

FACULTY OF SCIENCE, ENGINEERING AND BUILT ENVIRONMENT  
**S462 Bachelor of Mechanical Engineering (Honours)**  
 (2017 SAMPLE COURSE MAP)



Student ID:		Student name:	
Deakin email:		Preferred contact number:	
Date:	Year commenced:	eCOE:	Campus:

Last updated 11/04/2017

**SEJ010 - Introduction to Safety and Project Oriented Learning – 0 credit-point compulsory unit**

<b>YEAR 1</b> Year: <input type="text"/>	Trimester 1	SEJ101 Design Fundamentals (2cp)	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	SEB101 Engineering Fundamentals	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	SIT199 Applied Algebra and Statistics	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr
	Trimester 2	SEJ103 Materials Engineering Project (2cp)	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	SIT194 Introduction to Mathematical Modelling	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	SIT172 Programming for Engineers	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr
	Trimester 3*		<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr		<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr		<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr

**STP010 Introduction to Work Placements – 0 credit-point compulsory unit**

<b>YEAR 2</b> Year: <input type="text"/>	Trimester 1	SEM200 Machine Design (2cp)	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	SEM218 Fluid Mechanics	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	SEP291 Engineering Modelling	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr
	Trimester 2	SEJ201 Structural Design (2cp) (must have completed STP010 Introduction to Work Placements – 0 credit points)	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	SEM216 Stress and Failure Analysis	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	SEM202 Thermodynamics	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr
	Trimester 3*		<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr		<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr		<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr

<b>YEAR 3</b> Year: <input type="text"/>	Trimester 1	SEM300 Thermo-Fluid System Design (2cp)	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	SED304 Product Development	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	SEM313 Manufacturing	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr
	Trimester 2	SEM301 Industrial Control (2cp)	<input checked="" type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	SEM302 Advanced Stress Analysis	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	SEM327 Dynamics of Machines	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr
	Trimester 3*		<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr		<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr		<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr

**SEP490 Engineering Work Experience (12 weeks) (offered in T1, T2, T3)**

<b>YEAR 4</b> Year: <input type="text"/>	Trimester 1	SEJ441 Engineering Project A (2cp) ~	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	SEM400 Computational Fluid Dynamics (available from 2018)	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	Engineering elective	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr
	Trimester 2	SEJ446 Engineering Project B (2cp) ~	<input checked="" type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	SEM406 Advanced Modelling and Simulation (2017: T1 and T2, 2018: T2 only)	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr	Engineering elective	<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr
	Trimester 3*		<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr		<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr		<input type="checkbox"/> E <input type="checkbox"/> P <input type="checkbox"/> Cr

\* Trimester 3 is optional.

~ Note: Students are expected to undertake SEJ441 and SEJ446 in consecutive trimesters. Students will be required to seek approval from the unit chair if they are unable to complete SEJ441 and SEJ446 consecutively.

This course map is for illustrative purposes only. Students must meet the course rules and unit requirements as set out in the Handbook ([deakin.edu.au/handbook](http://deakin.edu.au/handbook)). Deakin University reserves the right to alter, amend or delete details of course offerings and other information published herein. Students are advised to check the relevant Handbook online (at the above link) for the most up-to-date information relating to their course structure and available units.

**KEY**

<b>B</b> Melbourne Burwood Campus	<b>E</b> Enrolled/planned
<b>WF</b> Geelong Waterfront Campus	<b>P</b> Passed
<b>WP</b> Geelong Waurn Ponds Campus	<b>Cr</b> Credit
<b>WB</b> Warrnambool Campus	
<b>C</b> Cloud Campus	

Student signature:

Course adviser:

**See page 2 for Course Progress Check instructions**

# S462 Bachelor of Mechanical Engineering (Honours)

## (2017 SAMPLE COURSE MAP)

### Course Progress Check

- 1 Please indicate what year you want to complete your degree by:   
At the end of which Trimester:  1  2  3
- 2 Please indicate whether you would like to study in Trimester 3:  No  Yes  
*If yes, please indicate number of units:  Please indicate the year you intend to commence Trimester 3:*
- 3 Mark the check boxes of any units you intend to study (enrolled/planned), have passed or received credit for.  
Each unit should only be ticked once.
- 4 Submit this form to the Faculty Student Centre or send it via email to: [sebe@deakin.edu.au](mailto:sebe@deakin.edu.au)

**A Student Adviser will check your units and will confirm your course plan or provide advice as needed.**

For course rules please visit: [deakin.edu.au/handbook](http://deakin.edu.au/handbook)

#### Recommended Engineering elective units:

SEM401 Materials Performance and Durability  
SEM402 Advanced Manufacturing (available from 2018)

#### Course Rules

The course comprises a total of 32 credit points, which must include the following:

- 30 credit points of core units and 2 Engineering elective units (1 credit point each)
- completion of SEJ010 Introduction to Safety and Project Oriented Learning (0 credit-point compulsory unit)
- completion of STP010 Introduction to Work Placements (0 credit-point compulsory unit)
- a maximum of 10 credit points at Level 1
- a minimum 6 credit points at level 4
- a minimum 22 credit points combined over levels 2, 3 and 4
- completion of SEP490 – 12 Week Engineering Work Experience (0 credit points)
- Cloud Campus enrolled students are required to attend campus mode conducted activities during the corresponding Intensive Week in a trimester. Attendance at campus mode activities is linked to assessment requirements within the Engineering programmes, failure to attend will result in not meeting the hurdle requirement of the respective assessment. Thus, a fail grade shall be awarded for the respective affected unit(s) for that particular trimester.

For any further course advice and assistance, please feel free to contact the Faculty of Science, Engineering and Built Environment Student Services office:

Burwood (Melbourne): Building L, Phone: 03 9244 6699  
Waterfront (Geelong): Level 4, Building D, Phone: 03 5227 8300  
Wairn Ponds (Geelong): Level 3, Building KA, Phone: 03 5227 2463  
Warrnambool: Level 2, Building J, Phone: 03 5563 3327

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