

BACHELOR OF INFORMATICS AND COMPUTATION ADVANCED (HONOURS) (4310) - 2015

Student Name: _____ ID: _____

This course map shows a recommended progression only. Some units can be taken in semesters other than those indicated below. Students completing units in a different sequence to that indicated below 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://www.infotech.monash.edu.au/current/course-information/> FOR FURTHER TRANSITION INFORMATION.

Year 1

First Semester	FIT1040 Programming fundamentals	Specialisation	Specialisation	Elective Major/Minor
Second Semester	FIT1004 Data management OR FIT2094 Databases	FIT1031 Computers and networks OR FIT1047 Introduction to computer systems, networks and security	FIT1041 Research project 1	Elective Major/Minor

Year 2

Summer Semester	FIT2002 Project management [24pts level 1]			
First Semester	FIT2001 Systems development [Co-req: FIT1004]	Specialisation	FIT2083 Research methods in computer science OR FIT2084 Research methods in information systems and information management	Elective Major/Minor
Second Semester	Specialisation	Specialisation	FIT2082 Research project 2 [FIT2083 or FIT2084]	Elective Major/Minor

Year 3

First Semester	Specialisation	Specialisation	Elective Major/Minor	Elective Major/Minor
Second Semester	FIT3045 Industry-based learning OR FIT3153 Research placement (18 points)			

Year 4

First Semester	FIT4441 Honours thesis - part 1	FIT4442 Honours thesis – part 2	Approved Honours Elective	Elective Major/Minor
Second Semester	FIT4443 Honours thesis – part 3	FIT4444 Honours thesis – part 4	Approved Honours Elective	Elective Major/Minor

Notes on Course map

192 points must be completed to qualify for the degree of Bachelor of Informatics and Computation Advanced (Honours), 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**

All units are 6 points unless indicated otherwise.



Common Core (units common to all IT undergraduate degrees)

SPECIALISTIONS

Business information systems

FIT1006 Business information analysis

FIT1030 Introduction to business information systems OR **Any FIT elective unit**

FIT2006 Business process modelling and workflow OR **FIT2090 Business information systems and processes**

FIT2017 Computer models for business decision making OR **FIT3158 Business decision models**

FIT2081 Mobile application development

FIT2084 Research methods in information systems and information management

FIT3003 Business intelligence and data warehousing

FIT3083 e-Business software technologies OR **FIT3138** Real time enterprise systems

Computer science

FIT1008 Introduction to computer science

FIT1029 Algorithmic problem solving OR **FIT1045 Introduction to algorithms and programming**

FIT2004 Algorithms and data structures

FIT2014 Theory of computation

FIT2083 Research methods in computer science

FIT3140 Advanced programming OR **FIT3155 Advanced data structures and algorithms**

MAT1830 Discrete mathematics for computer science

Approved computer science elective (refer to <http://www.infotech.monash.edu.au/current/course-information/>)

Computing technology

FIT1006 Business information analysis

FIT2034 Computer programming 2 OR **FIT2081 Mobile application development**

FIT2076 Web-database interface OR **FIT2104 Web database interface**

FIT2077 Advanced data management OR **FIT3176 Advanced database design**

FIT2078 Introduction to security OR **FIT2093 Introduction to cyber security**

FIT2083 Research methods in computer science OR **FIT2084** Research methods in information systems and information management

FIT3031 Information and network security

FIT3056 Secure and trusted software systems

Information management **(students in this specialisation to contact Faculty for advice regarding replacement units)**

FIT1006 Business information analysis

FIT1037 Information management OR **FIT1052 Digital futures: IT shaping society**

FIT2074 Technology, information and organisations **(not offered beyond 2016 – students to contact Faculty for advice regarding replacement unit)**

FIT2080 Information architecture

FIT2084 Research methods in information systems and information management

FIT3098 Social informatics

FIT3099 Knowledge management

FIT3147 Managing data