

S751 MASTER OF ENGINEERING (PROFESSIONAL)
FACULTY OF SCIENCE, ENGINEERING AND BUILT ENVIRONMENT
SMART MANUFACTURING SPECIALISATION SEQUENCE



FOR STUDENTS COMMENCING TRIMESTER 1 2027

Last updated 20/07/2026

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: DAI001 Academic Integrity and Respect At Deakin (0 credit points)
AND SEE700 Safety Induction Program (0 credit points)
AND STP710 Career Tools for Employability (0 credit points)

YEAR 1 Year: 2027	Trimester 1				
	Trimester 2				
	Trimester 3				
YEAR 2 Year: 2028	Trimester 1				
	Trimester 2				
	Trimester 3				

It is recommended students undertake SEN710 and SEN720 in consecutive trimesters.

Students must have successfully completed STP710 Career Tools for Employability (0-credit-point compulsory unit) before commencing SEL703 Professional Practice, SEN710 Engineering Project Initiation

#Students entering with a 3-year bachelor's degree in engineering science, science or technology are required undertake SEP791 Engineering Modelling and SEN700 Research Methodology in their first year of study instead of two open electives.

S751 COURSE RULES

- Must pass 16 credit points for course
- Must pass ALL units in {DAI001}
- Must pass ALL units in {SEE700, SEN710, SEN720, SEN723, SET721, STP710, SEL703}
- Must pass 16 credit points at level {7}
- Must pass 1 unit set(s) in {Civil Infrastructure Engineering (SP-S000110), Electrical and Renewable Energy Engineering (SP-S000111), Mechanical Engineering (SP-S000113), Robotics and Automation Engineering (SP-S000114), Smart Manufacturing (SP-S000115)}

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: _____	

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.

S751 MASTER OF ENGINEERING (PROFESSIONAL) SPECIALISATION UNIT SETS

CIVIL INFRASTRUCTURE ENGINEERING (SP-S000110)
SEN727 Tunnel and Underground Construction
SEN728 Transportation Infrastructure Systems
SEN725 Urban Stormwater Asset Design
SEN769 Advanced Structural Design
SEN770 Infrastructure Engineering
SEV702 Traffic and Transport Engineering

Completion Rule

- Must pass 6 credit points in {SEN727, SEN728, SEN725, SEN769, SEN770, SEV702}

ELECTRICAL AND RENEWABLE ENERGY ENGINEERING (SP-S000111)
SEE705 Energy Efficiency, Management and Market Analysis
SEE706 Power System Analysis
SEE716 Electrical Systems Protection
SEE717 Smart Grid Systems
SEE718 Renewable Energy Systems

SEE719 Microgrid Design, Integration and Management

Completion Rule

- Must pass 6 credit points in {SEE705, SEE706, SEE716, SEE717, SEE718, SEE719}

MECHANICAL ENGINEERING (SP-S000113)

SEJ751 Materials Performance and Durability

SEM700 Computational Fluid Dynamics

SEM711 Applied Dynamics and Product Development Technologies

SEM712 Advanced Modelling and Simulation

SEM721 Product Design and Development

SEM722 Advanced Manufacturing Technology

Completion Rule

- Must pass 6 credit points in {SEJ751, SEM700, SEM711, SEM712, SEM721, SEM722}

ROBOTICS AND AUTOMATION ENGINEERING (SP-S000114)

SEE701 Advanced Control Systems Engineering

SEE710 Industrial Automation

SEE711 Iot Systems Engineering

SEE712 Applied Signal Processing

SEN771 Intelligent Autonomous Robots

SIT720 Machine Learning

Completion Rule

- Must pass 6 credit points in {SEE701, SEE710, SEE711, SEE712, SEN771, SIT720}

SMART MANUFACTURING (SP-S000115)

SEE711 Iot Systems Engineering

SEM722 Advanced Manufacturing Technology

SEM724 Design for Additive Manufacturing

SEN771 Intelligent Autonomous Robots

SIT718 Real World Analytics

SIT742 Modern Data Science

Completion Rule

- Must pass 6 credit points in {SEE711, SEM722, SEM724, SEN771, SIT718, SIT742}