

UNIT OFFERINGS YEAR 2019- Bachelor of Computer Science (2380)

School of Information Technology Malaysia Campus

List is Subject to Change

Last Updated: 4 October 2018

Semester 1					
Unit Set	Unit Code	Unit Title	Pre-requisite	Prohibition	Lecturer
Core	FIT1008	Introduction to computer science	((One of FIT1040, ECE2071, FIT1002) and FIT1029) or FIT1045 or FIT1053	CSE1303, CSC1030, FIT1015, FIT2085	TBA
	FIT1045	Algorithms and programming fundamentals in python	VCE Mathematics Methods or Specialist Mathematics units 3 & 4 with a study score of 25 or MTH1010.	FIT1029, FIT1053	TBA
	FIT1047	Introduction to computer systems, networks and security		FIT1031 and FIT2078	TBA
	FIT1049	IT professional practice	Completion of 12 points of FIT units.	FIT2003	TBA
	FIT2004	Algorithms and data structures	One of FIT1008, FIT1015, FIT1054, FIT2085 or CSE1303 and 6 points of Level 1 maths.	CSE2304, FIT2009	TBA
	FIT3036	Computer science project	FIT2004 or FIT3140	CSE3301, FIT3144	TBA
	MAT1830	Discrete mathematics for computer science	VCE Specialist Mathematics or Mathematical Methods units 3 and 4 with a study score of at least 25 or Further maths with a study score of at least 35.	MAT1077, MTH1112	TBA
	MAT1841	Continuous mathematics for computer science	VCE Specialist Mathematics or Mathematical Methods units 3 and 4 with a study score of at least 25 or Further maths with a study score of at least 35.	ENG1090, MTH1020, MAT2003	TBA
Elective	FIT1051	Programming fundamentals in java		FIT1002	TBA
	FIT2081	Mobile application development	FIT1045, FIT1048, FIT1051, FIT1053, FIT2071 or FIT1002 or equivalent		TBA
	FIT2093	Introduction to cyber security	One of FIT1047 or FIT1031 or equivalent and one of FIT1045, FIT1048, FIT1051, FIT1053 or equivalent introductory	FIT2078	TBA
	FIT2099	Object oriented design and implementation	(ENG1003 and ENG1060) or one of FIT1045, FIT1048, FIT1051, FIT1053.	FIT2024	TBA
	FIT3045	Industry-based learning	Completed 72 credit pts including 60 FIT or MAT credit points. Prerequisite units: (FIT1040 or FIT1002) and FIT2003.	BUS3000	TBA
	FIT3077	Software engineering: Architecture and design**	FIT2099 or (FIT2001 and (FIT2004 or FIT2024 or CSE2304)) or (FIT2001 and FIT2081)	CSE3308	TBA
	FIT3081	Image processing**	FIT2004 (or CSE2304)	CSE3314	TBA
	FIT3134	Entrepreneurship	Students must have completed at least 72 credit points in an undergraduate degree.	BEX3411	TBA
	FIT3152	Data analytics**	FIT1006, ETC1000, FIT2086 or equivalent. (For example BUS1100, ETC1010, ETC2010, ETF2211, ETW1000, ETW1010, ETW1102, ETW2111, ETX1100, ETX2111, ETX2121, MAT1097, STA1010)	ETX2250	TBA
	FIT3155	Advanced data structures and algorithms	FIT2004		TBA
	FIT3159	Computer Architecture	One of FIT1031, FIT1047, FIT1008 or FIT2085	FIT2069	TBA
FIT3171	Databases	One of FIT1045, FIT1048, FIT1051, FIT1053 or ENG1003	FIT1004, FIT2094	TBA	

NOTES: FITxxx: ** Approved Computer Science Elective

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Semester 2					
Unit Set	Unit Code	Unit Title	Pre-requisite	Prohibition	Lecturer
Core	FIT1008	Introduction to computer science	((One of FIT1040, ECE2071, FIT1002) and FIT1029) or FIT1045 or FIT1053	CSE1303, CSC1030, FIT1015, FIT2085	TBA
	FIT1045	Algorithms and programming fundamentals in python	VCE Mathematics Methods or Specialist Mathematics units 3 & 4 with a study score of 25 or MTH1010.	FIT1029, FIT1053	TBA
	FIT1047	Introduction to computer systems, networks and security		FIT1031 and FIT2078	TBA
	FIT1049	IT professional practice	Completion of 12 points of FIT units.	FIT2003	TBA
	FIT2004	Algorithms and data structures	One of FIT1008, FIT1015, FIT1054, FIT2085 or CSE1303 and 6 points of Level 1 maths.	CSE2304, FIT2009	TBA
	FIT2014	Theory of computation	One of FIT1045, FIT1048, FIT1051, ENG1003 or an equivalent introductory programming unit or (FIT1040 and FIT1029), and one of MAT1830, MTH1030, ENG1005 or equivalent.	CSE2303	TBA
	FIT3036	Computer science project	FIT2004 or FIT3140	CSE3301, FIT3144	TBA
	MAT1830	Discrete mathematics for computer science	VCE Specialist Mathematics or Mathematical Methods units 3 and 4 with a study score of at least 25 or Further maths with a study score of at least 35.	MAT1077, MTH1112	TBA
MAT1841	Continuous mathematics for computer science	VCE Specialist Mathematics or Mathematical Methods units 3 and 4 with a study score of at least 25 or Further maths with a study score of at least 35.	ENG1090, MTH1020, MAT2003	TBA	
Elective	FIT1043	Introduction to data science	VCE Mathematics Methods or Specialist Mathematics units 3 & 4 with a study score of 25 or MTH1010. Note: For 2016 Further Mathematics with a study score of 35 will be accepted.	FIT5145	TBA
	FIT1051	Programming fundamentals in java		FIT1002	TBA
	FIT2086	Modelling for data analysis	FIT1045, MAT1830 and one of MAT1841, MAT2003, MTH1030 or MTH1035		TBA
	FIT2100	Operating systems	One of FIT1047, FIT1031 or ENG1003	FIT2070	TBA
	FIT2101	Software engineering process and management	(ENG1003 and ENG1060) or one of FIT1045, FIT1048, FIT1051 or FIT1053		TBA
	FIT2102	Programming paradigms	FIT1008 or FIT1054		TBA
	FIT2107	Software quality and testing	(ENG1003 and ENG1060) or one of FIT1045, FIT1048, FIT1051 or FIT1053	FIT4004	TBA
	FIT3003	Business intelligence and data warehousing	One of FIT1004 or FIT2094		TBA
	FIT3031	Information and network security**	One of FIT1047, FIT1031, FIT1019, FIT1005, FIT2008 or ECE2041 and FIT209	FIT2058, FIT3018, FIT4028	TBA
	FIT3045	Industry-based learning	Completed 72 credit pts including 60 FIT or MAT credit points. Prerequisite units: (FIT1040 or FIT1002) and FIT2003.	BUS3000	TBA
	FIT3171	Databases	One of FIT1045, FIT1048, FIT1051, FIT1053 or ENG1003	FIT1004, FIT2094	TBA
	FIT3080	Intelligent systems**	FIT2004 or CSE2304	CSE2309, CSE3309, DGS3691	TBA
	FIT3143	Parallel computing**	FIT2004	FIT4001, CSE4333	TBA
	FIT3155	Advanced data structures and algorithms	FIT2004		TBA
	FIT3175	Usability	One of FIT1045, FIT1048, FIT1051, FIT1053 or equivalent	FIT3063, FIT2016, FIT3033	TBA
FIT3179	Data visualisation	Completion of 24 points at first year.	FIT2079, FIT3020	TBA	

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