4641 Bachelor of Commerce and Bachelor of Aerospace Engineering (Honours) 2015

Aerospace Engineering

Stage one: 48 credit points (24, 30 or 36 credit points Engineering and 12-24 credit points Commerce)

- Course advice is required for enrolment in stage one enrolment plan depends on the need for foundation units
- Level 2 electives may be undertaken following successful completion of 24 credit points

Core Units (24 credit points) – all students complete:	Foundation units (0, 6 or 12 credit points)
ENG1060 Computing for engineers ENG1091 Mathematics for engineering ENG1001 Engineering design: lighter, faster, stronger ENG1002 Engineering design: cleaner, safer, smarter	Students who have not completed VCE units 3&4 of Chemistry, Physics and/or Specialist Mathematics must complete one or two units from: ENG1070 Foundation chemistry ENG1090 Foundation mathematics ENG1080 Foundation physics

Elective units

Where foundation units are not required in first year, elective units are undertaken at stage four or five. Students who complete two foundation units do not select any level 4 electives. Students who complete one foundation unit complete one level 4 electives. Students who did not require a foundation unit complete two level 4 electives.

Stage one					(48 credit points)	
	Sem	Engineering stage one	Engineering stage one	Engineering	Engineering	
	1	core unit	core unit	foundation unit or	foundation unit or	
				Commerce unit	Commerce unit	
	Sem	Engineering stage one	Engineering stage one	Commerce unit	Commerce unit	
	2	core unit	core unit			

Stage two ((54 credit points)	
	Sem	ENG2091 Advanced	MAE2401 Aircraft	Commerce unit	Commerce unit	
	1	engineering	structures I			
		mathematics A				
	Sem	MAE2402	MAE2405 Aircraft	Commerce unit	Commerce unit	Commerce unit
	2	Thermodynamics and	performance			
		heat transfer				

Stage three (!			(54 credit points)		
Sem	MEC2401 Dynamics 1	MEC2402 Engineering	Commerce unit	Commerce unit	Commerce unit
1		design I			
Sem	ENG2092 Advanced	MAE2403 Aerospace	MAE2404	Commerce unit	
2	engineering	computational	Aerodynamics 1		
	mathematics B	mechanics			

Stage four ((48 credit points)
Sem	MAE3401	MAE3404 Flight	MAE3407 Aircraft	Commerce unit	
1	Aerodynamics II	vehicle dynamics	structures II		
Sem	MAE3402 Aerospace	MAE3405 Flight	MAE3406 Aerospace	MAE3408 Aerospace	
2	design project	vehicle propulsion	materials	control	

Stage five			(48 credit points)		
Sem	MAE4404 Aerospace	MEC4426 computer-	Engineering elective	Commerce unit	
1	practices	aided design	from list below or		
			Commerce unit		
Sem	MEC4401 final year	MAE4408 Damage	Engineering elective	Commerce unit	
2	project	tolerance and	from list below or		
		airworthiness	Commerce unit		

Aerospace elective units:

MAE4407 Instrumentation and avionics MAE4409 wing design (preferred elective) MAE4965 Advanced aerodynamics and turbulence MAE4980 Aircraft engines

MEC4402 final year project – Thesis (students need to have achieved an aggregate score of at least 70% to

enrol in this unit)

MEC4403 Research project (subject to departmental approval

MEC4418 Control systems
MEC4428 Advanced dynamics
MEC4446 composite structures

 $\label{eq:mec4447} \textbf{MEC4447 computers in fluids and energy}$

MEC4459 wind engineering

4641 Bachelor of Aerospace Engineering (Honours) and Bachelor of Commerce 2015

Notes:

Overleading	Students will permally expect to complete the course in five years. This is achieved by		
Overloading	Students will normally expect to complete the course in five years. This is achieved by		
	undertaking one additional unit per semester twice in the later stages of the degree		
	Overloading is not compulsory, students may choose to complete in 5 ½ years		
Credit points	Unless specified, all units are worth 6 credit points		
	Bachelor of Aerospace Engineering 26 units x 6cp = Total of 156 credit points		
	Bachelor of Commerce 16 units x 6cp = Total of 96 credit points (252cp)		
Unit requisites	All pre-requisite and co-requisite requirements must be undertaken in order to be able to enrol		
	into a specific unit		
Duration of degree	5 years full-time, 10 years part-time		
Time limit	Time limit = 10 years. Students have ten years in which to complete this award from the time		
	they commence first year. Periods of intermission are counted as part of the ten years.		
Course advice	www.eng.monash.edu.au/current-students/course-advice.html		
	www.buseco.monash.edu.au/student/		
Monash University handbook	Students should follow the course structure for the year the course was commenced		
•	http://monash.edu/pubs/2015handbooks/courses/index-byfaculty-eng.html		

All information correct at publication but may be subject to change - 14 January 2015 Faculty of Engineering, Monash University CRICOS code 053186B