

679-BM Bachelor of Engineering (Biomedical) Biomechanics

Year and Campus:	2008																																								
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees																																								
Level:	Undergraduate																																								
Duration & Credit Points:																																									
Contact:	-																																								
Course Overview:	<p>The course structure below represents the core content for the last three years of the BE (Biomedical Engineering) degree. All students should check that they are enrolled in the subjects listed, as appropriate to the stream of Biomedical Engineering that they have selected. For further information and up-to-date course advice, students should regularly check the Faculty of Engineering web page at http://www.bme.unimelb.edu.au.</p> <p>When setting the timetable every effort will be made to avoid clashes between the times of classes associated with these sets of subjects. Students should be aware however, that if it proves to be impossible to achieve a timetable without clashes in these sets of subjects, the Faculty reserves the right to modify these course structures in order to eliminate the conflicts. Students will be advised during the enrolment period of the semester if the recommended courses need to be varied.</p>																																								
Objectives:	-																																								
Subject Options:	<p>THERE WILL BE NO FIRST YEAR ENTRY INTO THIS COURSE FROM 2008.</p> <p>Second Year</p> <p>Subjects listed below MUST be taken in this approved order, regardless of semester availability.</p> <p>Semester 1</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>521-225 Integrated Biomedical Science</td> <td>Not offered 2008</td> <td>25</td> </tr> <tr> <td>431-201 Engineering Analysis A</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>421-285 Bioengineering Systems Modelling 1</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table> <p>Semester 2</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>536-225 Integrated Biomedical Science II</td> <td>Not offered 2008</td> <td>25</td> </tr> <tr> <td>431-202 Engineering Analysis B</td> <td>Summer, 1, 2</td> <td>12.500</td> </tr> <tr> <td>421-286 Bioengineering Systems Modelling 2</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>Third Year</p> <p>Subjects listed below MUST be taken in this approved order, regardless of semester availability.</p> <p>Semester 1</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>436-386 Biomaterials</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>436-285 Engineering Design and Materials 1</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>436-388 Introduction to Biomechanics</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>436-202 Mechanics 1</td> <td>1</td> <td>12.500</td> </tr> </tbody> </table> <p>Semester 2</p>		Subject	Study Period Commencement:	Credit Points:	521-225 Integrated Biomedical Science	Not offered 2008	25	431-201 Engineering Analysis A	Semester 1	12.50	421-285 Bioengineering Systems Modelling 1	Semester 1	12.50	Subject	Study Period Commencement:	Credit Points:	536-225 Integrated Biomedical Science II	Not offered 2008	25	431-202 Engineering Analysis B	Summer, 1, 2	12.500	421-286 Bioengineering Systems Modelling 2	Semester 2	12.50	Subject	Study Period Commencement:	Credit Points:	436-386 Biomaterials	Semester 1	12.50	436-285 Engineering Design and Materials 1	Semester 1	12.50	436-388 Introduction to Biomechanics	Semester 1	12.50	436-202 Mechanics 1	1	12.500
Subject	Study Period Commencement:	Credit Points:																																							
521-225 Integrated Biomedical Science	Not offered 2008	25																																							
431-201 Engineering Analysis A	Semester 1	12.50																																							
421-285 Bioengineering Systems Modelling 1	Semester 1	12.50																																							
Subject	Study Period Commencement:	Credit Points:																																							
536-225 Integrated Biomedical Science II	Not offered 2008	25																																							
431-202 Engineering Analysis B	Summer, 1, 2	12.500																																							
421-286 Bioengineering Systems Modelling 2	Semester 2	12.50																																							
Subject	Study Period Commencement:	Credit Points:																																							
436-386 Biomaterials	Semester 1	12.50																																							
436-285 Engineering Design and Materials 1	Semester 1	12.50																																							
436-388 Introduction to Biomechanics	Semester 1	12.50																																							
436-202 Mechanics 1	1	12.500																																							

Subject	Study Period Commencement:	Credit Points:
436-201 Thermofluids 1	Semester 2	12.50
436-286 Engineering Design & Materials 2	Semester 2	12.50
620-370 Statistics for Mechanical Engineers	Semester 2	12.50
436-387 Cellular & Tissue Biomechanics	Semester 2	12.50

Fourth Year

Subjects listed below **MUST** be taken in this approved order, regardless of semester availability.

Semester 1

Subject	Study Period Commencement:	Credit Points:
436-492 Major Project and Professional Practice	Year Long	25
436-202 Mechanics 1	1	12.500

AND **one** of the following two subjects

Subject	Study Period Commencement:	Credit Points:
436-470 Control Systems 2	Semester 1	12.50
436-351 Thermofluids 2	Semester 1	12.50

AND **one** of the following Electives (12.5 points) - *Non-technical* OR any level 200, 300 or 400 subjects with approval from the Department of Mechanical Engineering

Subject	Study Period Commencement:	Credit Points:
431-451 Project Mgt & Product Commercialisation	1	12.500
436-284 Organisational Engineering	Semester 1	12.50

Semester 2

Subject	Study Period Commencement:	Credit Points:
436-492 Major Project and Professional Practice	Year Long	25
640-381 Principles and Applications of Sensors	Semester 2	12.50
421-449 Biomedical Design & Regulation	Semester 2	12.50
436-419 Computational Biomechanics	Semester 2	12.50

Core Participation Requirements:

<p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.</p> <p>It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability</p>