Program Code
BENG

Program Minimum Units
96

Standard Duration
4 Years

Program Faculty
Faculty of Engineering, Computer and Math Sciences

AQF Level
08

Academic Year
2017

These Program Rules should be read in conjunction with the University's policies (http://www.adelaide.edu.au/policies).

Overview
This program provides study of both the theory and practice of engineering principles while providing students with a choice of electives, allowing them to follow special interests in computing hardware and software. Emphasis is placed on understanding and mastering the underlying principles and techniques of software engineering so that graduates will be able to learn and apply new technologies as they emerge in the future. The early years of the program build a scientific and engineering foundation of computing, mathematics and digital electronics, in preparation for the more specialised software engineering courses. The third and fourth years have a strong emphasis on group software development projects with close industrial connections. Students are also required to complete 12 weeks of approved practical experience during their study. Graduates of the program qualify for professional membership of Engineers Australia, the Australian Computer Society (ACS) the Institute of Electrical and Electronic Engineers (IEEE) and the American-based Association for Computing Machinery (ACM). The Bachelor of Engineering (Honours) (Software) is an AQF Level 8 qualification with a standard full-time duration of 4 years.

Academic Program Rules for Bachelor of Engineering (Honours) (Software) (BE(Hons)(Soft))
There shall be a Bachelor of Engineering (Honours) (Software) (BE(Hons)(Soft)).

Qualification Requirements

Academic Program
To qualify for the degree of Bachelor of Engineering (Honours) (Software), the student must complete satisfactorily a program of study consisting of the following requirements with a combined total of not less than 96 units, comprising:
1. Courses to the value of 96 units, including Core courses to the value of 78 units and Elective courses to the value of 18 units
2. A total of 12 weeks practical experience approved by the Faculty and of which a minimum 6 weeks should be under the supervision of a professional engineer
3. Unless exempted, international students are required to take ENG 3003 Engineering Communication EAL in lieu of either a core or elective course as advised by the Faculty
4. Students who have not undertaken SACE Stage 2 Specialist Mathematics (or equivalent) will be required to enrol in Mathematics IM, followed by Mathematics IA with Mathematics IB taken in Summer Semester to complete the Mathematics requirements at Level I. The satisfactory completion of Mathematics IM is in addition to the normal requirements for the Bachelor of Engineering (Honours)

Bachelor of Engineering (Honours) (Software)

To satisfy the requirements for Bachelor of Engineering (Honours) (Software) students must complete courses to the value of 96 units.

Core

All of the following courses must be completed:

- COMP SCI 1102 Object Oriented Programming (3 units)
- COMP SCI 1103 Algorithm Design & Data Structures (3 units)
- COMP SCI 1106 Introduction to Software Engineering (3 units)
- COMP SCI 2000 Computer Systems (3 units)
- COMP SCI 2005 Systems Programming (3 units)
- COMP SCI 2201 Algorithm & Data Structure Analysis (3 units)
- COMP SCI 2203 Problem Solving & Software Development (3 units)
- COMP SCI 2205 Software Engineering Workshop I (3 units)
- COMP SCI 2206 Software Engineering Workshop II (3 units)
- COMP SCI 2207 Web & Database Computing (3 units)
- COMP SCI 3001 Computer Networks & Applications (3 units)
- COMP SCI 3004 Operating Systems (3 units)
- COMP SCI 3013 Event Driven Computing (3 units)
- COMP SCI 3303 Engineering Software as Services I (3 units)
- COMP SCI 3304 Engineering Software as Services II (3 units)
- COMP SCI 4023 Software Process Improvement (3 units)
- COMP SCI 4404 Software Engineering Research Project (6 units)
- COMP SCI 4405 Research Methods in Software Engineering and Computer Science (3 units)
- C&ENVENG 4034 Engineering Management IV (3 units)
- ELEC ENG 1100 Analog Electronics (3 units)
- ELEC ENG 1102 Digital Electronics (3 units)
- ELEC ENG 4064 Business Management Systems UG (3 units)
- MATHS 1011 Mathematics IA (3 units)
- MATHS 1012 Mathematics IB (3 units)
- STATS 1000 Statistical Practice I (3 units)

Electives

Courses to the value of 18 units from the following:

- Level II Electives (3 units)
- Level III Electives (3 units)
- Level III or IV Electives (6 units)
- Level IV Electives (6 units)

Electives may be chosen from any undergraduate courses offered by the University that are available to the student.
Published on: 19 December, 2016 | 17:09:23

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