

SECOND MAJOR IN DATA ANALYTICS: APPROVED PRE-REQUISITE MAPPING

Category	Course	Offering Semester	Official Pre-requisites	Approved Mapping	Applicable Programmes
Knowledge Area 4	MH1403 Algorithms and Computing (3AU)	2	PS0001	BS1009	BS
				BG2211 & CB0494 (co-req)	BIE
				CH2107 & CB0494 (co-req)	CBE
				CV1014	CEE, ENE, MS
				MS1008	MAT
				MA1008	AERO, ME
Knowledge Area 5	SC2207 Introduction to Databases (3AU)	1 & 2	SC2001	MH1403	EESS, BS, MATH, CHEM, PHY, BIE, CBE, CEE, ENE, MS, AERO, ME
Knowledge Area 6 / Elective	EE4483 Artificial Intelligence & Data Mining (3AU)	1	EE/IM2007/EE2107 & EE0005	{MH2802/MH1201 & PS0002} OR {MH1802 & MH1804 & PS0002}	MATH, CHEM, PHY
				CB1117 & CB0494	BIE, CBE
				CV2019 & CV0003	CEE, ENE
				MT2004 & MH2814 & CV0003	MS
				SC1004 & SC1015	CE
				EE2107 & MS0003	MSE
				MA2006 & MA2018	AERO, ME
Knowledge Area 6	SC4020 Data Analytics and Mining (3AU)	1	SC2001	MH1403	EESS, BS, MATH, CHEM, PHY, BIE, CBE, CEE, ENE, MS, AERO, ME
Knowledge Area 7	SC4024 Data Visualization (3AU)	1	SC1003 & SC2000 OR SC1003 & MH2500	BS1009 & MH2500	BS
				PS0001 & MH2500	MATH, CHEM, PHY
				CV1014 & MH2814	CEE, ENE, MS
				EE1005 & EE2106/EE4491	EEE, IEM
				MA1008 & MA4849	AERO, ME
Elective	BC2407 Analytics II: Advanced Predictive Techniques (4AU)	2	AB1202 & BC2406	CH2010 & BC2406	BIE, CBE
				MH2814 & BC2406	CEE, ENE, MS
				MS4012 & BC2406	MAT
				SC2000 & BC2406	CE
Elective	CH4244 Numerical Method and Data Analytics (3AU)	1	BG2211 or CH2107	MH2814 & BC2406	CEE, ENE, MS
Elective	EE4497 Pattern Recognition & Machine Learning (3AU)	2	EE2106	CH2010	BIE, CBE
Elective	MS4671 Introduction to Materials Simulation (3AU)	2	MS0003 & MS1008	CB0494 & BG2211	BIE
				CB0494 & CH2107	CBE
				CV1014 & CV0003	CEE, ENE, MS
				SC1003 & SC1015	CE, CSC
				EE1005 & EE0005	EEE, IEM
				MA1008 & MA2018	AERO, ME
Elective	SC4002 Natural Language Processing (3AU)	1	SC2001	MH1403	EESS, BS, MATH, CHEM, PHY, BIE, CBE, CEE, ENE, MS, AERO, ME
Elective	SC4021 Information Retrieval (3AU)	2	SC2001	MH1403	EESS, BS, MATH, CHEM, PHY, BIE, CBE, CEE, ENE, MS, AERO, ME
Elective	SC4022 Network Science (3AU)	2	SC2001	MH1403	EESS, BS, MATH, CHEM, PHY, BIE, CBE, CEE, ENE, MS, AERO, ME