

PROGRAM PLAN

BACHELOR OF RENEWABLE ENERGY ENGINEERING (HONOURS)

PROGRAM OPTION:
Full time and Part Time

START DATE:
Semester 1, 2021

LOCATION:
Callaghan

This Program Plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek advice from your Academic Program Advisor to ensure you remain on track.

 [PROGRAM HANDBOOK](#)

 [COURSE HANDBOOK](#)

NAME:

STUDENT NO.:

COURSE STATUS KEY

C = Completed

En = Enrolled

NS = Not Started

YEAR	SEMESTER	COURSE	DESCRIPTION	CATEGORY
YEAR 1	SEMESTER 1	CHEM1010	Introductory Chemistry 1	CORE
		ENGG1003	Introduction to Procedural Programming	CORE
YEAR 1	SEMESTER 2	CHEE1000	Process Engineering Principals	CORE
		ELEC1310	Introduction to Electrical Engineering	CORE
YEAR 2	SEMESTER 1	ENGG1500	Introduction to Professional Engineering	CORE
		MATH1110	Mathematics for Engineering, Science and Technology 1	CORE
YEAR 2	SEMESTER 2	MATH1120	Mathematics for Engineering, Science and Technology 2	CORE
		PHYS1210	Advanced Physics 1	CORE
YEAR 3	SEMESTER 1	CHEE2325	Thermodynamics of Chemical Processes	CORE
		CHEE2695	Energy Transfer and Technologies	CORE
YEAR 3	SEMESTER 2	ELEC2320	Electrical and Electronic Circuits	CORE
		MATH2310	Calculus of Science and Engineering	CORE
YEAR 4	SEMESTER 1	ENGG3500	Managing Engineering Projects	CORE
		RENE3000	Solar and Wind	CORE
YEAR 4	SEMESTER 2	ELEC3160	Principles and Design of Off-Grid Power Systems	CORE
		ELEC3251	Power Electronics and Renewable Energy Systems	CORE
		ELECTIVE PATHWAY		
		ELECTIVE PATHWAY		
YEAR 4	SEMESTER 1	CHEE4945A	Design Project A	CORE
		RENE4000	Energy Storage Systems <i>First Offering in 2022</i>	CORE
YEAR 4	SEMESTER 2	RENE4900A	Renewable Energy Engineering Project A <i>First Offering in 2022</i>	CORE
		CHEE4945B	Design Project B	CORE
		ELECTIVE PATHWAY		
		ELECTIVE PATHWAY		
		RENE4900B		CORE
		Renewable Energy Engineering Project B <i>First Offering in 2022</i>		

COMPULSORY PROFESSIONAL PRACTICE: INDUSTRIAL EXPERIENCE – 12 WEEKS

PROGRAM PLAN

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To be eligible to graduate make sure you have completed 320 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- **Core courses** – 280 units

Enrolment in MATH courses is based on your assumed knowledge. To find out which MATH courses you should enrol in please see the [Enrolling in Maths information](#). More information in your [Program Handbook](#).

Please also note the following regarding the multi-term sequence courses research courses:

- CHEE4945A Design Project A (10 units) and CHEE4945B Design Project B (10 units) must be completed in consecutive terms.
- RENE4900A Renewable Energy Engineering Project A (10 units) and RENE4900B Renewable Energy Engineering Project B (10 units) must be completed in consecutive terms.
- **Elective Pathway** – 40 units, visit the [Program Handbook](#) for more information. Students who do not meet the enrolment requisite for MATH1110 and must take MATH1002 and will count MATH1002 as one of their 10 unit elective courses with 30 units total remaining. Contact Programadvice@newcastle.edu.au for further advice regarding your Program Plan if you need MATH1002.
- **Students must not exceed 120 units at 1000 level in this program.**
- **It is also a requirement that students complete a total of 12 weeks of [industrial experience](#).**
- **The duration of this program is 4 year full-time (40 units per semester) or part-time equivalent.**



Some courses have assumed knowledge and/or requisites, please refer to the individual [Course Handbook](#). Please refer to the [Program Handbook](#) for specific information on program structure. If you are intending varying from this program plan please seek advice from your [Academic Program Advisor](#).