

# Bachelor of Medical Laboratory Science (Pathology)



Sunshine Coast, Semester 1 2024

## Program structure

Introductory courses (9) 108 units

MLS101 Foundations in Medical Science  
HLT140 Think Health  
SCI105 Introductory Chemistry  
MLS100 Haematology  
MLS121 Histology  
MLS131 Medical Laboratory Placement 1  
LFS112 Human Physiology  
LFS122 Human Anatomy  
LFS100 Cell Biology

Developing courses (8) 96 units

MLS200 Clinical Microbiology I  
MLS201 Advanced Haematology  
HLT221 Human Pathophysiology  
LFS251 Biochemistry  
MLS211 Medical Biochemistry  
MLS231 Medical Laboratory Placement 2  
BIM200 Blood Banking and Transfusion Sciences  
BIM202 Medical Genetics

Graduate courses (10) 132 units

MLS300 Clinical Microbiology II  
MLS302 Molecular Diagnostics  
BIM331 Immunology  
BIM341 Biochemical Pharmacology  
MLS301 Histopathology  
BIM371 Clinical Embryology  
MBT353 Microbial Pathogenesis  
MLS400 Case-based Laboratory Practice  
MLS401 Laboratory Quality Systems  
MLS402 Medical Laboratory Placement 3

**Total units: 336**

## Study sequence

[usc.edu.au/ub001](http://usc.edu.au/ub001)

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Study options and teaching period of offer can vary depending on the study location. For full details, visit [usc.edu.au](http://usc.edu.au).

#### Study Period 1

COURSE	SEMESTER OF OFFER (SUNSHINE COAST)	UNITS	REQUISITES
HLT140 Think Health	• Semester 1	12	
LFS100 Cell Biology	• Semester 1	12	Anti: SCI103 or LFS101 or LFS103
MLS101 Foundations in Medical Science	• Semester 1	12	Pre: Enrolled in Program SC211, SC355, SC357, SC385, SC201, SC301 or UB001
SCI105 Introductory Chemistry	• Semester 1, Semester 2	12	Anti: SCI505

#### Study Period 2

COURSE	SEMESTER OF OFFER (SUNSHINE COAST)	UNITS	REQUISITES
LFS112 Human Physiology	• Semester 2	12	Anti: LFS201 or LFS202 or LFS203
LFS122 Human Anatomy	• Semester 2	12	
MLS100 Haematology	• Semester 2	12	Pre: Enrolled in Program UB001, SC385, SC211, SC357 or SC355
MLS121 Histology	• Session 6	12	Pre: LFS100 and enrolled in Program SC211, SC385 or UB001  Co: LFS112
MLS131 Medical Laboratory Placement 1	• Session 1, Session 5, Session 8	12	Pre: MLS101 and MLS121 and enrolled in Program SC211 or UB001  Co: MLS100 or MLS110

#### Study Period 1

COURSE	SEMESTER OF OFFER (SUNSHINE COAST)	UNITS	REQUISITES
HLT221 Human Pathophysiology	• Semester 1	12	Pre: LFS112 or HLT100 and enrolled in Program SC211, SC304, SC306, SC367, SC391, SC392, SC394, SC395, SC346 or UB001  Anti:

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LFS251 Biochemistry	• Semester 1	12	LFS203 or LFS303 or NUR221 or PAR221  Pre: SCI105 and (LFS100 or LFS103)  Anti: MBT251
MLS200 Clinical Microbiology I #	• Not Currently Offered	12	Pre: LFS100 and MLS101 and enrolled in UB001 or SC211
MLS201 Advanced Haematology	• Not Currently Offered	12	Pre: MLS100 or MLS110 and enrolled in Program UB001 or SC211 or SC355 or SC357

#### Study Period 2

COURSE	SEMESTER OF OFFER (SUNSHINE COAST)	UNITS	REQUISITES
BIM200 Blood Banking and Transfusion Sciences	• Not Currently Offered	12	Pre: LFS112 and (MLS100 or MLS110) and enrolled in Program UB001 or SC355 or SC357
BIM202 Medical Genetics	• Semester 2	12	Pre: LFS100 or LFS103
MLS211 Medical Biochemistry	• Semester 2	12	Pre: LFS251
MLS231 Medical Laboratory Placement 2	• Session 1, Session 5, Session 8	12	Pre: MLS131 and enrolled in Program SC211 or UB001

#### Study Period 1

COURSE	SEMESTER OF OFFER (SUNSHINE COAST)	UNITS	REQUISITES
BIM331 Immunology	• Semester 1	12	Pre: LFS202 or LFS203 or (LFS112 and enrolled in Program SC301, SB301, SA301, SA308, SE303 or UB001) OR  Co: LFS203 and enrolled in Program SC357 or SC355 (Associate Degree in Medical Laboratory Science pathway only)
BIM341 Biochemical Pharmacology	• Semester 1	12	Pre: MBT251 or LFS251  Anti:

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## MBT351

MLS300 Clinical Microbiology II #	• Not Currently Offered	12
MLS302 Molecular Diagnostics #	• Not Currently Offered	12

## Study Period 2

COURSE	SEMESTER OF OFFER (SUNSHINE COAST)	UNITS	REQUISITES
MBT353 Microbial Pathogenesis	• Semester 2	12	Pre: Course Coordinator Consent Required and MBT263 or LFS261 or (MLS200 and enrolled in UB001)  Anti: MEP351
MLS301 Histopathology #	• Not Currently Offered	12	
BIM371 Clinical Embryology	• Session 8	12	Pre: LFS202 or LFS203 or enrolled in Program SC357

## Study Period 1

COURSE	SEMESTER OF OFFER (SUNSHINE COAST)	UNITS	REQUISITES
MLS401 Laboratory Quality Systems #	• Not Currently Offered	12	
MLS400 Case-based Laboratory Practice #	• Not Currently Offered	12	Pre: MLS300 and MLS301
MLS402 Medical Laboratory Placement 3 #	• Not Currently Offered	24	Co: MLS400 and MLS401

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## Program requirements and notes

- To successfully complete the Bachelor of Medical Laboratory Science (Pathology) and meet accreditation requirements of the Australian Institute of Medical and Clinical Scientists (AIMS) student must:  
attend and participate in all on-campus practical classes in the following courses:

- MLS101 Foundations in Medical Science
- MLS100 Haematology
- MLS121 Histology
- BIM200 Blood Banking and Transfusion Science
- MLS200 Clinical Microbiology I
- MLS201 Advanced Haematology
- MLS211 Medical Biochemistry
- MLS300 Clinical Microbiology II
- MLS301 Histopathology
- MLS302 Molecular Diagnostics

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- MLS400 Case Based Laboratory Practice
- MLS401 Laboratory Quality Systems

pass both the theory and laboratory practical assessments in the following courses:

- MLS200 Clinical Microbiology I
- MLS201 Advanced Haematology
- MLS211 Medical Biochemistry
- MLS300 Clinical Microbiology II
- MLS301 Histopathology
- MLS302 Molecular Diagnostics
- MLS400 Case Based Laboratory Practice
- MLS401 Laboratory Quality Systems

and

attain at least 50% in the theory assessment and at least 80% in the final practical assessment in

- BIM200 Blood Banking and Transfusion Science

WIL notes

UniSC still strongly recommends that all students undertaking placement are fully vaccinated and provide evidence of this vaccination status to the University.

It is a Queensland Government requirement that students undertaking a placement within a clinical setting are fit tested annually for an approved respirator. Clinical settings include hospitals, residential aged care facilities, residential disability care facilities, prison health services, youth detention health services, community health care settings, and vaccination clinics). If the Fit Testing requirement applies to placement activity within your Program it will appear in your mandatory checks on Sonia Online (our UniSC Work Integrated Learning system). In accordance with Australian Standards, you must be clean shaven for your fit test. Facial hair that lies along the sealing surface of a tight-fitting respirator prevents an effective seal. Therefore, it is a requirement that there is no hair growth between the skin and the facepiece sealing surface in order to achieve a fit. At this stage, there is no exemption in Queensland to this requirement for religious or other reasons and UniSC is unable to waive this requirement.

In order to commence industry placement you must:

- Before undertaking industry placement courses, students must provide proof of vaccination against Hepatitis B, Measles, Mumps, Rubella, Pertussis and Varicella (Chickenpox) etc.
- Have a National Criminal History check (by Queensland Police Service or other state/territory authority).
- Hold a valid USC Blue Card for working with children.
- Students must undertake mandatory online orientation courses for the organisations where they will be placed, and will be required to sign a confidentiality agreement regarding patient information.
- Students will be required to complete placement(s) in rural/regional locations. Students will be required to fund the cost for travel, accommodation, fuel etc. associated with placement. USC scholarships and bursaries are available for students to apply to supplement these costs.
- For information about how to complete Post-admission requirements, visit Medical Laboratory Science (Placements) - Mandatory requirements.
- This program includes placements in settings that may require COVID-19 vaccination with limited placement in settings that do not require full vaccination.