

TRANSITION FROM THE COLLEGE TO WESTERN SYDNEY UNIVERSITY SPRING 2026

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 Spring semester is:

Year	Semester	Subject Code
2	Spring	ENGR1018 - Fundamentals of Mechanics CIVL2002 - Environmental Engineering ENGR2016 - Pavement Materials and Design MATH1016 - Mathematics for Engineers 1
2	Autumn	MATH1019 - Mathematics for Engineers 2 MECH2003 - Mechanics of Materials CIVL2003 - Fluid Mechanics ELEC1003 - Electrical Fundamentals
3	Spring	CIVL2007 - Introduction to Structural Engineering CIVL3011 - Hydraulics ENGR3020 - Numerical Methods in Engineering ENGR4035 - Smart and Liveable Cities
3	Autumn	CIVL3014 - Structural Analysis CIVL3002 - Concrete Structures CIVL1001 - Surveying for Engineers CIVL2012 - Soil Mechanics ENGR3017 - Industrial Experience (Engineering) (0 credit points)
4	Spring	CIVL3012 - Steel Structures CIVL3007 - Engineering Geomechanics ENGR4041 - Final Year Project 1
4	Autumn	CIVL4017 - Surface Water Hydrology BLDG4008 - Digital Construction ENGR4042 - Final Year Project 2

RECOMMENDED STUDY SEQUENCE ELECTRICAL ENGINEERING MAJOR (T102)

Note: Please seek advice from the School if you choose this major as there is a requirement to take MATH1019 Maths for Engineering 2 in Year 2 Summer to complete the degree in minimum time.

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

Year	Semester	Subject Code
2	Spring	ENGR1018 - Fundamentals of Mechanics ELEC1003 - Electrical Fundamentals ELEC2006 - Engineering Electromagnets MATH1016 - Mathematics for Engineering 1
2	Summer	MATH1019 - Mathematics for Engineering 2
2	Autumn	ELEC2004 - Electronics ELEC1001 - Digital Systems 1 ELEC2011 - Signals and Systems ELEC2001 - Circuit Theory
3	Spring	ELEC2009 - Microprocessor Systems ELEC3011 - Power and Machines ELEC3004 - Digital Systems 2 ENGR3006 - Control Systems
3	Autumn	ELEC3001 - Communication Systems ELEC2007 - Engineering Visualization ELEC3006 - Electrical Machines 1 ELEC4002 - Power Electronics ENGR3017 - Industrial Experience (Engineering) (0 credit points)
4	Spring	ELEC4009 - Instrumentation and Measurement ELEC3003 - Digital Signal Processing ENGR4041 - Final Year Project 1 (UG Engineering) (20 credit points)
4	Autumn	ENGR4042 - Final Year Project 2 (UG Engineering) (20 credit points) Plus ELEC4007 - Wireless Communications Or ELEC4003 - Power Quality

RECOMMENDED STUDY SEQUENCE MECHANICAL ENGINEERING MAJOR (T103)

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

Year	Semester	Subject Code
2	Spring	MATH1016 - Mathematics for Engineering 1 ENGR1018 - Fundamentals of Mechanics ENGR2001 - Automated Manufacturing ELEC1003 - Electrical Fundamentals
2	Autumn	MECH2001 - Kinematics and Kinetics of Machines MECH2003 - Mechanics of Materials CIVL2003 - Fluid Mechanics MATH1019 - Mathematics for Engineering 2
3	Spring	MECH3004 - Dynamics of Mechanical Systems MECH3007 - Thermal and Fluid Engineering MECH3002 - Advanced Mechanics of Materials MECH3008 - Thermodynamics and Heat Transfer
3	Autumn	ENGR2035 - Modern Digital Design and Development MECH3001 - Advanced Dynamics MECH4001 - Computational Fluid Dynamics PROC2003 - Materials Selection and Design ENGR3017 - Industrial Experience (Engineering) (0 credit points)
4	Spring	ENGR4041 - Final Year Project 1 (UG Engineering) (20 credit points) MECH4002 - Computer Aided Engineering MECH3006 - Mechatronic Design
4	Autumn	ENGR4042 - Final Year Project 2 (UG Engineering) (20 credit points) MECH3005 - Mechanical Design MECH4004 - Robotics

RECOMMENDED STUDY SEQUENCE ROBOTICS & MECHATRONICS ENGINEERING MAJOR (T04)

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

Year	Semester	Subject Code
2	Spring	MATH1016 - Mathematics for Engineering 1 ENGR1018 - Fundamentals of Mechanics ENGR2001 - Automated Manufacturing ELEC1003 - Electrical Fundamentals
2	Autumn	MECH2001 - Kinematics and Kinetics of Machines MECH2003 - Mechanics of Materials ELEC2001 - Circuit Theory MATH1019 - Mathematics for Engineering 2
3	Spring	MECH4003 - Mobile Robotics ELEC2008 - Microcontrollers and PLCs MECH3004 - Dynamics of Mechanical Systems ELEC3011 - Power and Machines
3	Autumn	MECH3005 - Mechanical Design MECH3001 - Advanced Dynamics ELEC2004 - Electronics ELEC1001 - Digital Systems 1
4	Spring	ENGR4041 - Final Year Project 1 (UG Engineering) (20 credit points) MECH3006 - Mechatronic Design ELEC4009 - Instrumentation and Measurement
4	Autumn	ENGR4042 - Final Year Project 2 (UG Engineering) (20 credit points) COMP1005 Programming Fundamentals MECH4004 - Robotics