

DIPLOMA IN ENGINEERING STUDIES (7193)

Effective from: 2025

Approved Abbreviation: DipEngSt

Western Sydney University Program Code: 7193

AQF Level: 5

This program applies to students who commenced in Autumn Block 1, 2025 or later.

Replaced Programs

Students should follow the program structure for the session start date relevant to the year they commenced.

For Commencement Year 2014 to 2024 - 7034 Diploma in Engineering (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/diploma-engineering/>)

For Commencement Year 2017 to 2024 - 6033 Diploma in Engineering/ Bachelor of Engineering Studies (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/diploma-engineering-bachelor-engineering-studies/>)

For Commencement Year 2018 to 2024 - 7162 Diploma in Engineering Extended (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/diploma-engineering-extended/>)

For Commencement Year 2014 to 2024 - 7035 Diploma in Engineering Fast Track (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/diploma-engineering-fast-track/>)

For Commencement Year 2021 to 2023 - 6046 Diploma in Aerotropolis Industry 4.0 (Mechatronics Skills)/Bachelor of Engineering Science (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/diploma-aerotropolis-industry-40-mechatronics-skillsbachelor-engineering-science/>)

This diploma offers you an introduction to engineering exploring key aspects such as system design, mathematical modelling, and professional ethics. You will explore the interconnectedness of engineering components and gain a grounding in mathematical and scientific principles such as algebra and physics.

Emphasis is placed on adhering to ethical and professional standards to produce socially responsible solutions. The curriculum also hones communication skills, preparing you to articulate engineering concepts, problems, and solutions to varied audiences. With a focus on theoretical understanding and ethical responsibility, this diploma will equip you to excel in further academic studies and entry-level opportunities in engineering.

Study Mode

One year full-time or two years part-time

Program Advice

College Program Enquiries (<https://directory.westernsydney.edu.au/search/email/AdminApp@westernsydney.edu.au>)

Location

Campus	Attendance	Mode	Advice
Penrith Campus*	Full Time	Internal	See above
Penrith Campus*	Part Time	Internal	See above

* Programs delivered through an agreement with another party

Admission

This program is open to Australian Citizens and Permanent Residents who are aged 17 years or over and **not** currently enrolled in or completing Year 12 in the same year of intended admission.

If you would like more information on The College's pathway diplomas, please visit: Pathway Programs | The College (westernsydney.edu.au/) (<https://www.westernsydney.edu.au/future/study/application-pathways/the-college/courses/>)

For direct applications to Western Sydney University please visit: Western Sydney University (uac.edu.au/) (<https://westernsydney.uac.edu.au/ws/>)

For UAC applications please visit: Universities Admissions Centre - UAC (<https://www.uac.edu.au/>)

Program Structure

Students will need to enrol in **one subject that will run online for 17 weeks** (in either Autumn or Spring sessions) and will **simultaneously study another four subjects on campus in block mode (1 subject studied every 4 weeks)** during this period. Please note that subjects in blocks are studied over 4 weeks.

Qualification for this award requires the successful completion of 110 credit points including the subjects listed below.

Start-year Intake

Subject	Title	Credit Points
Autumn Semester		
GEDU 0016	Employability and Graduate Success (WSTC Prep)	15
Autumn Block 1		
GEDU 1001	Introduction to University Life (WSTC)	10
Autumn Block 2		
ENVL 1008	Sustainable and Ethical Industry Practices (WSTC)	10
Autumn Block 3		
MATH 1039	Engineering Mathematics and Statistics (WSTC)	10
Autumn Block 4		
ENGR 1053	Applied Physics for Engineers (WSTC)	10
Spring Semester		
GEDU 0017	Transition Success (WSTC Prep)	15
Spring Block 1		
MATH 1040	Engineering Mathematics and Computing (WSTC)	10
Spring Block 2		
PROC 1009	Materials Science in Engineering (WSTC)	10
Spring Block 3		
Choose one elective subject ¹		10
Spring Block 4		
Choose one elective subject ¹		10
Total Credit Points		110

¹ Students may choose electives from any subject offered under a Destination College Diploma. These subjects cannot be University subjects or other College subjects.

Mid-year Intake

Subject	Title	Credit Points			
GEDU 0016	Employability and Graduate Success (WSTC Prep)	15	EDUC 1010	Educational Psychology (WSTC)	10
			EDUC 1012	Literacy and Numeracy for Educators (WSTC)	10
			EDUC 1013	Sociology for Educators (WSTC)	10
			EDUC 2015	Education for Sustainability (WSTC)	10
Spring Semester					
GEDU 1001	Introduction to University Life (WSTC)	10	ENGR 1053	Applied Physics for Engineers (WSTC)	10
			ENVL 1008	Sustainable and Ethical Industry Practices (WSTC)	10
Spring Block 1					
ENVL 1008	Sustainable and Ethical Industry Practices (WSTC)	10	FINC 1004	Financial Concepts and the Language of Business (WSTC)	10
Spring Block 2					
MATH 1039	Engineering Mathematics and Statistics (WSTC)	10	GEDU 1002	Core Foundations and Key Ideas (WSTC)	10
			HLTH 1021	Effective Communication in Health (WSTC)	10
Spring Block 3					
ENGR 1053	Applied Physics for Engineers (WSTC)	10	HLTH 1022	Evidence in Health Practice (WSTC)	10
Spring Block 4					
ENGR 1053	Applied Physics for Engineers (WSTC)	10	HLTH 1023	Diversity in Health (WSTC)	10
Autumn Semester					
GEDU 0017	Transition Success (WSTC Prep)	15	HUMN 1068	Intersectionality: Identity, Diversity and Difference (WSTC)	10
Autumn Block 1					
MATH 1040	Engineering Mathematics and Computing (WSTC)	10	HUMN 1069	Human Rights and Community Action (WSTC)	10
Autumn Block 2					
PROC 1009	Materials Science in Engineering (WSTC)	10	HUMN 1070	Indigenous Australia: People, Places and Philosophies (WSTC)	10
Autumn Block 3					
Choose one elective subject ¹		10	HUMN 1072	The Human Experience: Fundamentals of Arts and Humanities (WSTC)	10
Autumn Block 4					
Choose one elective subject ¹		10	HUMN 1073	Understanding Contemporary Australia (WSTC)	10
Total Credit Points					
		110	INFO 1005	Website Design (WSTC)	10
			INFS 1017	Database Design and Management (WSTC)	10
			LANG 1033	Cultural Crossroads: Understanding the World Through Texts (WSTC)	10
			MATH 1039	Engineering Mathematics and Statistics (WSTC)	10
			MATH 1040	Engineering Mathematics and Computing (WSTC)	10
			MATH 1042	Mathematics for the Digital World (WSTC)	10
			MKTG 1013	Marketing Enterprises (WSTC)	10
			NATS 1029	Human Anatomy and Physiology 1 (WSTC)	10
			NATS 1030	Human Anatomy and Physiology 2 (WSTC)	10
			NATS 1032	Introduction to Applied Science and Technology (WSTC)	10

Available Electives

Students may choose any subject from the below Destination College Diplomas as their electives. Please note, not all elective options may be available on all campuses or in all teaching sessions. Elective subjects cannot be the same as compulsory program-specific subjects.

Subject	Title	Credit Points			
BIOS 1040	Natural Science (WSTC)	10	PROC 1009	Materials Science in Engineering (WSTC)	10
BIOS 1041	Fundamentals of Biotechnology (WSTC)	10	PUBH 1015	People, Health and Society (WSTC)	10
BLDG 1019	Construction Site Administration (WSTC)	10	TEAC 2067	Being a Teacher (WSTC)	10
BLDG 1020	Domestic Construction (WSTC)	10			
BLDG 1021	Commercial Construction (WSTC)	10			
BLDG 1022	Construction Site Safety (WSTC)	10			
BUSM 1045	Creative Enterprises and Information Technologies (WSTC)	10			
BUSM 1046	Managing and Leading Enterprises (WSTC)	10			
CART 1009	Exploring the Creative Industries (WSTC)	10			
CHEM 1013	Essential Chemistry (WSTC)	10			
COMM 1046	Data Dynamics: Influence, Ethics, and Power (WSTC)	10			
COMP 1015	Programming Fundamentals and Algorithmic Design (WSTC)	10			
COMP 1016	Foundations of Networking and Cyber Security (WSTC)	10			
CULT 1028	Introduction to Criminology and Justice (WSTC)	10			
CULT 1029	The Individual in a Global Context: The Concepts and Ideas that Shape Us (WSTC)	10			
DESN 1023	Visual Media Design (WSTC)	10			
ECON 1015	Understanding the Economic Context of Enterprises (WSTC)	10			