

S466 BACHELOR OF ENGINEERING (INDUSTRY) (HONOURS)

FACULTY OF SCIENCE, ENGINEERING AND BUILT ENVIRONMENT



MECHATRONICS ENGINEERING MAJOR SEQUENCE

FOR STUDENTS COMMENCING TRIMESTER 1 2023

Last updated 27/10/2022

When you first enrol via StudentConnect and go through the enrolment steps, you may be able to simply confirm any units that are pre-populated for you. You can also add any that you need to do, as part of your first year's enrolment – by using the information on this map and in the Handbook.

You must also complete the following compulsory zero (0) credit point units: SEJ010 Introduction to Safety and Project Oriented Learning (0 credit points)

AND STP010 Career Tools for Employability (0 credit points)

AND STP050 Academic Integrity (0 credit points)

YEAR 1 Year: 2023	Trimester 1				
	Trimester 2				
	Trimester 3				

YEAR 2 Year: 2024	Trimester 1				
	Trimester 2				
	Trimester 3				

YEAR 3 Year: 2025	Trimester 1				
	Trimester 2				
	Trimester 3				

YEAR 4 Year: 2026	Trimester 1				
	Trimester 2				
	Trimester 3				

YEAR 5 Year: 2027	Trimester 1				
	Trimester 2				
	Trimester 3				

It is recommended students undertake SEJ441 and SEJ446 in consecutive trimesters.

S466 COURSE RULES

- Must pass 38 credit points for course
- Must pass ALL units in {SEB101, SEJ010, SEJ104, SEJ441, SEJ446, SEL703, SEL799, SEP105, SEP291, SET111, SIT194, SIT199, STP010, STP050}
- Must pass 14 credit points at levels {2, 3}
- Must pass 6 credit points at level {3}

- Must pass 1 unit set(s) in {Civil Engineering (MJ-S000092), Electrical and Electronics Engineering (MJ-S000093), Mechanical Engineering (MJ-S000094), Mechatronics Engineering (MJ-S000095)}

FOR USE ONLY WHEN UNDERTAKING A CONSULTATION WITH A STUDENT ADVISER:

Student ID: _____		Name: _____		
Deakin email: _____			Preferred contact no: _____	
Year commenced:	Period commenced:	eCOE (if applicable):	Campus: _____	Mode: _____
Student adviser: _____				Date: _____

Notes

GENERAL INFORMATION

This course map is a guide only. You must also ensure you meet the course rules and structure as set out in the official [University Handbook](#) of the year you commenced your course. This course map has been created to be used electronically.

Not all units are available in all study periods or mode of delivery.

- Full time study is typically three to four units (or credit points) each study period.
- Part time study is typically one to two units (or credit points) each study period – part time study will extend the duration of your studies.
- Trimester 3 is typically an optional study period - unless it's your first study period and/or a compulsory study period for your course.

Unit options can be found in the '[Advanced Unit Search](#)' in the most current year's University Handbook.

If you have applied for or received credit for units as recognition of prior learning (RPL), it may alter the units you need to study.

Please seek advice from a Student Adviser in StudentCentral if you have any queries or need help understanding your course structure and unit options.

S466 BACHELOR OF ENGINEERING (INDUSTRY) (HONOURS) MAJOR UNIT SETS

CIVIL ENGINEERING (MJ-S000092)
SEJ103 Materials Engineering Project
SEJ201 Structural Design
SEJ202 Field Investigation
SEM216 Stress and Failure Analysis
SEM218 Fluid Mechanics
SEN770 Infrastructure Engineering
SEP701 Continuing Professional Development

SEV254 Road and Pavement Engineering
SEV300 Reinforced Concrete and Steel Structures
SEV301 Water Engineering Design
SEV320 Theory of Structures
SEV322 Hydrology and Hydraulics
SEV362 Geotechnical Engineering
SEV402 Traffic and Transport Engineering

Completion Rule

- Must pass all unit(s) in {SEJ103, SEJ201, SEJ202, SEM216, SEM218, SEN770, SEP701, SEV254, SEV300, SEV301, SEV320, SEV322, SEV362, SEV402}

ELECTRICAL AND ELECTRONICS ENGINEERING (MJ-S000093)

SEE210 Power Engineering Design
SEE212 Power Electronics
SEE213 Distributed Generation System
SEE216 Analogue and Digital Electronics
SEE222 Embedded Systems Design
SEE307 Systems and Signals
SEE308 Electrical Machines and Drives
SEE312 Data Communication
SEE332 Transmission and Distribution System Design
SEE406 Power System Analysis
SEE716 Electrical Systems Protection
SEJ102 Electrical Systems Engineering Project
SEJ302 Control Systems Engineering
SEP701 Continuing Professional Development

Completion Rule

- Must pass all unit(s) in {SEE210, SEE212, SEE213, SEE216, SEE222, SEE307, SEE308, SEE312, SEE332, SEE406, SEE716, SEJ102, SEJ302, SEP701}

MECHANICAL ENGINEERING (MJ-S000094)

SED344 Product Modelling and Design
SEJ103 Materials Engineering Project
SEJ201 Structural Design
SEJ302 Control Systems Engineering

SEM200 Machine Design
SEM202 Thermodynamics
SEM216 Stress and Failure Analysis
SEM218 Fluid Mechanics
SEM302 Advanced Stress Analysis
SEM310 Thermo-Fluid Systems
SEM313 Manufacturing
SEM327 Dynamics of Machines
SEM400 Computational Fluid Dynamics
SEP701 Continuing Professional Development

Completion Rule

- Must pass all unit(s) in {SED344, SEI103, SEJ201, SEJ302, SEM200, SEM202, SEM216, SEM218, SEM302, SEM310, SEM313, SEM327, SEM400, SEP701}

MECHATRONICS ENGINEERING (MJ-S000095)

SEE212 Power Electronics
SEE216 Analogue and Digital Electronics
SEE222 Embedded Systems Design
SEE307 Systems and Signals
SEE312 Data Communication
SEI102 Electrical Systems Engineering Project
SEJ302 Control Systems Engineering
SEM200 Machine Design
SEM327 Dynamics of Machines
SEN771 Intelligent Systems for Autonomous Control
SEP701 Continuing Professional Development
SER204 Electromechanical Systems
SER300 Mechatronic Design
SER400 Virtual and Augmented Interfaces

Completion Rule

- Must pass all unit(s) in {SEE212, SEE216, SEE222, SEE307, SEE312, SEI102, SEJ302, SEM200, SEM327, SEN771, SEP701, SER204, SER300, SER400}