The College

TRANSITION FROM THE COLLEGE TO WESTERN SYDNEY UNIVERSITY AUTUMN 2027

Disclaimer: This suggested study pattern is based on the information currently available and is intended as a general guide only. Students are advised to refer to the official Academic Handbook and consult with the School to confirm their individual study plan.

Guide for students transitioning from 7193 Diploma in Engineering Studies to 3740 Bachelor of Engineering (Honours)

More information on your chosen Bachelor Degree, including the sequence of study, can be found on the University website or in the Student Handbook.

PATHWAY CREDITS

Your pathway credits are shown below and can be found online.

Upon successful completion of your Diploma, you will receive full credit for the following subjects:

- ENGR1024 - Introduction to Engineering Practice
- MATH1021 - Mathematics for Engineers Preliminary
- ENGR1011 - Engineering Physics
- ELEC1006 - Engineering Computing
- PROC1008 - Introduction to Engineering Materials
- Unspecified Electives - 30 credit points

For registration and academic advice please contact edbe@westernsydney.edu.au.

CONTENTS

Recommended Study Sequence Civil Engineering Major (T131) 2
Recommended Study Sequence Electrical Engineering Major (T102) 3
Recommended Study Sequence Mechanical Engineering Major (T103) 4
Recommended Study Sequence Robotics & Mechatronics Engineering Major (T04) 5

RECOMMENDED STUDY SEQUENCE CIVIL ENGINEERING MAJOR (T131)

The recommended study sequence for students commencing in Autumn semester is:

Year	Semester	Subject Code
2	Autumn	ENGR1018 - Fundamentals of Mechanics MATH1016 - Mathematics for Engineers 1# CIVL1001 - Surveying for Engineers# ELEC1003 - Electrical Fundamentals
2	Spring	MATH1019 - Mathematics for Engineers 2 CIVL2007 - Introduction to Structural Engineering^ MECH2003 - Mechanics of Materials^ ENGR2016 - Pavement Materials and Design
3	Autumn	CIVL3014 - Structural Analysis CIVL3002 - Concrete Structures CIVL2003 - Fluid Mechanics CIVL2012 - Soil Mechanics
3	Spring	CIVL2002 - Environmental Engineering ENGR3020 - Numerical Methods in Engineering CIVL3011 - Hydraulics CIVL3012 - Steel Structures ENGR3017 - Industrial Experience (Engineering)
4	Autumn	CIVL4017 - Surface Water Hydrology BLDG4008 - Digital Construction ENGR4041 - Final Year Project 1
4	Spring	CIVL3007 - Engineering Geomechanics ENGR4035 - Smart and Liveable Cities ENGR4042 - Final Year Project 2

RECOMMENDED STUDY SEQUENCE ELECTRICAL ENGINEERING MAJOR (T102)

The recommended study sequence for students commencing in Autumn semester is:

Year	Semester	Subject Code
2	Autumn	ENGR1018 - Fundamentals of Mechanics MATH1016 - Mathematics for Engineers 1 ELEC1001 - Digital Systems 1 ELEC1003 - Electrical Fundamentals
2	Spring	MATH1019 - Mathematics for Engineers 2 ELEC2009 - Microprocessor Systems ELEC2004 - Electronics ELEC3004 - Digital Systems 2
3	Autumn	ELEC2001 - Circuit Theory ELEC2011 - Signals and Systems ELEC2006 - Engineering Electromagnetics ELEC2007 - Engineering Visualization
3	Spring	ELEC3011 - Power and Machines ENGR3006 - Control Systems ELEC3003 - Digital Signal Processing ENGR3017 - Industrial Experience (Engineering)
4	Autumn	ELEC3006 - Electrical Machines 1 ELEC3001 - Communication Systems ELEC4002 - Power Electronics ENGR4041 - Final Year Project 1
4	Spring	ELEC4009 - Instrumentation and Measurement ELEC3002 - Data Communications ENGR4042 - Final Year Project 2

RECOMMENDED STUDY SEQUENCE MECHANICAL ENGINEERING MAJOR (T103)

The recommended study sequence for students commencing in Autumn semester is:

Year	Semester	Subject Code
2	Autumn	ENGR1018 - Fundamentals of Mechanics MATH1016 - Mathematics for Engineers 1[#] CIVL2003 - Fluid Mechanics[#] ELEC1003 - Electrical Fundamentals
2	Spring	MATH1019 - Mathematics for Engineers 2 ENGR2001 - Automated Manufacturing MECH2003 - Mechanics of Materials MECH3008 - Thermodynamics and Heat Transfer
3	Autumn	ENGR2035 - Modern Digital Design and Development MECH2001 - Kinematics and Kinetics of Machines[&] PROC2003 - Materials Selection and Design MECH3005 - Mechanical Design
3	Spring	MECH3007 - Thermal and Fluid Engineering MECH3002 - Advanced Mechanics of Materials MECH3004 - Dynamics of Mechanical Systems MECH3006 - Mechatronic Design ENGR3017 - Industrial Experience (Engineering)
4	Autumn	MECH3001 - Advanced Dynamics MECH4004 - Robotics ENGR4041 - Final Year Project 1
4	Spring	MECH4002 - Computer Aided Engineering MECH4001 - Computational Fluid Dynamics ENGR4042 - Final Year Project 2

RECOMMENDED STUDY SEQUENCE ROBOTICS & MECHATRONICS ENGINEERING MAJOR (T04)

The recommended study sequence for students commencing in Autumn semester is:

Year	Semester	Subject Code
2	Autumn	ENGR1018 - Fundamentals of Mechanics MATH1016 - Mathematics for Engineers 1 ELEC1001 - Digital Systems 1 ELEC1003 - Electrical Fundamentals
2	Spring	MATH1019 - Mathematics for Engineers 2 ENGR2001 - Automated Manufacturing ELEC2004 - Electronics COMP2023 - Mathematical Programming
3	Autumn	ELEC2001 - Circuit Theory MECH2001 - Kinematics and Kinetics of Machines MECH2003 - Mechanics of Materials MECH3005 - Mechanical Design
3	Spring	ELEC2008 - Microcontrollers and PLCs ELEC3001 - Power and Machines MECH3004 - Dynamics of Mechanical Systems MECH3006 - Mechatronic Design ENGR3017 - Industrial Experience (Engineering)
4	Autumn	MECH3001 - Advanced Dynamics MECH4004 - Robotics ENGR4041 - Final Year Project 1
4	Spring	ELEC4009 - Instrumentation and Measurement MECH4003 - Mobile Robotics ENGR4042 - Final Year Project 2

[#] MATH1016 is treated as a co-requisite for CIVL1001 and CIVL2003

[^] MECH2003 is treated as a co-requisite for CIVL2007

[%] ELEC2011 is treated as a co-requisite for ELEC3001

[&] MECH2001 is treated as a co-requisite for MECH3001