

# S550 GRADUATE CERTIFICATE OF ENGINEERING

## FACULTY OF SCIENCE, ENGINEERING AND BUILT ENVIRONMENT

### ADDITIVE MANUFACTURING SPECIALISATION SEQUENCE



FOR STUDENTS COMMENCING TRIMESTER 2 2021

Last updated 01/03/2021

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: SEE700 Safety Induction Program (0 credit points) AND STPO50 Academic Integrity (0 credit points)

<b>YEAR</b> <b>1</b> Year: 2021	Trimester 2				
	Trimester 3				
<b>YEAR</b> <b>2</b> Year: 2022	Trimester 1				
	Trimester 2				
	Trimester 3				

#### S550 COURSE RULES

- Must pass 4 credit points for course
- Must pass ALL units in {SEE700, STPO50}
- Must pass 1 unit set(s) in {Mechanical Engineering Design (SP-S000049), Mechatronics and Control Engineering (SP-S000051), Electrical and Renewable Energy Engineering (SP-S000076), Engineering Management (SP-S000077), Additive Manufacturing (SP-S000085), Civil Engineering (SP-S000086)}

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.

## S550 GRADUATE CERTIFICATE OF ENGINEERING SPECIALISATION UNIT SETS

### ADDITIVE MANUFACTURING (SP-S000085)

[SEM723 Simulation, Testing and Validation for Additive Manufacturing](#)

[SEM724 Design for Additive Manufacturing](#)

[SEM725 Materials for Additive Manufacturing](#)

[SEM726 Advanced 3d Modelling and Simulation for Additive Manufacturing](#)

#### Completion Rule

- Must pass 4 credit points in {SEM723, SEM724, SEM725, SEM726}

### CIVIL ENGINEERING (SP-S000086)

[SEN725 Urban Stormwater Asset Design](#)

[SEN727 Applied Rock Engineering](#)

[SEN728 Transportation Infrastructure Systems](#)

[SEN769 Advanced Structural Design](#)

#### Completion Rule

- Must pass 4 credit points in {SEN725, SEN727, SEN728, SEN769}

### ELECTRICAL AND RENEWABLE ENERGY ENGINEERING (SP-S000076)

[SEE705 Energy Efficiency and Demand Management](#)

[SEE716 Electrical Systems Protection](#)

[SEE717 Smart Grid Systems](#)

[SEE718 Renewable Energy Systems](#)

#### Completion Rule

- Must pass 4 credit points in {SEE705, SEE716, SEE717, SEE718}

### ENGINEERING MANAGEMENT (SP-S000077)

SEB711 Managing and Developing Innovation

SEB724 Engineering Leadership

SEB725 Engineering Entrepreneurship

Completion Rule

- Must pass 4 credit points in {SEB711, SEB724, SEB725}

#### **MECHANICAL ENGINEERING DESIGN (SP-S000049)**

SEJ751 Materials Performance and Durability

SEM711 Product Development Technologies

SEM712 Introduction to Finite Element Analysis

SEM722 Advanced Manufacturing Technology

Completion Rule

- Must pass 4 credit points in {SEJ751, SEM711, SEM712, SEM722}

#### **MECHATRONICS AND CONTROL ENGINEERING (SP-S000051)**

SEE701 Control Systems Engineering

SEE710 Instrumentation and Process Control

SEE711 Sensor Networks

SEE712 Embedded Systems

Completion Rule

- Must pass 4 credit points in {SEE701, SEE710, SEE711, SEE712}