2009 Course Summary Sheet

■ Master of Biotechnology (Advanced) (LS96)

This document will assist you with the selection of your study program and completion of your enrolment. Other useful information can be found on the Student Services website studentservices.qut.com/, which can also be accessed via the Online Enrolment portlet.

Location: Gardens Point campus

Course Duration: 4 semesters (2 years) full-time, 8 semesters (4 years) part-time

Course Commencement: Course commences in July* (Note: Students commencing in July, enrol in Semester 2 units first)

Total Credit Points: 192

Standard Credit Points/Full-time Semester: 48

Course Coordinator: Dr Mark O'Brien, Phone 07 3138 2568, Fax 07 3138 1534, Room Q814 Gardens Point,
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Entry Requirements

This course is designed for those applicants who wish to first gain a knowledge and skills base in molecular biology, cell biology, biochemistry and microbiology and then to upgrade that knowledge and skills base in several key and relevant areas of medical, plant and/or general biotechnology. A bachelor degree or equivalent (preferably, but not necessarily, in science) is advised. Please contact the course coordinator for further information on the entry requirements for this course.

***** *LS96 commences in July (Module 1 entry). Students with advanced standing for Module 1 should commence in February as the Faculty does not offer sufficient units in Module 2 in second semester. Note especially that the February entry point for this course is for students with advanced standing for Module 1. It is not possible to commence Module 1 in February*

For students with advanced standing for Module 1 and who wish to enter LS96 in July, a modified program will be required and this should be discussed with the course coordinator prior to enrolment. Students should note that this may require them to study business electives only in their first semester and could lead to them having to take an additional semester to complete the requirements of their program. Also, students may not be able to undertake the project component of LS96.

Important Note: Please ensure you select the correct teaching period, class and location code for all units you are enrolled in. All units in this course have a class of Internal.

Limits on grades of 3: A new policy concerning grades of 3 comes into effect from 1 January 2009 (QUT MOPP C/9.2). With effect from this date grades of 3 will no longer be considered a conceded or low pass but will be classified as a fail grade. Any grades of 3 awarded prior to 1 January 2009 will 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. The maximum number of pre-2009 grades of 3 permitted for this course can be found here.

Full-time Course Structure

Please note: No credit will be given for any units already satisfactorily completed within an undergraduate degree. Students are expected to undertake a program of study that extends the coursework within their undergraduate degree.

		Credit Points	Contact Hrs/Wk	Location Code	Prerequisite(s)	Corequisite(s)
Year 1, Semester 2 (MODULE 1)						
LSN101	Molecular Biosciences	12	4	GP		LSB468, LSN102
LSN102	Cellular Biosciences	12	4	GP		LSB468, LSN101
LSN103	Postgraduate Research and Learning Skills	12	4	GP		
LQB483	Molecular Biology Techniques	12	4	GP	SCB122	
Year 2, Semester 1 (MODULE 2)						
LSP127	Business Aspects of Biotechnology	12	4	GP		
Either						
LSB509	Medical Biotechnology	12	4	GP	LSB468	
Or						
LSB577	Plant Biotechnology 1	12	4	GP	LSB468	
In consultation with the course coordinator, choose 24 credit points from the following units:						
LSB509	Medical Biotechnology	12	4	GP	LSB468	
LSB527	Biomedical Research Technologies	12	2	GP	LSB308	
LSB577	Plant Biotechnology 1	12	4	GP	LSB468	

Year 2, Semester 1 (MODULE 2) ***(Continued)***		**Credit Points**	**Contact Hrs/Wk**	**Location Code**	**Prerequisite(s)**	**Corequisite(s)**
GSN408	Fundamentals of Marketing Management	6	3	GP		
HHB270	Gene Technology and Ethics	12	3	GP		
IBN408	Global Business Operations	12	3	GP		
LWN135	Law, Justice and New Genetic Technologies	12	26 hours in total	GP		
Year 2, Semester 2 (MODULE 3)						
BSB311	Research, Development and Commercialisation Strategies	12	3	GP		
Either						
LSB609	Medical Biotechnology 2	12	4	GP	LSB449	
Or						
LSB677	Plant Biotechnology 2	12	4	GP	LSB537	
In consultation with the course coordinator, choose 24 credit points from the following units:						
LQB484	Introduction to Genomics and Bioinformatics	12	4	GP	LQB383	
LSB605	Protein Engineering and Bioprocessing	12	4	GP	LSB468	
LSB607	Protein Purification	12	4	GP	LSB308	
LSB608	Protein Science	12	4	GP	LSB308	
LSB609	Medical Biotechnology 2	12	4	GP	LSB449	
LSB619	Genomics and Bioinformatics	12	4	GP	LSB537	
LSB677	Plant Biotechnology 2	12	4	GP	LSB537	
GSN418	Marketing Strategy Development	6	3	GP	GSN408	
MGN409	Introduction to Management	12	3	GP		
MGN428	Creating New Businesses	12	3	GP		
Students who qualify for an exemption from LSB609 or LSB677 on the basis of undergraduate studies are required to undertake an additional unit from the list above.						
Year 3, Semester 1 (MODULE 4)						
LSN710	Project	48	16	GP		
For those students <u>NOT</u> undertaking LSN710 Project, in consultation with the course coordinator, choose 48 credit points from the following units:						
LSB509	Medical Biotechnology	12	4	GP	LSB468	
LSB527	Biomedical Research Technologies	12	2	GP	LSB308	
LSB577	Plant Biotechnology 1	12	4	GP	LSB468	
GSN408	Fundamentals of Marketing Management	6	3	GP		
HHB270	Gene Technology and Ethics	12	3	GP		
IBN408	Global Business Operations	12	3	GP		
LWN135	Law, Justice and New Genetic Technologies	12	26 hours in total	GP		
Students who qualify for an exemption from LSB509 or LSB577 on the basis of undergraduate studies are required to undertake an additional unit from the list above.						

Part-time Course Structure

Please note: No credit will be given for any units already satisfactorily completed within an undergraduate degree. Students are expected to undertake a program of study that <u>extends</u> the coursework within their undergraduate degree.

		Credit Points	Contact Hrs/Wk	Location Code	Prerequisite(s)	Corequisite(s)
Year 1, Semester 2 (MODULE 1)						
LSN101	Molecular Biosciences	12	4	GP		LSB468, LSN102
LSN102	Cellular Biosciences	12	4	GP		LSB468, LSN101
Year 2, Semester 1 (MODULE 1)						
LQB483	Molecular Biology Techniques	12	4	GP	SCB122	
In consultation with the course coordinator, choose 12 credit points from the following units:						
LSB509	Medical Biotechnology	12	4	GP	LSB468	
LSB527	Biomedical Research Technologies	12	2	GP	LSB308	
LSB577	Plant Biotechnology 1	12	4	GP	LSB468	
GSN408	Fundamentals of Marketing Management	6	3	GP		
HHB270	Gene Technology and Ethics	12	3	GP		
IBN408	Global Business Operations	12	3	GP		
LWN135	Law, Justice and New Genetic Technologies	12	26 hours in total	GP		
Year 2, Semester 2 (MODULE 3)						
LSN103	Postgraduate Learning and Research Skills	12	4	GP		
In consultation with the course coordinator, choose 12 credit points from the following units:						
LQB484	Introduction to Genomics and Bioinformatics	12	4	GP	LQB383	
LSB605	Protein Engineering and Bioprocessing	12	4	GP	LSB468	
LSB607	Protein Purification	12	4	GP	LSB308	
LSB608	Protein Science	12	4	GP	LSB308	
GSN418	Marketing Strategy Development	6	3	GP	GSN408	
MGN409	Introduction to Management	12	3	GP		
MGN428	Creating New Businesses	12	3	GP		
Year 3, Semester 1 (MODULE 2)						
LSP127	Business Aspects of Biotechnology	12	4	GP		
Either						
LSB509	Medical Biotechnology	12	4	GP	LSB468	
Or						
LSB577	Plant Biotechnology 1	12	4	GP	LSB468	

Students who qualify for an exemption from LSB509 or LSB577 on the basis of undergraduate studies are required to undertake an additional unit from the list electives outlined for the full-time program Year1, Semester 1.

Year 3, Semester 2 (MODULE 3)						
BSB311	Research, Development and Commercialisation Strategies	12	3	GP		
Either						
LSB609	Medical Biotechnology 2	12	4	GP	LSB449	
Or						
LSB677	Plant Biotechnology 2	12	4	GP	LSB537	

Students who qualify for an exemption from LSB609 or LSB677 on the basis of undergraduate studies are required to undertake an additional unit from the list of electives for the full-time Year 2, Semester2 program above.

Year 4, Semester 1 (MODULE 2)						
In consultation with the course coordinator, choose 24 credit points from the following units:						
LSB509	Medical Biotechnology	12	4	GP	LSB468	
LSB527	Biomedical Research Technologies	12	2	GP	LSB308	
LSB577	Plant Biotechnology 1	12	4	GP	LSB468	
GSN408	Fundamentals of Marketing Management	6	3	GP		
HHB270	Gene Technology and Ethics	12	3	GP		
IBN408	Global Business Operations	12	3	GP		
LWN135	Law, Justice and New Genetic Technologies	12	26 hours in total	GP		

Students who qualify for an exemption from LSB509 or LSB577 on the basis of undergraduate studies are required to undertake an additional unit from the list electives outlined for the full-time program Year 1, Semester 1 above.

		Credit Points	Contact Hrs/Wk	Location Code	Prerequisite(s)	Corequisite(s)
Year 4, Semester 2 (MODULE 4)						
LSN711	Project 1	24	8	GP		
For those students NOT undertaking LSN711 Project 1, in consultation with the course coordinator, choose 24 credit points from the following units:						
LQB484	Introduction to Genomics and Bioinformatics	12	4	GP	LQB383	
LSB605	Protein Engineering and Bioprocessing	12	4	GP	LSB468	
LSB607	Protein Purification	12	4	GP	LSB308	
LSB608	Protein Science	12	4	GP	LSB308	
LSB609	Medical Biotechnology 2	12	4	GP	LSB449	
LSB619	Genomics and Bioinformatics	12	4	GP	LSB537	
LSB677	Plant Biotechnology 2	12	4	GP	LSB537	
GSN418	Marketing Strategy Development	6	3	GP	GSN408	
MGN409	Introduction to Management	12	3	GP		
MGN428	Creating New Businesses	12	3	GP		
Year 5, Semester 1 (MODULE 4)						
LSN712	Project	24	8	GP		
For those students NOT undertaking LSN712 Project 2, in consultation with the course coordinator, choose 48 credit points from the following units:						
LSB509	Medical Biotechnology	12	4	GP	LSB468	
LSB527	Biomedical Research Technologies	12	2	GP	LSB308	
LSB577	Plant Biotechnology 1	12	4	GP	LSB468	
GSN408	Fundamentals of Marketing Management	6	3	GP		
HHB270	Gene Technology and Ethics	12	3	GP		
IBN408	Global Business Operations	12	3	GP		
LWN135	Law, Justice and New Genetic Technologies	12	26 hours in total	GP		

Students who qualify for an exemption from LSB509 or LSB577 on the basis of undergraduate studies are required to undertake an additional unit from the list electives outlined for the full-time program Year1, Semester 1.