Degree planner — BE(Hons) in Chemical and Biological Engineering

If no point value is listed, papers are worth 15 points.

Year 1	ENGEN170 Engineering and Society	ENGEN180 Foundation of Engineering	ENGEN183 Linear Algebra and Stats	ENGEN184 Calculus for Engineers	ENGEN103 Engineering Computing	ENGEN112 Materials Science and Engineerings	CHEMY102B Chemical Reactivity	Programme Elective
Year 2	ENGEN270 Engineering Professional Practice 1	ENGCB280 Process Engineering Design 1	ENGEN201 Engineering Maths 2	ENGME221 Engineering Thermodynamics	ENGCB224 Heat and Mass Transfer	ENGCB223 Fluid Mechanics	ENGMP211 Materials 1	Programme Elective
Year 3	ENGEV342 Sustainable Engineering	ENGCB380 Process Engineering Design 2	ENGEN301 Engineering Maths 3	ENGCB321 Thermal Engineering	ENGCB324 Mass Transfer Operations	ENGCB323 Reaction Engineering	ENGCB322 Chemical and Biological Operations	Programme Elective
Year 4	ENGEN570 Engineering Professional Practice 2	ENGEN591 Research Project*	ENGEN591 Research Project*	ENGCB580 Process Engineering Design Project**	ENGCB580 Process Engineering Design Project**	ENGCB521 Advanced Process Control	Programme Elective	Programme Elective
Compulsory Stream Elective Placement								

Note: Second Year includes ENGEN271: Work Placement 1, and Third Year includes ENGEN371: Work Placement 2, which are compulsory but are 0-point papers. Placements are usually taken over the Summer period from November to February.

Year 1 Electives

Choose 15 points from the following:

BIOMO101 Introduction to Molecular and Cellular Biology

CHEMY101 Structure and Spectroscopy

EARTH101 Introduction to Earth System Sciences

EARTH102 Discovering Planet Earth

ENGEN110 Engineering Mechanics

ENGEN111 Electricity and Electronics

PHYSC101 Physics for Engineers and Scientists

Year 3 Electives

 ${\it Choose 15 points from the following:}$

ENGMP311 Materials 2

ENGEV341 Environmental Engineering 2

ENGEN380 Special Topics in Engineering

BIOMO2XX 200 Level Molecular and Cellular Biology Or BIOMO3XX 300

Level Molecular and Cellular Biology

CHEMY2XX 200 Level Chemistry Or CHEMY3XX 300 Level Chemistry

EARTH2XX 200 Level Earth Sciences Or EARTH3XX 300 Level Earth Sciences

Year 2 Electives

Choose 15 points from the following: BIOMO201 Biochemistry

BIOMOZOI BIOCHERIISTY

CHEMY2XX 200 Level Chemistry
EARTH2XX 200 Level Earth Sciences

ENGMP213 Mechanics of Materials 1

Year 4 Electives

Choose 30 points with at least 15 points at 500 Level from the following:

ENGCB523 Advanced Energy Engineering

ENGCB527 Advanced Biological Engineering

ENGMP511 Advanced Materials Engineering

ENGEV541 Advanced Water and Waste Water Engineering

ENGEV542 Waste Minimisation Engineering

ENGME580 Product Innovation and Development

ENGEN590 Special Topics in Engineering

ENGXX3XX 300 Level Engineering

^{*}ENGEN591 Research Project is worth 30 points.

^{**}ENGCB580 Process Engineering Design Project is worth 30 points.