

Bachelor of Engineering Technology (Systems and Security) and Bachelor of Science (Physics)
2023 Study Planner



Science & Engineering

Semester 1 Start:

First Level	Semester 1	ENGR1401 Professional Skills	ENGR1711 Engineering Design	ENGR1721 Engineering Programming	MATH1701 Algebra and Functions
	Semester 2	ENGR1201 Electronics	ENGR1722 Engineering Materials and Systems	COMP2711 Computer Programming 2	MATH1121 Mathematics 1A
Second Level	Semester 1	ENGR2711 Engineering Mathematics	ENGR2731 Electronic Circuits	MATH1122 Mathematics 1B	PHYS1101 Physics 1A
	NS1	ENGR2705 Working in Secure and Sensitive Professions (0 Units)			
	Semester 2	COMP2712 Neural Networks and Machine Learning	ENGR2722 Signals and Systems	ENGR2702 Electrical Circuits and Machines	PHYS1102 Physics 1B
Third Level	Semester 1	ENGR3721 Or ENGR3731	MATH2702 Linear Algebra and Differential Equations	MATH2711 Multivariable Calculus	PHYS2001 Quantum and Nuclear Physics
	Semester 2	Must choose MATH3711 Complex Analysis	PHYS2712 Thermodynamics and Energy Systems	MATH3712 Partial Differential Equations	PHYS3702 Solid State Physics and Optoelectronic
Fourth Level	Semester 1	ENGR3891 Electromagnetic Technologies, Systems and Security	ENGR7710A Engineering Project A (4.5/9 units)	ENGR2861 Electromagnetics and Electromagnetic Waves	PHYS2702 Classical Physics
	NS1	ENGR3750 Workplace Preparation (0 units)			
	Semester 2	ENGR7782 Systems and Security in the Information Age	ENGR7710B Engineering Project B (4.5/9 units)	ENGR9704 Engineering Management	ENGR9405 Engineering Work Experience

Semester 2:

First Level	Semester 2	ENGR1401 Professional Skills	MATH1701 Algebra and Functions	ENGR1201 Electronics	ENGR1722 Engineering Materials and Systems
	Semester 1	ENGR1711 Engineering Design	ENGR1721 Engineering Programming	MATH1121 Mathematics 1A	PHYS1101 Physics 1A
Second Level	NS1	ENGR2705 Working in Secure and Sensitive Professions (0 Units)			
	Semester 2	COMP2711 Computer Programming 2	COMP2712 Neural Networks and Machine Learning	MATH1122 Mathematics 1B	PHYS1102 Physics 1B
	Semester 1	ENGR2711 Engineering Mathematics	ENGR2731 Electronic Circuits	MATH2702 Linear Algebra and Differential Equations	MATH2711 Multivariable Calculus
Third Level	Semester 2	ENGR2722 Signals and Systems	ENGR2702 Electrical Circuits and Machines	PHYS2712 Thermodynamics and Energy Systems	MATH3712 Partial Differential Equations
	Semester 1	ENGR3721 Or ENGR3731	ENGR3891 Electromagnetic Technologies, Systems and Security	PHYS2001 Quantum and Nuclear Physics	ENGR2861 Electromagnetics and Electromagnetic Waves
Fourth Level	NS1	ENGR3750 Workplace Preparation (0 units)			
	Semester 2	ENGR9704 Engineering Management	ENGR7782 Systems and Security in the Information Age	ENGR7710A Engineering Project A (4.5/9 units)	PHYS3702 Solid State Physics and Optoelectronic
	Semester 1	ENGR9405 Engineering Work Experience	ENGR7710B Engineering Project B (4.5/9 units)	Must choose MATH3702 Methods of Applied Mathematics	PHYS2702 Classical Physics

Key:

BENG TSS Topics	Compulsory topic
BSCPS Topics	Compulsory topic

Please note:

This guide is correct at time of publishing but is subject to change November 2022

- This document is provided as a guide only. Students are responsible for ensuring that they have completed their study according to the official [Course Rule](#).
- Topic information for all topics, including pre-requisites can be found on the [Topic Page](#)
- General enrolment assistance is available via [Ask Flinders](#)
- For specific course advice e-mail: courseadvice.SE@flinders.edu.au