

Bachelor of Mechatronics Engineering

Student ID		Student name	
Course code	3280	Year commenced course	
Course version	1 (for students who commenced from 2006 onwards)		
Credit points	192 points (32 x 6 point units)		
Duration of degree	4 years full time, 8 years part time		
Time limit	8 years. Students have eight years in which to complete this award from the time they commence first year. Periods of intermission are counted as part of the eight years.		
Honours	Students are awarded a degree with honours for meritorious performance throughout the course. No additional time is required.		
Course adviser	http://www.eng.monash.edu.au/current-students/course-information.html#1		
Monash University Handbook	http://www.monash.edu.au/pubs/handbooks/		

Students should bring this course map with them when they seek course advice.

First year (select eight units from):	Mark	Grade
Core units		
<input type="checkbox"/> ENG1020 Engineering structures		
<input type="checkbox"/> ENG1030 Electrical systems		
<input type="checkbox"/> ENG1040 Engineering dynamics		
<input type="checkbox"/> ENG1050 Engineering materials		
<input type="checkbox"/> ENG1060 Computing for engineers		
<input type="checkbox"/> ENG1091 Mathematics for engineering		
Foundation units		
Students who have not completed VCE units 3/4 of Chemistry or Physics and/or Specialist Mathematics are required to select one or two appropriate foundation units(s) from:		
<input type="checkbox"/> ENG1070 Foundation chemistry (if you have not completed VCE Chemistry)		
<input type="checkbox"/> ENG1080 Foundation physics (if you have not completed VCE Physics)		
<input type="checkbox"/> ENG1090 Foundation mathematics (if you have not completed VCE Spec Maths)		
Electives		
Select none, one or two units from:		
<input type="checkbox"/> ENG1010 Process systems analysis		
<input type="checkbox"/> ENG1061 Engineering profession		
<input type="checkbox"/> ENG1071 Chemistry for engineering		
<input type="checkbox"/> ENG1081 Physics for engineering		

Second year	Mark	Grade
<input type="checkbox"/> ENG2092 Advanced engineering mathematics B		
<input type="checkbox"/> TRC2000 Mechatronics project I		
<input type="checkbox"/> TRC2100 Mechatronic design		
<input type="checkbox"/> TRC2200 Thermo-fluids and power systems		
<input type="checkbox"/> TRC2201 Mechanics		
<input type="checkbox"/> TRC2300 Digital electronics		
<input type="checkbox"/> TRC2400 Computer programming		
<input type="checkbox"/> TRC2500 Electronics		
Third year	Mark	Grade
<input type="checkbox"/> MTE2544 Functional materials		
<input type="checkbox"/> TRC3000 Mechatronics project II		
<input type="checkbox"/> TRC3200 Dynamical systems		
<input type="checkbox"/> TRC3300 Microprocessor systems		
<input type="checkbox"/> TRC3500 Sensors and artificial perception		
<input type="checkbox"/> TRC3501 Power electronics and drives		
<input type="checkbox"/> TRC3600 Modelling and control		
<input type="checkbox"/> TRC3801 Mechatronics and manufacturing		
Fourth year	Mark	Grade
Core units		
<input type="checkbox"/> TRC4000 Mechatronics final year project I		
<input type="checkbox"/> TRC4001 Mechatronics final year project II		
<input type="checkbox"/> TRC4002 Professional practice		
<input type="checkbox"/> TRC4800 Robotics		
<input type="checkbox"/> TRC4801 Digital communications		
Electives		
18 points of approved elective units from the list below (6 of the 18 points may be taken as an interfaculty elective)		
<input type="checkbox"/> ECE4074 Advanced computer architecture		
<input type="checkbox"/> ECE4078 Intelligent robotics		
<input type="checkbox"/> MEC4418 Control systems		
<input type="checkbox"/> MEC4425 Micro-nano solid and fluid mechanics		
<input type="checkbox"/> MEC4426 Computer-aided design		
<input type="checkbox"/> MEC4428 Advanced dynamics		
<input type="checkbox"/> MEC4444 Industrial noise control		
<input type="checkbox"/> MEC4446 Composite and structures		
<input type="checkbox"/> MTE3545 Functional materials and devices		

Professional requirements		
Students may not graduate until they have completed their work experience and submitted a satisfactory report on the experience		
<input type="checkbox"/> 12 weeks approved engineering work experience		
<input type="checkbox"/> Report submitted to faculty and approved		

Every effort has been made to ensure that the information provided is correct at the time of publication.
 Monash University reserves the right to alter this information should the need arise. October 2009