

Course Code	Course Name	Assumed Knowledge
ELEC1300	Electrical Engineering 1	NA
ELEC1700	Computer Engineering 1	NA
ELEC2132	Electric Energy Systems	ELEC1300
ELEC2320	Electrical Circuits	ELEC1300, MATH1120
ELEC2400	Signals and Systems	MATH1120
ELEC2700	Computer Engineering 2	ELEC1700, GENG1003
ELEC3130	Electric Machines and Power Systems	ELEC2130 or ELEC2131 or ELEC2132, ELEC2400, ELEC2320
ELEC3240	Electronics	ELEC2320, PHYS2170
ELEC3400	Signal Processing	ELEC2400, MATH2420
ELEC3540	Analog and Digital Communications	ELEC2400, MATH2420
ELEC3720	Programmable Logic Design	ELEC2700
ELEC3730	Embedded Systems	ELEC2700
ELEC3850	Introduction to Electrical Engineering Design	2nd year of either Electrical, Computer or Telecommunications Engineering. 3rd year, 1st Semester of either Electrical, Computer or Telecommunications Engineering.
ELEC4100	Electrical Systems	ELEC3130
ELEC4210	Electronics Design	ELEC3240
ELEC4400	Automatic Control	MATH2310 and ELEC2400/MECH2350, MCHA2000
ELEC4840A	Final Year Engineering Project – Part A	3rd year of Electrical, Computer, Telecomn or Software Engineering degree
ELEC4840B	Final Year Engineering Project – Part B	3rd year of Electrical, Computer, Telecomn or Software Engineering degree
GENG1000	Computer Aided Engineering	NA
GENG1001	Introduction to Engineering Mechanics	NA
GENG1003	Intro. to Procedural Programming	NA
GENG1803	Introduction to Engineering Practice	NA
GENG3830	Engineering Project Management	GENG1803
MATH1110	Mathematics 1	NA
MATH1120	Mathematics 2	MATH1110
MATH2310	Calculus of Science and Engineering	MATH1120/MATH1220
MATH2420	Engineering Mathematics	MATH1120/MATH1220, MATH2310
MCHA2000	Mechatronics Systems	ELEC1300, GENG1003, MATH1110, MATH1120, PHYS1205, MATH2310, MECH2420
MECH2110	Mechanical Engineering Design 1	GENG1000
MECH2250	Materials Science and Engineering 1	HSC level knowledge of Physics or Chemistry is assumed
MECH2350	Dynamics 2	Newton's Law of motion (GENG1001); Ordinary differential equations, Laplace Transform (MATH2310)
MECH2420	Engineering Mechanics	GENG1001
MECH2450	Engineering Computations 2	GENG1003, MATH2310
MECH2700	Thermofluids	Basic PHYS and MATH
MECH3110	Mechanical Engineering Design 2	MECH2110, MECH2420
MECH3400	Materials Science and Engineering 2	MECH2250
MECH3440	Mechanics of Solids	Engineering mechanics: MECH2420 stress, strain, axial loading, bending movement,torsion bending, deflection of beams
MECH3700	Transport Phenomena	Completed basic course in Thermofluids and Ordinary and Partial Differential Equations
MECH3750	Applied Engineering Thermodynamics	First year Mathematics, MECH2700
MECH4400	Computational Mechanics	MECH2110, MECH2420, MECH2350
MECH4580	Adv. Computer Aided Engineering and Manufacturing	MECH2110, MECH4400
MECH4830	Engineering Economic Analysis	NA
MECH4841A	Mechanical Engineering Project A	220 units completed
MECH4841B	Mechanical Engineering Project B	220 units completed
PHIL3910	Technology and Human Values	60 units of successfully completed courses
PHYS1205	Integrated Physics	2 unit MATH from the NSW HSC, or equivalent
PHYS1210	Advanced Physics I	2 unit MATH with a result in Bands 5/6 and PHYS
PHYS1220	Advanced Physics II	MATH Extension 1 with a result in Bands 3/4. It is also recommended that students have undertaken PHYS and achieved a result in Band 5/6.
PHYS2170	Quantum Mechanics and Semiconductor Physics	PHYS1210, PHYS1220, MATH1120/MATH1220
NOTE: All information provided is correct at the time of issue. The University and PSB Academy reserve the right to amend the timetable when it is deemed necessary.		