

BEng Materials Science and Engineering

Year 1	Modules						Chinese Studies
Semester 1	Personal Development Planning 1 QXU3111	English Language 1 QXU3101	Advanced Maths 1 NXC3000	General Physics NXC3001	Linear Algebra NXC3002	Introduction to Engineering Materials QXU4011	Military Training
		English Language 2 QXU3102	Advanced Maths 2 NXC3004	Mathematical Modelling and Computing NXC3005			Military Theory
Semester 2							Physical Education (1)
							Essentials of Chinese Modern History
							Ethics and Fundamentals of Law
							Physical Education (2)
Year 2	Modules						Chinese Studies
Semester 1	Personal Development Planning 2 QXU4111	MS 1: Structure and Properties QXU4000	Engineering Design Methods NXC4008	Experiments in Materials 1 QXU4007	Mechanical Modelling NXC4012		Situation and Policy
		MS 2: Processing and Applications QXU4006	Molecules to Materials QXU4001	Chemistry for Materials QXU4002	Thermodynamics and Phase Transformations NXC4022		Maxism General Principle
Semester 2							Physical Education (3)
							The Fundamentals of Mao Zedong Thought
							Physical Education (4)
Year 3	Modules						
Semester 1	Personal Development Planning 3 QXU5111	Physical Properties of Polymers QXU5032	Surfaces and Interfaces QXU5010	Functional Materials NXC5010	Metals 1 Deformation and Strengthening NXC5026		Elective subjects
Semester 2		Composite Materials QXU5030	Experiments in Materials 2 QXU5017	Structural Characterisation NXC5015	Metals 2 Alloy Systems and Heat Treatment NXC5036		Elective subjects
Year 4	Modules						
Semester 1		Materials Selection in Design QXU6002	Fracture Mechanics NXC6024	Ceramics QXU6022	Manufacturing Processes NXC6025		Elective subjects
Semester 2		Environmental Properties of Materials QXU6007	Fatigue and Creep Failure NXC6023	Renewable Energy Materials QXU7027	Materials Project QXU6021		Elective subjects