

985-AR Bachelor of Engineering (Environmental) and Bachelor of Science

Year and Campus:	2008
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Undergraduate
Duration & Credit Points:	
Contact:	Nghiem Tran Course Advisor Melbourne School of Engineering T: + 61 3 8344 4628 F: + 61 3 9349 2182 E n.tran@unimelb.edu.au
Course Overview:	<p>Students studying the BE/BSc degree should consult the BE single degree course structure for a current list of the core engineering subjects.</p> <p>Students should regularly check the Department of Civil and Environmental Engineering's course advice page for additional information and up-to-date course advice on the web.</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 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. Where the courses include elective subjects these should be chosen so that timetable clashes are avoided. In particular, students in combined degrees should plan their courses so that the subjects chosen in the other faculty do not clash with those recommended for the engineering component.</p>
Objectives:	-
Course Structure & Available Subjects:	<p>The standard BE/BSc combined degrees require a total of 500 points, within which students must take a minimum of 300 engineering points and 237.5 science points. The total points of a standard course can be kept to 500 as at least 50 points of core material within the various streams of engineering also earn science points.</p> <p>BE/BSc course structure</p> <p>To satisfy course requirements students must:</p> <p>take the set of core engineering subjects prescribed for the branch of engineering being studied. This will include the professional study requirements in one of chemical engineering, civil engineering, environmental engineering, mechanical engineering; and either electrical, computer or software engineering;</p> <p>accumulate a minimum of 237.5 science points, which must include:</p> <p>between 75 and 125 points at 100-level;</p> <p>completion of 50 points of a prescribed science major at the 300-level. Detailed information on the science majors available is contained within the course entry for the Bachelor of Science (course code 755-BB (/view/2008/755-BB))</p> <p>With regard to the science component note that:</p> <p>There are no specific requirements at the 200-level.</p> <p>Science points are awarded for the completion of science subjects listed in the Faculty of Science section of this Handbook. The majority of subjects listed in this section earn science credit, although there are exceptions. Some subjects offered by the Department of Information Systems, Department of Mathematics and Statistics, and School of Earth Sciences do not earn science credit. If a subject does not earn science credit it is labelled as non-science in the subject description. Any subject that does not appear in the science section of this Handbook is a non-science subject.</p> <p>The engineering component may require the completion of specific (generally 100-level) science subjects. These subjects are detailed in the requirements of the various engineering courses that follow in the departmental entries.</p>

A science major in computer science is not available to students undertaking the Software Engineering stream in the BE. These students will be required to undertake a major in an alternative science discipline (e.g. mathematics and statistics).

Students will not normally be permitted to complete more than 237.5 science points.

Selection of science subjects

Students are normally able to enrol in any subjects earning science credit where they have satisfied the prerequisite and corequisite requirements. These requirements are included in individual subject descriptions. Note that some science subjects are quota-restricted as the demand for the subject exceeds the number of places available. Selection into quota subjects is based on academic merit. Refer to the Faculty of Science section Quota subjects

Students who commenced prior to 1999

Students who first enrolled in the combined engineering/science course before 1999 must complete the requirements set out above with the exception that they do not need to complete a prescribed science major, but rather 50 points at 300-level made up of science subjects of their choice.

Subject Options:

THERE WILL BE NO FIRST YEAR ENTRY INTO THIS COURSE FROM 2008

Second Year

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

2nd Year - Semester 1

Subject	Study Period Commencement:	Credit Points:
421-255 Management for Engineers 1	Semester 1	12.50
421-210 Environmental Engineering - Basics	Semester 1	12.50
121-018 Geomorphology	Semester 1	12.50

and one of:

Subject	Study Period Commencement:	Credit Points:
431-201 Engineering Analysis A	Semester 1	12.50
620-231 Vector Calculus	Semester 1, Semester 2	12.50

2nd Year - Semester 2

Subject	Study Period Commencement:	Credit Points:
421-209 Geomechanics 1	Semester 2	12.50
610-280 Environmental Chemistry	Semester 2	12.50

and one of:

Subject	Study Period Commencement:	Credit Points:
431-202 Engineering Analysis B	Summer, 1, 2	12.500
620-232 Mathematical Methods	Semester 2	12.50

plus Science subject as required (12.5 points)

Third Year

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

3rd Year - Semester 1

Subject	Study Period Commencement:	Credit Points:
---------	----------------------------	----------------

421-305 Engineering Hydraulics 1	1	12.500
421-325 Field Data Acquisition and Analysis	Semester 1	12.50
421-355 Management for Engineers 2	Semester 1	12.50

plus Science subject as required (12.5 points)

3rd Year - Semester 2

Subject	Study Period Commencement:	Credit Points:
421-316 Engineering Hydraulics & Hydrology	Semester 2	12.50
421-322 Environmental Engineering Design 1	2	12.500
421-327 Computing for Land and Spatial Systems	Semester 2	12.50

plus Science subject as required (12.5 points)

Fourth Year

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

4th Year - Semester 1

Subject	Study Period Commencement:	Credit Points:
421-405 Management for Engineers 3	Semester 1	12.50
421-490 Quantification of Physical Processes A	Semester 1	12.50
421-491 Quantification of Physical Processes B	Semester 1	12.50

plus Science subject as required (12.5 points)

4th Year - Semester 2

Subject	Study Period Commencement:	Credit Points:
421-442 Integrated Design	Semester 2	12.50
421-477 Research Project	Semester 2	12.50
421-482 Analysis & Design-Environmental Systems	Semester 2	12.50

plus Science subject as required (12.5 points)

Fifth Year

Subject	Study Period Commencement:	Credit Points:
121-021 Environmental Politics and Management	Semester 2	12.50

plus Science subjects as required (75 points)

plus Engineering subject as required (12.5 points)

Core Participation Requirements:	-
Graduate Attributes:	-
Generic Skills:	-