

Proposed BE(Hons) Mechanical Engineering Degree Structure

Intermediate Year	
S1	S2
EMTH 118 Eng Math 1A	EMTH 119 Eng Math 1B
ENGR 101 Foundations of Eng	ENGR 102 Eng Mechanics
PHYS 101 Eng Physics A	EMTH171 Math Model. and Comp.
CHEM 111 * General Chem. A	Phys 102* Eng Physics B
COSC 121 * Intro to Comp. Prog.	

1 st Pro Year	
S1	S2
EMTH 210 Eng Math 2	EMTH 271 Math. Model. and Comp. 2
ENME 201 Design Communication	ENME 221 Eng Design and Manufact.
ENME 202 Stress, Strain and Def. in Machine Elements	ENME 207 Materials Science and Eng
ENME 204 Intro to Thermo-Fluids	ENME 203 Dynamics and Vibrations

2 nd Pro Year #	
S1	S2
ENME 303 Controls and Vibrations	ENME 302 Comp. and Applied Mech Analysis
ENME 301 Eng Design and Production Quality	ENME 311 Eng Design and Product Management
ENME 304 Eng. Fluid Mechanics	ENME 305 Thermo and Heat Transfer
ENME 313 Electro Tech for Mech Eng	ENME 307 Performance of Eng Materials

3 rd Pro Year %	
S1	S2
ENME 408 Final Year Project	
ENME 401 Design	ENME 418 Eng Management
ELECTIVE 1	ELECTIVE 3
ELECTIVE 2	ELECTIVE 4

ELECTIVES FROM THESE STREAMS:	MATERIALS •Polymers/Composites •Phase Transformations •Characterisation	CONTROLS •Modern Control Theory •Adv. Vibrations	ENERGY •Conversion •Management	COMPUTATION •Comp. Solid Mechanics •Comp. Heat Transfer
BIOENGINEERING •Materials / Fluids	DESIGN •Production Management • Comp. Product Develop.	AERODYNAMICS • Industrial/Vehicles •Advanced CFD	ROBOTICS •Robotics •Instrumentation	ACCOUSTICS •Acoustics

* See <http://www.engf.canterbury.ac.nz/behons/intermediateyear.shtml> for ENME intermediate year requirements.

Subject to Faculty approval in 2011.

% Subject to Faculty approval in 2012.