

## 857-SE Bachelor of Engineering (Software) and Bachelor of Science

<b>Year and Campus:</b>	2009
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Level:</b>	Undergraduate
<b>Duration &amp; Credit Points:</b>	
<b>Contact:</b>	<p>Engineering Student Centre Ground Floor, Old Engineering Building The University of Melbourne Victoria 3010 AUSTRALIA</p> <p>Tel: +61 3 8344 6703 Fax: +61 3 9349 2182 Email <a href="http://eng-unimelb.custhelp.com">http://eng-unimelb.custhelp.com</a> (<a href="http://eng-unimelb.custhelp.com/">http://eng-unimelb.custhelp.com/</a>)</p>
<b>Course Overview:</b>	Students enrolled in the BE/BSc and the BE(IT)/BSc, planning to undertake a science major in computer science, may take this accelerated sequence of subjects in order to maximise their choice of computer or electrical engineering electives in their final two years of study.
<b>Objectives:</b>	-
<b>Subject Options:</b>	<p>Note: The course structures outlined below are provided for students who commenced the Bachelor of Engineering prior to 2008. Students who commenced the program in 2008 or 2009 should refer to the revised Bachelor of Engineering (355-AA) course description available <a href="#">here (/view/2009/355)</a> .</p> <p>-----</p> <p><b>Accelerated program for a major in mathematics in the BSc component of the Bachelor of Engineering</b></p> <p><b>Third year</b> <b>Year-long</b> 433-340 Software Engineering Project 25</p> <p><b>Semester 1</b> 433-341 Software Engineering Process &amp; Practice 12.5 CSSE 300-level elective 12.5 620-2xx Mathematics subject 12.5</p> <p><b>Semester 2</b> 433-342 Software Engineering Methods 12.5 433-343 Professional Issues in Computing 12.5 620-2xx Mathematics subject 12.5</p> <p><b>Fourth year</b> Science subjects 100</p> <p><b>Fifth year</b> <b>Year-long</b> 433-440 Advanced Software Engineering Project 25</p> <p><b>Semester 1</b> CSSE 300-level or 400-level elective 25 Elective 12.5</p> <p><b>Semester 2</b> CSSE 300-level and 400-level electives 25 Elective 12.5</p> <p>The 62.5 points labelled CSSE electives must be selected, subject to prerequisites being satisfied, from the 300-level, 400-level and (with the approval of the Department) masters-level subjects offered by the Department and must include at least 37.5 points selected from: 433-332 Operating Systems, 433-351 Database Systems, 433-353 Networks and Communications, 433-371 Interactive System Design and 433-441 System Modelling and Analysis. 433-643 IT Project Management is strongly recommended. 12.5 points of other elective subjects may be used for additional computer science or electrical engineering subjects. The selection of elective subjects may be restricted by timetable and prerequisite requirements.</p>

In 2005 the Department introduced restrictions to the computing subjects offered by other departments which can be taken as electives in the BCS, BE(Software), BE(Eng MGT) and BE(Biomedical) Bioinformatics programs. Students are advised to visit the School of Engineering Community in LMS for more details.

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### **Accelerated program for a major in physics in the BSc component of the Bachelor of Engineering**

#### **Third year**

##### **Year-long**

433-340 Software Engineering Project 25

##### **Semester 1**

433-341 Software Engineering Process & Practice 12.5

CSSE 300-level elective 12.5

640-223 Quantum Mechanics & Thermal Physics(Adv) 12.5

or

640-243 Quantum Mechanics & Thermal Physics 12.5

##### **Semester 2**

433-342 Software Engineering Methods 12.5

640-225 Electromagnetism & Relativity (Adv) 12.5

or

640-245 Electromagnetism & Relativity 12.5

640-299 Laboratory Work 12.5

#### **Fourth year**

##### **Semester 1**

640-321 Quantum Mechanics (Adv) 12.5

or

640-341 Quantum Mechanics 12.5

640-322 Statistical Physics (Advanced) 12.5

or

640-342 Statistical Physics 12.5

640-393 Laboratory Work A 12.5

Science elective 12.5

##### **Semester 2**

433-343 Professional Issues in Computing 12.5

640-323 Electrodynamics (Adv) 12.5

or

640-343 Electrodynamics 12.5

640-353 Atomic, Molecular & Solid State Physics 12.5

640-394 Laboratory Work B 12.5

#### **Fifth year**

##### **Year-long**

433-440 Advanced Software Engineering Project 25

##### **Semester 1**

CSSE 300-level or 400-level elective 25

Elective 12.5

##### **Semester 2**

CSSE 300-level and 400-level electives 25

Elective 12.5

Students wishing to take science majors other than the ones listed above should contact the Faculty of Science, Department of Computer Science and Software Engineering and the Department of Electrical and Electronic Engineering for course planning advice.

Students must plan their course so that the subjects chosen in the other faculty do not clash with those recommended for the engineering component.

Students may choose to take the final year of Computer Engineering or Electrical Engineering before the Science year.

The 62.5 points labelled CSSE electives must be selected, subject to prerequisites being satisfied, from the 300-level, 400-level and (with the approval of the Department) masters-level subjects offered by the Department and must include at least 37.5 points selected from: 433-332 Operating Systems, 433-351 Database Systems, 433-353 Networks and Communications, 433-371 Interactive System Design and 433-441 System Modelling and Analysis. 433-643 IT Project Management is strongly recommended. 12.5 points of other elective subjects may be used for additional computer science or electrical engineering

	<p>subjects. The selection of elective subjects may be restricted by timetable and prerequisite requirements.</p> <p>In 2005 the Department introduced restrictions to the computing subjects offered by other departments which can be taken as electives in the BCS, BE(Software), BE(Eng MGt) and BE(Biomedical) Bioinformatics programs. Students are advised to visit the School of Engineering Community in LMS for more details.</p> <p>Students who commenced before 2004 may replace 433-342 with one of 433-332, 433-351, 433-353, 433-371, 433-441.</p>
<b>Entry Requirements:</b>	-
<b>Core Participation Requirements:</b>	-
<b>Further Study:</b>	-