Faculty of Science, Engineering and Built Environment



D372.3

Campus of Offer: Geelong Waurn Ponds Campus (G) Duration: 5.5 years full time or part time equivalent Course code: D372

Bachelor of Engineering / Bachelor of Science

		ram – 0 credit point compulsor y training session conducted at t		imester)
	SLE010 Safety Induction Program – 0 credit point compulsory unit (Compulsory: 50-minute safety training session conducted at the beginning of the your first Trimester)			
Trimester 1	SEB121 Engineering Practice	SEB101^ Engineering Fundamentals	SIT199 Applied Algebra and Statistics	SED102 Engineering Graphics and CAD
Trimester 2	SEE103 Electrical Systems	SEM111 Engineering Materials 1	SIT194 Introduction to Mathematical Modelling	SIT172 Programming for Engineers
Trimester 1	SEP291 Engineering Modelling	SEE202 Digital Electronics	^ Choose one of: SLE133 Chemistry in Our World (B,G) (Tri-1) or SLE155 Chemistry for the Professional Sciences (B,G) (Tri-2)	SLE111 Cells and Genes
Trimester 2	SEB223 The Professional Environment for Engineers & Scientists	SEE215 Microcontroller Principles	Science	Science
Trimester 1	SEE207 Power Engineering Design	SEE206 Measurement and Instrumentation	SLE103 Ecology & the Environment	EES101 Communicating Science
Trimester 2	SEE205 Analogue Electronics	SEE208 Modern Power Generation Systems Design	Science	Science
	SEP490: Engineering Work Experience (12 weeks)			
Trimester 1	SEE307 Systems and Signals	SEE321 Electro-Mechanical Systems	SEE309 Power Systems Protection and Relaying	SEE320 Microcontroller System Design
Trimester 2	SEB324 Project Management	SEE312 Industrial Data Communication Incompatible with SIT202	SEE308* Electrical Machines and Drives	SEE344 Control Systems On Campus requirements
Trimester 1	SEJ441 Engineering Project A Offered T1, T2 and T3	SEE406 Electrical Systems and Safety	SEE405 Smart Generation and Transmission	Science
Trimester 2	SEJ446 Engineering Project B (2cp) Offered T1, T2 and T3	<u> </u>	SEE412 Data Communication	Science
Trimester 1	Science – Level 3	Science – Level 3	Science – Level 3	Science – Level 3
ces SEP101 from 2016				

This map is a guide only and should be used in conjunction with the 2016 on-line Handbook.

Rev: 20 August 2015

[^] SEB101 replaces SEP101 from 2016
* SEE308 from 2017 offered Tri 1: Waurn Ponds (Geelong), Cloud (Online), Tri 2: Cloud (online)

COURSE RULES:

This combined course comprises a total of 44 credit points which must include the following:

Engineering component:

- 30 credit points of core engineering units
- One approved Engineering major:
 - civil
 - electrical and electronics
 - mechanical
 - mechatronics and robotics
- Combined Engineering students are exempt from engineering elective requirements.
- See course entry for the <u>Bachelor of Engineering (S367)</u> for details of core units.

Science component:

- 16 credit points of Science units including:
 - 7 Bachelor of Science core units
 - One 8 credit point major from the Bachelor of Science:
 - Biology
 - - Biological Chemistry
 - Chemistry
 - Mathematical Modelling
 - - Zoology
- 2 Engineering units course grouped for Science: SEP101 and SIT194
- See course entry for the <u>Bachelor of Science (S320)</u> for further details.

Students must meet the minimum requirements for each award.

Science component:

16 credit points (cps) of Science units including:

7 Bachelor of Science core units (1 cps each)

SLE111 Cells and Genes Tri-1
SLE103 Ecology & the Environment Tri-1
EES101 Communicating Science Tri-1
SEB101^ Engineering Fundamentals Tri-1
SIT194^ Intro to Math Modelling Tri-2

Minimum of 1 cp of professional practice

(choose from SLE390, SLE352, SLE314, STP321) Tri-1, Tri-2

Chemistry - choose one from:

SLE133 Chemistry in Our World Tri-1

SLE155 Chemistry for the Professional Sciences Tri-2

Note: Students who have not completed Year 12 Chemistry or equivalent may choose to do SLE133 Chemistry in Our World in Trimester 1. Students who Chemistry or equivalent may choose to do SLE155 Chemistry for the Professional Sciences in Trimester 2.

Students who are intending on completing a Biological Chemistry or Chemistry major must complete SLE155 Chemistry for the Professional Sciences.

One 8 credit point major from the Bachelor of Science (refer to the online handbook for details on the major sequence):

MJ-S000008 Biology

MJ-SU00012 Biological Chemistry

MJ-S000009 Chemistry

MJ-S000007 Mathematical Modelling

MJ-S000025 Zoology

^2 Engineering units course grouped for Science: SEP101/SEB101 and SIT194

Students must meet the minimum requirements for each award.

Please note that some units are available in Trimester 3, please refer to the online handbook

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