

# 2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) — Semester 2 Start

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Study Plan Notes

#### **Program structure**

This is a four-year program with electives commencing in the second year. The final year contains the two-semester Research Project capstone course. Students may follow study plans specifying electives to complete a 24-unit Major and/or a 12-unit Minor within the program. Successful completion of the Program with a Major requires completion of all courses specified in that Major's study plan. All Majors consist of the same number of units and fill available electives slots, with five remaining to be chosen by the student.

#### **Alternative courses**

There are a small number of alternative course offerings that are not indicated in the study plans. TECH 1006 may be taken as a semester 2 alternative to CEME 1004. CEME 2001 may be taken as a semester 1 alternative to MECH ENG 2002. ENG 3004 and ENG 3005 may be taken in either semester. The consecutive pair ENG 4001A and ENG 4001B may commence in either semester.

#### **Hands on Training**

All Mechanical Engineering students are required to complete the ECMS Hands-On Training courses, information regarding this will be communicated via email to students.

#### Internships

All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies. Internships are self-sourced and further information can be found on the Engineering Internships web page: <a href="https://ecms.adelaide.edu.au/study-with-us/student-support/internships/engineering">https://ecms.adelaide.edu.au/study-with-us/student-support/internships/engineering</a>.

#### **General Electives**

How to choose an elective course in your area of interest? Please refer to the steps via the link: <u>https://ecms.adelaide.edu.au/study-with-us/student-support/enrolment</u>

#### **Program Rules**

For academic program rules please refer to the following website: https://calendar.adelaide.edu.au/faculty/ecms

#### Information and Enrolment Advice

Ask ECMS Email: <u>askecms@adelaide.edu.au</u> Website: https://ecms.adelaide.edu.au/study-with-us/student-support



				110 110/01
		Year	1	
S 1				
S 2	MATHS 1011 Dathematics IA	^ENG 1001       □         Introduction to Engineering       □	CHEM ENG 1009	TECH 1006 Engineering Mechanics Technology
		Year	2	
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics			
S 1	MATHS 1012 Dathematics IB	ENG 1002 Programming (Matlab and C)	MECH ENG 2100	ELEC ENG 1101 Electronic Systems
S 2	MATHS 2107 Statistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design	MECH ENG 2019 Dynamics & Control I	MECH ENG 2101 Mechatronics IM
		Year	3	
S 1	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2021 Thermo-Fluids I	Major course / Elective Year 2 (see elective table) <u>OR</u> General Elective	
S 2	ENG 3004 Systems Engineering & Industry Practice	MECH ENG 3111 Countries Acoustics and Vibrations	Major course / Elective Year 3 (see elective table) <u>OR</u> General Elective	Major course / Elective Year 3 (see elective table)
		Interns	ship	
	All Engineering students commencing	from 2019 are required to complete a minimur	n of 8 weeks of <u>internship</u> during the course of th	neir studies – see note on page 2.
		Year	4	
S 1	ENG 3005 Research Method & Project	MECH ENG 3102 Heat Transfer & Thermodynamics	Major course / Elective Year 3 (see elective table)	Major course / Elective Year 3 (see elective table)
S 2	ENG 4001A Cesearch Project Part 1	Major course / Elective Year 4 (see elective table)	Major course / Elective Year 4 (see elective table)	Major course / Elective Year 4 (see elective table)
		Year	5	
S 1	ENG 4001B Research Project Part 2	Major course / Elective Year 4 (see elective table)	Major course / Elective Year 4 (see elective table)	Major course / Elective Year 4 (see elective table)

Core Course Major course / Elective (see table)

<sup>^</sup> Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

\* If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact <u>askecms@adelaide.edu.au</u> to discuss an alternative study plan.

No Major



### Aerospace Engineering Major

		Y	'ear	1			
S 1							
S 2	MATHS 1011 Mathematics IA	^ENG 1001 Introduction to Engineering		CHEM ENG 1009 Materials I		TECH 1006 Engineering Mechanics Technology	
		Y	'ear	2			
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics	]					
S 1	MATHS 1012 Control Mathematics IB	ENG 1002 Programming (Matlab and C)		MECH ENG 2100 Design Practice		ELEC ENG 1101 Electronic Systems	
S 2	MATHS 2107 Statistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I		MECH ENG 2101 Mechatronics IM	
		Ŷ	'ear	3			
S 1	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2021 Thermo-Fluids I		MECH ENG 2020 Materials & Manufacturing			
S 2	ENG 3004 Systems Engineering & Industry Practice	MECH ENG 3111 Acoustics and Vibrations		MECH ENG 3101 Applied Aerodynamics		MECH ENG 3104 Space Vehicle Design	
		Inte	erns	hip	_		
	All Engineering students commencir	g from 2019 are required to complete a mini	mun	n of 8 weeks of <u>internship</u> during the course o	f th	eir studies – see note on page 2.	
		Y	'ear	4			-
S 1	ENG 3005 Research Method & Project	MECH ENG 3102 Heat Transfer & Thermodynamics		MECH ENG 3100 Aeronautical Engineering		Elective Year 3 (see elective table)	
S 2	ENG 4001A Research Project Part 1	MECH ENG 4108 Aircraft Design		Elective Year 4 [		Elective Year 4 (see elective table)	
		Ŷ	'ear	5			
S 1	ENG 4001B Research Project Part 2	MECH ENG 4106 Aerospace Propulsion		Elective Year 4 [		Elective Year 4 (see elective table)	

Core Course Major course Elective (see table)

<sup>^</sup> Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.



Defence Systems	Major
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			Year	r 1	1			
S 1								
S 2	MATHS 1011 Mathematics IA		^ENG 1001 □ □		CHEM ENG 1009 Materials I		TECH 1006 Engineering Mechanics Technology	
			Year	r 2	2		-	
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics							
S 1	MATHS 1012 Mathematics IB		ENG 1002 Programming (Matlab and C)		MECH ENG 2100 Design Practice		ELEC ENG 1101 Electronic Systems	
S 2	MATHS 2107 Statistics & Numerical Methods II		MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I		MECH ENG 2101 Mechatronics IM	
			Year	r 3	3			
S 1	MATHS 2106 Differential Equations for Engineers II		MECH ENG 2021		MECH ENG 2020 Materials & Manufacturing			-
S 2	ENG 3004 Systems Engineering & Industry Practice		MECH ENG 3111 Countries Co		ENG 3305 Human Factors for Decision Making		Elective Year 3 (see elective table)	
			Intern	ish	hip			
	All Engineering students commenc	ing	from 2019 are required to complete a minimu	m	of 8 weeks of <u>internship</u> during the course	e of th	neir studies – see note on page 2.	
	_		Year	r 4	4			<u> </u>
S 1	ENG 3005 Research Method & Project [ Management		MECH ENG 3102 Heat Transfer & Thermodynamics		MECH ENG 3026 Advanced Mechanics of Materials		POLIS 1104 Introduction to Comparative Politics	
S 2	ENG 4001A Research Project Part 1		ENG 4020 Complex Systems Engineering		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)	
			Year	r 5	5			
S 1	ENG 4001B Research Project Part 2		ENG 4010 Defence Leadership		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)	

Core Course Major course Elective (see table)

<sup>^</sup> Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.



### Mechanical Engineering Major

			Year	1			
S 1							
S 2	MATHS 1011 C	^ENG 1001 Introduction to Engineering		CHEM ENG 1009 Materials I		TECH 1006 Engineering Mechanics Technology	
			Year	2	_		
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics						
S 1	MATHS 1012 C	ENG 1002 Programming (Matlab and C)		MECH ENG 2100 Design Practice		ELEC ENG 1101 Electronic Systems	
S 2	MATHS 2107 Statistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I		MECH ENG 2101 Mechatronics IM	
			Year	3			
S 1	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2021 Thermo-Fluids I		MECH ENG 2020 Materials & Manufacturing			
S 2	ENG 3004 Systems Engineering & Industry Practice	MECH ENG 3111 Acoustics and Vibrations		MECH ENG 3101 Applied Aerodynamics		Elective Year 3 (see elective table)	
			Interns	ship	-		-
	All Engineering students commenci	ng from 2019 are required to complete	e a minimur	n of 8 weeks of <u>internship</u> during the co	urse of th	eir studies – see note on page 2.	
			Year	4			
S 1	ENG 3005 Research Method & Project [ Management	MECH ENG 3102 Heat Transfer & Thermodynamics		MECH ENG 3026 Advanced Mechanics of Materials		Elective Year 3 (see elective table)	
S 2	ENG 4001A Research Project Part 1	Elective Year 4 (see elective table)		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)	
			Year	5			
S 1	ENG 4001B Research Project Part 2	MECH ENG 4111 CFD for Engineering Applications		MECH ENG 4118 Finite Element Analysis of Structures		MECH ENG 4121 Materials Selection & Failure Analysis	

Core Course Major course Elective (see table)

^ Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.



### Mechatronics and Robotics Major

		Year	1	
S 1				
S 2	MATHS 1011 Dathematics IA	^ENG 1001     □       Introduction to Engineering     □	CHEM ENG 1009 Materials I	TECH 1006 Engineering Mechanics Technology
		Year	2	
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics			
S 1	MATHS 1012 Dathematics IB	ENG 1002 Programming (Matlab and C)	MECH ENG 2100	ELEC ENG 1101
S 2	MATHS 2107 Statistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design	MECH ENG 2019 Dynamics & Control I	MECH ENG 2101 Control
		Year	3	
S 1	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2021 Thermo-Fluids I	ELEC ENG 2105 Electronic Circuits M	
S 2	ENG 3004 Systems Engineering & Industry Practice	MECH ENG 3111 Acoustics and Vibrations	MECH ENG 3032 International Micro-Controller Programming	MECH ENG 4102
		Intern	ship	
	All Engineering students commencing	g from 2019 are required to complete a minimu	m of 8 weeks of <u>internship</u> during the course of t	heir studies – see note on page 2.
		Year	4	
S 1	ENG 3005 Research Method & Project	MECH ENG 3102 Heat Transfer & Thermodynamics	MECH ENG 3106 Strength Strengt	Elective Year 3 (see elective table)
S 2	ENG 4001A Research Project Part 1	Elective Year 4 See elective table)	Elective Year 4 (see elective table)	Elective Year 4 See elective table)
		Year	5	
S 1	ENG 4001B Research Project Part 2	MECH ENG 4124 Robotics M	MECH ENG 4080 Ordern Control Systems	Elective Year 4 (see elective table)

Core Course Major course Elective (see table)

^ Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.



### Medical Technologies Major

			Yea	ar :	1			
S 1								
S 2	MATHS 1011 Mathematics IA		^ENG 1001 Introduction to Engineering		CHEM ENG 1009 Materials I		TECH 1006 Engineering Mechanics Technology	
			Yea	ar 2	2		-	-
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics							
S 1	MATHS 1012 C Mathematics IB		ENG 1002 Programming (Matlab and C)		MECH ENG 2100 Design Practice		ELEC ENG 1101 Electronic Systems	
S 2	MATHS 2107 Statistics & Numerical Methods II		MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I		MECH ENG 2101 Mechatronics IM	
			Yei	ar 3	3			
S 1	MATHS 2106 Differential Equations for Engineers II		MECH ENG 2021 Thermo-Fluids I		ANAT SC 1102 Human Anatomy and Physiology IA			-
S 2	ENG 3004 Systems Engineering & Industry Practice		MECH ENG 3111 Acoustics and Vibrations		ELEC ENG 3113 Principles of Medical Imaging		Elective Year 3 (see elective table)	
			Inter	ns	hip		-	
	All Engineering students commenci	ng	from 2019 are required to complete a minim	um	n of 8 weeks of <u>internship</u> during the course	e of th	neir studies – see note on page 2.	
	_		Yea	ar 4	4			<u> </u>
S 1	ENG 3005 Research Method & Project [ Management		MECH ENG 3102 Heat Transfer & Thermodynamics		ENG 3101 Introduction to Medical Technologies		PHYSIOL 2510 Physiology IIA: Heart, Lung & Neuromuscular Systems	
S 2	ENG 4001A Research Project Part 1		MECH ENG 4101 Biomechanical Engineering		ELEC ENG 4115 Biomedical Instrumentation		Elective Year 4 (see elective table)	
			Yea	ar !	5			
S 1	ENG 4001B Research Project Part 2		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)	

Core Course Major course Elective (see table)

^ Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.



## Renewable Energy Major

		Y	ear	1			
S 1							
S 2	MATHS 1011 Common Mathematics IA	^ENG 1001 Introduction to Engineering		CHEM ENG 1009 Materials I		TECH 1006 Engineering Mechanics Technology	
		Y	ear	2			
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics						
S 1	MATHS 1012 Constraints IB	ENG 1002 Programming (Matlab and C)		MECH ENG 2100 Design Practice		ELEC ENG 1101 Electronic Systems	
S 2	MATHS 2107 Statistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I		MECH ENG 2101 Mechatronics IM	
		Y	ear	3			
S 1	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2021 Thermo-Fluids I		MECH ENG 2020 Materials & Manufacturing			-
S 2	ENG 3004 Systems Engineering & Industry Practice	MECH ENG 3111 Acoustics and Vibrations		Elective Year 3 (see elective table)		Elective Year 3 (see elective table)	
		Inte	erns	ship			
	All Engineering students commencing	g from 2019 are required to complete a minir	mun	n of 8 weeks of <u>internship</u> during the course of a second s	of th	eir studies – see note on page 2.	
		Y	ear				
S 1	ENG 3005 Research Method & Project	MECH ENG 3102 Heat Transfer & Thermodynamics		ENTREP 3006 Energy Management, Economics & Policy		Elective Year 3 (see elective table)	
S 2	ENG 4001A Research Project Part 1	CHEM ENG 4048 Biofuels, Biomass and Wastes		ELEC ENG 4111 Distributed Generation Technologies		Elective Year 4 (see elective table)	
		Y	ear	5			
S 1	ENG 4001B Research Project Part 2	MECH ENG 4064 Renewable Power Technologies		MECH ENG 4112 Combustion Technologies & High Temperature Processes		Elective Year 4 (see elective table)	

Core Course Major course Elective (see table)

<sup>^</sup> Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

\* If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact askecms@adelaide.edu.au to discuss an alternative study plan.

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### Smart Technologies Major

			Year	1			
S 1							
S 2	MATHS 1011 Mathematics IA	^ENG 1001 Introduction to Engineering		CHEM ENG 1009 Materials I		TECH 1006 Engineering Mechanics Technology	
			Year	2			
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics						
S 1	MATHS 1012 Mathematics IB	ENG 1002 Programming (Matlab and C)		MECH ENG 2100 Design Practice		ELEC ENG 1101 Electronic Systems	
S 2	MATHS 2107 Statistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I		MECH ENG 2101 Mechatronics IM	
			Year	3			
S 1	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2021 Thermo-Fluids I		COMP SCI 1102 Object Oriented Programming			-
S 2	ENG 3004 Systems Engineering & Industry Practice	MECH ENG 3111 Acoustics and Vibrations		MECH ENG 3032 Micro-Controller Programming		Elective Year 3 (see elective table)	
			Interns	ship	-		-
	All Engineering students commenci	ng from 2019 are required to complete a	minimur	n of 8 weeks of <u>internship</u> during the cou	rse of th	eir studies – see note on page 2.	
			Year	4			<u>.</u>
S 1	ENG 3005 Research Method & Project [ Management	MECH ENG 3102 Heat Transfer & Thermodynamics		COMP SCI 2103 Algorithm Design & Data Structures		Elective Year 3 (see elective table)	
S 2	ENG 4001A Research Project Part 1	ELEC ENG 4107 Autonomous Systems		COMP SCI 3012 Distributed Systems		Elective Year 4 (see elective table)	
			Year	5			
S 1	ENG 4001B Research Project Part 2	COMP SCI 3001 Computer Networks & Applications		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)	

Core Course Major course Elective (see table)

<sup>^</sup> Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.



### Sports Engineering Major

			Year	1			
S 1							
S 2	MATHS 1011 Mathematics IA	^ENG 1001 Introduction to Engineering		CHEM ENG 1009 Materials I		TECH 1006 Engineering Mechanics Technology	
	_		Year	2			
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics						
S 1	MATHS 1012 Mathematics IB	ENG 1002 Programming (Matlab and C)		MECH ENG 2100 Design Practice		ELEC ENG 1101 Electronic Systems	
S 2	MATHS 2107 Statistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I		MECH ENG 2101 Mechatronics IM	
			Year	3			
S 1	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2021 Thermo-Fluids I		ANAT SC 1102 Human Anatomy and Physiology IA			
S 2	ENG 3004 Systems Engineering & Industry Practice	MECH ENG 3111 Acoustics and Vibrations		MECH ENG 3101 Applied Aerodynamics		Elective Year 3 (see elective table)	
			Interns	ship	-	-	
	All Engineering students commencing	ng from 2019 are required to complete a r	minimur	n of 8 weeks of <u>internship</u> during the cou	rse of th	neir studies – see note on page 2.	
			Year	4	<u> </u>		
S 1	ENG 3005 Research Method & Project	MECH ENG 3102 Heat Transfer & Thermodynamics		MECH ENG 3026 Advanced Mechanics of Materials		MECH ENG 3112 Sports Engineering	
S 2	ENG 4001A Research Project Part 1	MECH ENG 4101 Biomechanical Engineering		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)	
			Year	5			
S 1	ENG 4001B Research Project Part 2	MECH ENG 4104 Advanced Topics in Fluid Mechanics		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)	

Core Course Major course Elective (see table)

^ Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.



## Mechanical Engineering Electives

Not all Majors and Double Degrees permit electives in every semester slot.

		Yea	ar 2		
<b>S1</b>	MECH ENG 2020	Materials & Manufacturing			
		Yea	ar 3		
<b>S</b> 1	MECH ENG 3026 MECH ENG 3100 MECH ENG 3103 MECH ENG 3106 MECH ENG 3112	Advanced Mechanics of Materials Aeronautical Engineering Advanced Manufacturing Systems Mechatronics II Sports Engineering	<b>S</b> 2	MECH ENG 3032 MECH ENG 3101 MECH ENG 3104 ELEC ENG 2106 ELEC ENG 3112 ENG 3305 ENTREP 3900	Micro-Controller Programming Applied Aerodynamics Space Vehicle Design Vector Calculus & Electromagnetics Electric Drive Systems M Human Factors for Decision Making eChallenge
WIN	PROJMGNT 3030	Project Logistics and Supply Chains		I	
		Yea	ar 4		
<b>S</b> 1	MECH ENG 4064 MECH ENG 4080 MECH ENG 4104 MECH ENG 4106 MECH ENG 4111 MECH ENG 4112 MECH ENG 4118 MECH ENG 4121 MECH ENG 4124	Renewable Power Technologies Modern Control Systems Advanced Topics in Fluid Mechanics Aerospace Propulsion CFD for Engineering Applications Combustion Technologies & High Temperature Processes Finite Element Analysis of Structures Materials Selection & Failure Analysis Robotics M	S2	MECH ENG 4100 MECH ENG 4101 MECH ENG 4102 MECH ENG 4105 MECH ENG 4107 MECH ENG 4108 <del>MECH ENG 4123</del> ENG 3201 ENG 4020	Advanced Topics in Aerospace Engineering Biomechanical Engineering Advanced PID Control Advanced Vibrations Air conditioning Aircraft Design <del>Advanced Digital Control</del> ( <i>not running in 2022</i> ) Essentials of Humanitarian Practice Complex Systems Engineering
SUM	MECH ENG 4115 MECH ENG 4126	Engineering Acoustics Topics in Welded Structures		1	



### Mechanical Engineering Minors

Minors are undertaken by taking 12 units of courses within one of the following streams to replace the electives offered listed on the previous page. If they are not listed on the previous page, the courses below cannot contribute as Mechanical Engineering electives unless the full 12-unit Minor is awarded.

### Humanitarian Engineering Minor

#### One course of each labelled **A**, **B**, **C**, **D** must be taken.

Summer			Winter		
A	SPATIAL 3007WT	GIS for Environmental Management III	A B	SPATIAL 3020WT PROJMGMT 3030	GIS for Agriculture & Natural Resource III Project Logistics and Supply Chains
Semester 1			Semester 2		
С	DEVT 2100	Poverty and Social Development	C D	DEVT 2101 ENG 3201	Empowerment & Development: Community & Gender Essentials of Humanitarian Practice

#### Entrepreneurship Minor

One course of each labelled **A**, **B**, **C**, **D** must be taken.

				Summer		
			Α	ENTREP 3000	Innovation and Creativity	
Semester 1				Semester 2		
В	ENTREP 3901	Tech eChallenge	Α	ENTREP 3000	Innovation and Creativity	
С	ENTREP 3015	Entrepreneurial Leadership	В	ENTREP 3900	eChallenge	
			D	ENTREP 3011	Startup Methodologies	