

Information Technology

Bachelor of Software Engineering

Industry Based Learning Stream Course Map - 2015

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

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|------------------------|---|--|---|---|
| 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

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|------------------------|---|---|---|--|
| 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 Or ECE2041 Telecommunications | FIT2003 IT professional practice |
| Second Semester | FIT3045 Industry based learning (18 points) | | | |

Year 4 (Option 1)

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|------------------------|--|---|--------------------------|--------------------------|
| 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)

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|------------------------|--|---|--|---|
| 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

