

Information Technology

Bachelor of Software Engineering

Industry Based Learning Stream Course Map - 2013

Year 1

First Semester	FIT1040 Programming fundamentals	Approved Elective	MAT1830 Discrete mathematics for computer science	FIT1029 Algorithmic problem solving
Second Semester	FIT1004 Data management	FIT1010 Introduction to software engineering	FIT1031 Computers and networks	FIT1008 Introduction to computer science

Year 2

First Semester	FIT2001 Systems development	FIT2043 Technical documentation for software engineering	FIT2069 Computer architecture	FIT2004 Algorithms and data structures
Second Semester	FIT3013 Formal specification for software engineering	FIT2024 Software engineering practice	FIT2070 Operating systems	MAT2003 Continuous mathematics for computer science

Year 3

Summer Semester	FIT2002 Project management			
First Semester	FIT3042 Systems tools and programming languages	FIT3077 Software engineering: architecture and design	FIT3141 Data communications and computer networks	FIT2003 IT professional practice
Second Semester	FIT3045 Industry based learning (18 points)			

Year 4 (Option 1)

First Semester	FIT4002 Software engineering studio project (12 points)	FIT4004 System verification and validation, quality and standards	Approved Elective	Approved Elective
Second Semester		FIT3142 Distributed computing	Approved Elective	Approved Elective

Year 4 (Option 2 – Honours Research)

First Semester	FIT4002 Software engineering studio project (12 points)	FIT4004 System verification and validation, quality and standards	FIT4005 Research methods	FIT4441 Honours thesis – part 1 (Full-year project)
Second Semester		FIT3142 Distributed computing	FIT4442/4448 Honours thesis – part 2/final (Full-year project)	

 Common Core (units common to all IT undergraduate degrees)



MONASH University

