

Recommended Study Plan for Economics & Data Science (ECDS) - AY2021

YEAR 1 SEMESTER 1

S/N	Course Name & Code	Type	AUS
1	HE1001 Microeconomics I	ECON-CORE	3
2	HE1002 Macroeconomics I	ECON-CORE	3
3	MH1805 Calculus	DS-CORE	4
4	MH1812 Discrete Mathematics	DS-CORE	3
5	SC1003 Introduction to Computational Thinking & Programming	DS-CORE	3
6	CC0003 Ethics & Civics in a Multi-Cultural World	Common Core	2
7	CC0005 Healthy Living & Well-being	Common Core	3
Total number of AUs			21

YEAR 1 SEMESTER 2

S/N	Course Name & Code	Type	AUS
1	HE2001 Microeconomics II	ECON-CORE	3
2	HE2002 Macroeconomics II	ECON-CORE	3
3	SC1007 Data Structures & Algorithms	DS-CORE	3
4	SC1015 Introduction to Data Science & AI	Foundational-CORE	3
5	CC0001 Inquiry and Communication in an Interdisciplinary World	Common Core	2
6	CC0002 Navigating the Digital World	Common Core	2
Total number of AUs			16

Year 2, Semester 1

S/N	Course Name & Code	Type	AUS
1	HE2003 Econometrics I	ECON-CORE	3
2	MH2500 Probability and Introduction to Statistics	DS-CORE	4
3	MH2802 Linear Algebra for Scientists	DS-CORE	3
4	HE3001 Microeconomics III	ECON-CORE	3
5	HE3002 Macroeconomics III	ECON-CORE	3
6	CC0007 Science & Technology for Humanity	Common Core	3
Total number of AUs			19

Year 2, Semester 2

S/N	Course Name & Code	Type	AUS
1	HE3003 Econometrics II	ECON-CORE	3
2	SC2001 Algorithm Design and Analysis	DS-CORE	3
3	SC2207 Introduction to Database System	DS-CORE	3
4	ECON Prescribed Elective 1	ECON-PE	3
5	HW0228 Scientific Communication	Foundational-CORE	2
6	CC0006 Sustainability: Social, Economy & Environment	Common Core	3
7	ML0004 Career and Entrepreneurial Development for the Future World	Common Core	2
Total number of AUs			19

Year 2, Special Term

S/N	Course Name & Code	Type	AUS
1	HB3079 Internship	Foundational - Core	5

Year 3, Semester 1

S/N	Course Name & Code	Type	AUS
1	MH2100 Calculus III	DS-CORE	4
2	SC3000 Artificial Intelligence	DS-CORE	3
3	DS Prescribed Elective	DS-PE	7
4	ECON Prescribed Elective 2	ECON-PE	4
Total number of AUs			18

Year 3, Semester 2

S/N	Course Name & Code	Type	AUS
1	ECON Prescribed Elective	ECON-PE	8
2	DS Prescribed Elective	DS-PE	7
3	Broadening Elective	BDE	3
Total number of AUs			18

Year 3, Special Term

S/N	Course Name & Code	Type	AUS
1	HBxxxx Internship	Foundational - Core	5

Year 4, Semester 1

S/N	Course Name & Code	Type	AUS
1	HE4099 Graduation Project / ECON Prescribed Elective	ECON-CORE / ECON-PE	4
2	DS Prescribed Elective	DS-PE	4
3	Broadening Elective	BDE	3
Total number of AUs			11

Year 4, Semester 2

S/N	Course Name & Code	Type	AUS
1	HE4099 Graduation Project / ECON Prescribed Elective	ECON-CORE / ECON-PE	4
2	DS Prescribed Elective	DS-PE	4
Total number of AUs			8

Total AUs required **140**