



**BACHELOR OF COMPUTER SCIENCE (2380)
INDUSTRY BASED LEARNING STREAM**

FIRST YEAR LEVEL - 48 Points

First Semester	FIT1001 Computer systems (6 points)	FIT1002 Computer programming (6 points)	MAT1841* Mathematics for computer science I (6 points)	Elective (6 points)
Second Semester	FIT1003 IT in organisations (6 points)	FIT1008 Computer science (6 points)	MAT1830* Mathematics for computer science II (6 points)	Elective (6 points)

SECOND YEAR LEVEL – 48 Points

First Semester	FIT2001 System analysis and design (6 points)	FIT2010* Database (6 points)	FIT2004 Algorithms and data structures (6 points)	FIT2043 # Technical documentation for software engineers (6 points)
				Elective# (6 points)
Second Semester	FIT2022 Computer systems II (6 points)	FIT2008* Networks and data communications (6 points)	FIT2014 Theory of computation (6 points)	FIT3086 # IT project management (6 points)

THIRD YEAR LEVEL – 48 Points

First Semester	FIT3127 # Industry Based Learning (18 points)			
Second Semester	FIT3077 Software engineering: architecture and design (6 points)	FIT3014 Analysis and design of algorithms (6 points)	Elective # (6 points)	Elective # (6 points)

144 points must be completed to qualify for the degree of Bachelor of Computer Science, with the following conditions:

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

Notes: (Approved variations)

* Students intending to complete a minor or major sequence in mathematics within the Faculty of Science should substitute another mathematics unit for MAT 1841, with approval.

* Students requiring other mathematics for a non-CS elective stream (eg Eng stream) may replace MAT1830/MAT1841 with approval.

+ Students transferring from other Faculty programs and students entering with advanced standing will be permitted the following course variation:

- FIT1004 Database may be substituted for FIT2010 Database
- FIT1005 Networks and Data Communications may be substituted for FIT2008 Networks and Data Communications
- FIT2002 IT Project Management may be substituted for FIT3086 IT Project Management if taken in 2nd year elective space. **Note that students must then take a third year level elective.**

Students must take final Elective (6 points) as overload during 2nd year (recommended – see course map above) or Semester 2, 3rd year