



BACHELOR OF SOFTWARE ENGINEERING (2770) – 2010 Transition

This course map shows a recommended progression only. Some units can be taken in semesters other than those indicated above. Students completing units in a different sequence to that indicated above should be aware of unit prerequisites and semesters of offering prior to varying their course progression. Please see a Course Advisor for any queries

UNITS IN RED ARE REPLACEMENTS FOR CORE UNITS NO LONGER OFFERED. SEE <http://intranet.monash.edu.au/infotech/current/course-information/> FOR FURTHER TRANSITION INFORMATION.

Level 1

First Semester	FIT1001 Computer systems OR FIT1031 Computers and networks	FIT1002 Computer programming OR FIT1040 Programming fundamentals	MAT1841 Mathematics for computer science 1 OR MAT2003 Continuous mathematics for computer science	FIT1029 Algorithmic problem solving
Second Semester	FIT1010 Introduction to software engineering	FIT1008 Computer science	MAT1830 Mathematics for computer science 2	ENG1061 Engineering profession

Level 2

First Semester	FIT2001 Systems analysis and design	FIT2010 Database OR FIT1004 Data management	FIT2004 Algorithms and data structures	FIT2043 Technical documentation for software engineers
Second Semester	FIT2024 Software engineering practice [FIT1008 or FIT1015 or FIT2034]	FIT2008 Networks and data communications OR FIT1005 Networks and data communications (Caulfield)	FIT2014 Theory of computation	FIT2022 Computer systems 2 OR FIT2070 Operating systems

Level 3

First Semester	FIT3086 Project management OR FIT2002 Project management	FIT3013 Formal specification for software engineering	FIT3042 Systems tools and programming languages	FIT3084 Multimedia programming and the WWW OR FIT2013/FIT3083 e-Business software technologies
Second Semester	FIT4001 Parallel and distributed systems OR FIT3142 * Distributed computing OR FIT3143 * Parallel computing	FIT3077 Software engineering: architecture and design [Approved Elective [See below website for list of approved electives]	Approved Elective [See below website for list of approved electives]
Summer	12 week Industry Placement (recommended - see below)			

Level 4 (Option 1)

First Semester	FIT4002 Software engineering studio project (Full year project) [FIT3077 and FIT2002 OR FIT3086]	FIT4004 System verification and validation, quality and standards [FIT2004 & FIT2024 & FIT3042 & FIT3077 & FIT3086]	Approved Elective [See below website for list of approved electives]	Approved Elective [See below website for list of approved electives]
Second Semester	(12 points)	Approved Elective [See below website for list of approved electives]	Approved Elective [See below website for list of approved electives]	Approved Elective [See below website for list of approved electives]

Level 4 (Option 2) * NOT AVAILABLE IN 2011

First Semester	FIT4002 Software engineering studio project (Full year project) [FIT3077 and FIT2002 OR FIT3086]	FIT4003 ** Software engineering research project (Full year project)	FIT4004 System verification and validation, quality and standards [FIT2004 & FIT2024 & FIT3042 & FIT3077 & FIT3086]	Approved Elective [See below website for list of approved electives]
Second Semester	(12 points)	(12 points)	Approved Elective [See below website for list of approved electives]	Approved Elective [See below website for list of approved electives]

Level 4 (Option 3) REFER TO 2011 COURSEMAP FOR HONOURS STREAM

First Semester	FIT4013 ** Software engineering research project (Full year project)	FIT4004 System verification and validation, quality and standards [FIT2004 & FIT2024 & FIT3042 & FIT3077 & FIT3086]	FIT4002 Software engineering studio project (Full year project)
Second Semester	(24 points)	Approved Elective [See below website for list of approved electives]	[FIT3077 and FIT2002 OR FIT3086] (12 points)

192 points must be completed to qualify for the degree of Bachelor of Software Engineering, with the following conditions:

- normally 48 points, and a maximum of 60 points, of first year level units will be counted;
- a maximum of 60 points can be completed at second year level
- at least 36 points must be completed at third year level

** FIT4003 and FIT4013 are honours research projects, available only to students undertaking the honours version of the degree. Entry to these units is by invitation, based upon a weighted average of previous years' results.

All units are 6 points unless indicated otherwise.

Approved course variations to the BSE course structure:

- Students requiring other mathematics for an Engineering sequence may replace MAT1830/1841 with approval.
- Students intending to complete a minor or major sequence in sequence in Mathematics within the Faculty of Science should substitute another mathematics unit for MAT1830, with approval.

***Students WITHOUT a credit average in FIT2008 and FIT2022 should complete FIT3143 in place of FIT4001.**

Any other course variations must be approved by the Course Director and will be confirmed in writing.

Students are required to fulfil a 12 week industry placement requirement. Students will be advised to complete this requirement during their summer break between year 3 and year 4 of their course. (This is an Engineers Australia (EA) requirement for accreditation of Professional Engineering courses).

Please see <http://intranet.monash.edu.au/infotech/current/course-information/> for approved elective lists. A limited number of units not on the approved elective list may be taken with approval.

Students should check the current University Handbook for unit prerequisites.