Bachelor of Applied Science & Bachelor of Applied Science (Honours) - Dean's Scholars Accelerated Honours Program (SC01 + SC60)

Year offered: 2011
Admissions: Yes
CRICOS code: 003502J/009041G
Course duration (full-time): 3 Years (plus initial summer term)
Domestic Fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February: Fixed Closing Date- 26 November 2010.
International Entry: February: Fixed Closing Date- 26 November 2010. This course is only available to international students completing Year 12 in Australia.
QTAC code: 418042
Past rank cut-off: 97 plus successful questionnaire and interview. Please refer to Additional Entry Requirements.
Past OP cut-off: 2 plus successful questionnaire and interview. Please refer to Additional Entry Requirements.
Assumed knowledge: English (4, SA) and Maths B (4, VHA) plus two (2) of Biological Science, Chemistry, Earth Science, Maths C or Physics (4, VHA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.qut.edu.au/assumed-knowledge
Total credit points: 384 [BAppSc 288 cp and BAppSc(Hons) 96 cp]
Course coordinator: Mr Richard Thomas
Discipline coordinator: Associate Professor John Aaskov (Microbiology, Biochemistry, Biotechnology Majors); Dr Madeleine Schultz (Chemistry Major); Dr Konstantin Momot (Physics major)
Campus: Gardens Point

Overview
The Bachelor of Applied Science Dean’s Scholars Accelerated Honours Program is an accelerated program designed specifically for outstanding current, or returning from a gap year, Year 12 students who completed their Year 12 education in Australia. It also offers an accelerated pathway that enables students to complete both the Bachelor of Applied Science and the Bachelor of Applied Science (Honours) courses in just three years. A scholarship is offered to students in the Bachelor of Applied Science Dean’s Scholars Accelerated Honours Program. Students are accepted into the program on the basis of outstanding academic ability and an interest in scientific research.

Professional Recognition
As a graduate of the Bachelor of Applied Science Dean’s Scholars Accelerated Honours Program you will qualify for professional recognition and employment in fields relevant to the specialisations that you have chosen. It is expected that many Dean's Scholars will proceed to Doctor of Philosophy studies.

Financial support
Domestic students offered a place in the Dean's Scholars Program will have their undergraduate HECS paid by the Faculty and those proceeding to Honours will also receive full HECS support.

International students will have one-third of their tuition fees paid by the faculty for the undergraduate and honours programs.

Deferment
QUT’s deferment policy does not apply to this course.

Course Structure
As a student in the Dean's Scholars Accelerated Honours Program you will choose one of the following nine majors. You will also choose a co-major to accompany your major area of study. The co-major may be one of the other majors, or it could be one of the co-majors listed below:


To allow the Dean's Scholars Program to be completed in an accelerated format some changes are made to the first year of the standard Bachelor of Applied Science (SC01) degree. The core units normally studied in first year are replaced by an enriched course of study which includes the following units:

SCB301 Science for Dean's Scholars
An intensive preparatory program immediately preceding the commencement of the first semester. This preparatory program commences mid-January and requires attendance for approximately 18 hours per week for six weeks.
SCB303 Tutorial Program for Dean's Scholars
An individually-tailored tutorial program during the first semester, under the guidance of an academic mentor. This unit is designed in a consultative process involving the student, the academic mentor, and the Dean.

SCB401 Research Methods for Dean's Scholars
The unit allows research skills to be developed through a literature review, experimental design considerations, research proposal formulation and writing, and the presentation of a research proposal.

SCB501 Research Project for Dean's Scholars
An individually tailored research project is carried out under the supervision of a research mentor.

Honours Program
Following the successful completion of the coursework and your initial research project in the first two years of the program, you will then commence the Bachelor of Applied Science (Honours) course. The Honours program continues the study of your chosen scientific major and also provides the opportunity to undertake a large research project. The Honours degree provides an excellent preparation to continue ongoing postgraduate research.

Note:
The Faculty may wish to make your project or thesis work available to other students undertaking Honours studies as an exemplar. As the copyright owner of the work you have created, the Faculty will respect your rights and will seek your authorisation to share your work.

Limits on grades of 3
A new policy concerning grades of 3 came into effect from 1 January 2009 (QUT MOPP C/5.2). With effect from this date grades of 3 are no longer considered a conceded or low pass but are classified as a fail grade. Any grades of 3 awarded prior to 1 January 2009 retain the conceded pass status and will be counted for graduation purposes up to the maximum number of grades of 3 permitted for your course. Grades of 3 incurred in units that commence after 1 January 2009 will not count towards your degree. Further information is available on the Student Services website

OP Guarantee
The OP Guarantee does not apply to this course

Further Information
For further information about this course, please contact the following:

Course Coordinator

Dr Dann Mallet
Phone: +61 7 3138 2354
Email: dg.mallet@qut.edu.au

Discipline Coordinators

Life Sciences Major:
Associate Professor John Aaskov
Phone: +61 7 3138 2144
Email: j.aaskov@qut.edu.au

Natural Resource Sciences Major:
Associate Professor David Gust
Phone: +61 7 3138 2217
Email: d.gust@qut.edu.au

Physical & Chemical Sciences Major:
Dr John McMurtrie
Phone: +61 7 3138 1220
Email: j.mcmurtrie@qut.edu.au

Course structure - Majors in Biochemistry, Biotechnology and Microbiology

Year 1, Summer Term (24 cp)
Dean's Scholars Program enrichment unit:
SCB301 Science for Dean's Scholars

Year 1, Semester 1 (60 cp)
Dean's Scholars Program enrichment unit:
SCB303 Tutorial Program for Dean's Scholars
Normal BAppSc and BAppSc(Hons) units:
BAppSc Coursework (48 cp)

Year 1, Semester 2 (60 cp)
Dean's Scholars Program enrichment unit:
SCB401 Research Methods for Dean's Scholars
Normal BAppSc and BAppSc(Hons) units:
BAppSc Coursework (48 cp)

Year 2, Semester 1 (72 cp)
Dean's Scholars Program enrichment unit:
SCB501-1 Research Project for Dean's Scholars
SCB501-2 Research Project for Dean's Scholars
Note: It may be possible/required to take SCB501-2 in the following semester.
Normal BAppSc and BAppSc(Hons) units:
BAppSc Coursework (48 cp)

Year 2, Semester 2 (60 cp)
### Dean's Scholars Program enrichment unit:
- Elective (12 cp)

### Normal BAppSc and BAppSc(Hons) units:
- BAppSc Coursework (48 cp)

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### Course structure - Major in Chemistry

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### Potential Careers:
- Actuary
- Air Traffic Controller
- Analytical Chemist
- Astrophysicist
- Biochemist
- Biologist
- Biotechnologist
- Cell Biologist
- Chemist
- Chemist Industrial
- Coastal Scientist
- Conservation Biologist
- Database Manager
- Ecologist
- Environmental Scientist
- Exploration Geologist
- Forensic Chemist
- Forensic Scientist
- Geologist
- Geophysicist
- Geoscientist
- Health Physicist
- Hydrogeologist
- Immunologist
- Industrial Chemist
- Laboratory Technician

UNIT SYNOPSES

SCB301 SCIENCE FOR DEAN'S SCHOLARS
The content of this unit is offered through a series of approximately six modules, of which students are required to complete three. The range of modules, together with the selection required, ensures that students have a broad foundation for advanced studies. The modules offered include Life Sciences, Chemistry, Physics, Mathematics, Statistics and Environmental Science.
Other requisites: Enrolment is by invitation to Science and Maths Dean's Scholars and approval of the unit coordinator.
Credit points: 24 Contact hours: 20 per week (for five weeks) Campus: Gardens Point Teaching period: 2011 SUM-2 and 2011 SEM-1

SCB303 TUTORIAL PROGRAM FOR DEAN'S SCHOLARS
The content of this unit is designed in a consultative process involving the student, the academic mentor, and the Dean. The unit aims to allow the study of topics and concepts in science that will support the student's progress in initial studies in advanced level units.
Prerequisites: SCB301 Credit points: 12 Campus: Gardens Point Teaching period: 2011 SEM-1, 2011 SEM-2 and 2011 SUM

SCB401 RESEARCH METHODS FOR DEAN'S SCHOLARS
In order to be able to commence independent research, students need to be able to identify in conjunction with an academic mentor a topic suitable for a scientific investigation, review and report on the literature relevant to the investigation, identify questions or problems to be investigated and appropriate procedures for their investigation, and develop and write a report on their investigations. This unit aims to develop these skills in students through the guidance of an academic mentor.
Prerequisites: SCB303 Credit points: 12 Contact hours: Arranged by academic mentor Campus: Gardens Point Teaching period: 2011 SEM-1, 2011 SEM-2 and 2011 SUM

SCB501 RESEARCH PROJECT FOR DEAN'S SCHOLARS
Independent research is a fundamental aspect of science and mathematics. This unit involves a small research project that may be based on a previously developed research proposal. The unit guides students through the research process from the experimentation and/or literature searching and review to the writing of a paper under the guidance of a research mentor. The research project aims to foster enhanced observational, practical, and problem solving skills, literacy and communications skills, and professional responsibility and ethical conduct.
Prerequisites: SCB401 Credit points: 12 Contact hours: (Individual research project) Campus: Gardens Point Teaching period: 2011 SEM-1, 2011 SEM-2 and 2011 SUM

Prerequisites: SCB401, SCB501-1. SCB501-1 can be enrolled in the same teaching period as SCB501-2.
Credit points: 12 Campus: Gardens Point Teaching period: 2011 SEM-1, 2011 SEM-2 and 2011 SUM

SCB501 RESEARCH PROJECT FOR DEAN'S SCHOLARS
Independent research is a fundamental aspect of science and mathematics. This unit involves a small research project that may be based on a previously developed research proposal. The unit guides students through the research process from the experimentation and/or literature searching and review to the writing of a paper under the guidance of a research mentor. The research project aims to foster enhanced observational, practical, and problem solving skills, literacy and communications skills, and professional responsibility and ethical conduct.
Prerequisites: SCB401, SCB501-1. SCB501-1 can be enrolled in the same teaching period as SCB501-2.
Credit points: 12 Campus: Gardens Point Teaching period: 2011 SEM-1, 2011 SEM-2 and 2011 SUM