major Requirement
Databases – CSC 3810	4 credits	Major Requirement
Calculus I – MTH 1217	4 credits	Major Requirement
FC Core Course	4 credits	FC Core Requirement

Total Credits - 16

YEAR THREE

FALL

Basic Statistics – MTH 1111	4 credits	Major Requirement
Data Mining & Predictive Analytics I – DSE 3001	4 credits	Major Requirement
Analysis of Algorithms – CSC 2710	4 credits	Major Requirement
FC Core Course	4 credits	FC Core Elective

Total Credits - 16

SPRING

Data Mining & Predictive Analytics II – DSE 3002	4 credits	Major Requirement
DSE Major Elective 1	4 credits	Major Requirement
Open Elective	4 credits	Open Elective
Open Elective	4 credits	Open Elective

Total Credits - 16

YEAR FOUR

FALL

Data Science Practicum – DSE 4900	4 credits	Major Requirement
DSE Major Elective 2	4 credits	Major Requirement
FC Core Course	4 credits	FC Core Elective
Open Elective	4 credits	Open Elective

Total Credits - 16

SPRING

DSE Major Elective 3	4 credits	Major Requirement
FC Core Course	4 credits	FC Core Elective
Open Elective	4 credits	Open Elective
Open Elective	4 credits	Open Elective

Total Credits - 16

Notes: This is a sample curriculum map. Students may progress toward graduation using alternative pathways. In addition, ‘FC Core Requirement’ signifies that the course is required as part of the Foundations and Connections Core - the College’s general education program. Please be aware that all students must take six FC Core Requirement courses (FYS, CUS, HUM, RTS, SOSC, and STEM) and earn an FC Core Minor or Certificate to satisfy the College's general education requirement.

All students must accumulate 100 experiential education points through various activities such as internships, competitions, study abroad, co-op, and so on.