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

**Year offered:** 2010  
**Admissions:** Yes  
**CRICOS code:** 003502J/009041G  
**Course duration (full-time):** 3 Years (plus initial summer term)  
**Domestic fees (indicative):** 2010: CSP $2,200 (indicative) per semester  
**International Fees (indicative):** 2010: $12,000 (indicative) per semester  
**Domestic Entry:** February: Fixed Closing Date- 27 November 2009.  
**International Entry:** February: Fixed Closing Date- 27 November 2009. This course is only available to international students completing Year 12 in Australia.  
**QTAC code:** 418042  
**Past rank cut-off:** 98 plus questionnaire and possible interview. Please refer to Additional Entry Requirements.  
**Past OP cut-off:** 2 plus questionnaire and possible 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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp  
**Total credit points:** 384 [BAppSc 288 cp and BAppSc(Hons) 96 cp]  
**Course coordinator:** Dr Dann Mallet  
**Discipline coordinator:** Associate Professor John Aaskov (Life Sciences Major); Associate Professor David Gust (Natural Resource Sciences Major); Dr John McMurtrie (Physical and Chemical Sciences Major)  
**Campus:** Gardens Point

null

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.

**Additional Entry Requirements**  
Applicants are required to complete a questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

**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.

**Fixed Closing Date**  
Applications for this program will close on 27 November, 2009.

**Who should apply?**  
The program is open to applicants currently undertaking Year 12 studies at a secondary school, and who achieve an OP 1 or 2 (or interstate equivalent). Applicants must be outstanding current, or returning from a gap year, Year 12 students who completed their Year 12 education in Australia.

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

**Career Outcomes**  
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:

**Majors:** Biochemistry, Biotechnology, Chemistry, Ecology,
Environmental Science, Forensic Science, Geoscience, Microbiology, Physics.


Course Structure
As a student in the Dean's Scholars Accelerated Honours Program you will choose one of the majors available through the Bachelor of Applied Science (SC01) course. You will also choose a co-major to accompany your major area of study.

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 onto postgraduate research.

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

<table>
<thead>
<tr>
<th>Year 1, Summer Term (24 cp)</th>
<th>Dean's Scholars Program enrichment unit:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCB301</td>
<td>Science for Dean's Scholars</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1, Semester 1 (60 cp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean's Scholars Program enrichment unit:</td>
</tr>
<tr>
<td>SCB303</td>
</tr>
<tr>
<td>Normal BAppSc and BAppSc(Hons) units: BAppSc Coursework (48 cp)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1, Semester 2 (60 cp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean's Scholars Program enrichment unit:</td>
</tr>
<tr>
<td>SCB401</td>
</tr>
<tr>
<td>Normal BAppSc and BAppSc(Hons) units: BAppSc Coursework (48 cp)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2, Semester 1 (72 cp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean's Scholars Program enrichment unit:</td>
</tr>
<tr>
<td>SCB501-1</td>
</tr>
<tr>
<td>Normal BAppSc and BAppSc(Hons) units: BAppSc Coursework (48 cp)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2, Semester 2 (60 cp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal BAppSc and BAppSc(Hons) units: BAppSc Coursework (48 cp)</td>
</tr>
</tbody>
</table>
Course structure - Major in Chemistry

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:
Elective (12 cp)
Normal BAppSc and BAppSc(Hons) units: BAppSc Coursework (48 cp)

Year 2, Semester 1 (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 2 (72 cp)
Dean's Scholars Program enrichment unit:
SCB501-1 Research Project for Dean's Scholars
Normal BAppSc and BAppSc(Hons) units: BAppSc Coursework (24 cp)

Year 3, Semester 1 (60 cp) and Semester 2 (48 cp)
Normal BAppSc and BAppSc(Hons) units: BAppSc + BAppSc(Hons) Coursework (12 cp + 36 cp respectively)
Normal BAppSc and BAppSc(Hons) units: BAppSc(Hons) Research (60 cp)

Course structure - Major in Physics

Year 1, Summer Term (24 cp)

Year 3, Semester 1 (60 cp) and Semester 2 (48 cp)
Normal BAppSc and BAppSc(Hons) units: BAppSc + BAppSc(Hons) Coursework (12 cp + 36 cp respectively)
Normal BAppSc and BAppSc(Hons) units: BAppSc(Hons) Research (60 cp)

Potential Careers:
UNIT SYNOPSIS

LSB657 PERSPECTIVES IN LIFE SCIENCE
Positive and negative aspects of humanity’s use of resources are critically analysed in this unit. Topics include: humanity’s food supply; humanity’s profligate consumption of energy; global climate change; losses of soils and ecosystems and species; and contemporary aspects of biotechnology such as the GM food debate; ethical aspects of medical and corporate biotechnology.
Prerequisite(s): LSB118  Contact hours: 4 per week  Campus: Gardens Point

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: Unit coordinator approval is required to enrol  Credit points: 24  Contact hours: 20 per week (for five weeks)  Campus: Gardens Point  Teaching period: 2010 SUM-2 and 2010 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.
Credit points: 12  Campus: Gardens Point  Teaching period: 2010 SEM-1

SCB401 RESEARCH METHODS FOR DEAN’S SCHOLARS
This unit includes a literature review, experimental design, research proposal formulation and writing, and presentation of a research proposal.
Credit points: 12  Contact hours: Arranged by academic mentor  Campus: Gardens Point  Teaching period: 2010 SEM-1, 2010 SEM-2 and 2010 SUM

SCB501 RESEARCH PROJECT FOR DEAN’S SCHOLARS
This unit includes an individually tailored research project carried out under the supervision of a research mentor.
Credit points: 12  Contact hours: (Individual research project)  Campus: Gardens Point  Teaching period: 2010 SEM-1, 2010 SEM-2 and 2010 SUM