

Bachelor of Medical Science (with specialisations)

includes:

Bachelor of Medical Science (with specialisations)

The Bachelor of Medical Science is an internationally recognised and accredited course which offers diverse career options in the health care industry. The course offers the flexibility to choose an area of specialisation such as Pathology or Clinical Physiology. Graduates are equipped for employment in many areas of clinical medical science such as anatomy, biochemistry, biotechnology, blood bank, cell biology, cytogenetics, genetics, haematology, histology, immunology, immunohaematology, and microbiology as well as clinical measurement laboratories, hospitals and university research teams, and in paramedical and mediatechnology-based programs. The course is accredited with a range of professional bodies in the health care field. This course includes practical experience through workplace learning.

The course includes the following awards:

Bachelor of Medical Science *BMedSc*

Bachelor of Medical Science (Biotechnology) *BMedSc(Biotech)*

Bachelor of Medical Science (Clinical Physiology) *BMedSc(ClinPhysiol)*

Bachelor of Medical Science (Pathology) *BMedSc(Path)*

Course Study Modes and Locations

Bachelor of Medical Science (4414US)

Distance Education - Wagga Wagga

On Campus - Wagga Wagga

Availability is subject to change, please verify prior to enrolment.

Normal course duration

Bachelor of Medical Science (with specialisations)

Full-time 3.0 years (6.0 sessions)

Normal course duration is the effective period of time taken to complete a course when studied Full-time (Full-time Equivalent: FTE). Students are advised to consult the Enrolment Pattern for the actual length of study. Not all courses are offered in Full-time mode.

Admission criteria

[CSU Admission Policy](#)

Whilst there are no HSC subjects specified as a prerequisite for admission, school leavers are advised to include 2 unit Mathematics and 2 unit Chemistry in their HSC studies or recognised equivalent.

Successful applicants who believe they do not have an appropriate high school chemistry background are strongly recommended to undertake the chemistry subject offered in the University's Studylink supplementary program prior to commencing study in the course.

Students entering the course mid-year may not be able to complete full-time study in their first session of enrolment.

Credit

[CSU Credit Policy](#)

No special arrangements apply

Graduation requirements

To graduate students must satisfactorily complete 192 points.

Course Structure

The course consists of 192 points comprised of: compulsory common subjects (12 subjects; 96 points) and **either** restricted elective subjects (96 points) **or** a specialisation in one of the following areas:

- Biotechnology
- Pathology
- Clinical Physiology

Core subjects (96 points)

[IKC100](#)Indigenous Health

[BCM210](#)Foundations and Techniques of Biochemistry

[BMS105](#)Science Communication and Methodology

[BMS129](#)Physiological Sciences 1
[BMS130](#)Physiological Sciences 2
[BMS240](#)Human Molecular Genetics
[BMS241](#)Molecular Cell Biology
[BMS308](#)Immunology
[CHM104](#)Chemistry 1A
[CHM107](#)Chemistry 1B
[MCR101](#)Introduction to Microbiology
[STA201](#)Scientific Statistics

Restricted elective subjects for generic course (96 points)

Students can choose subjects from the two specialisations and can also select any of the following subjects:

[BMS208](#)Human Nutrition
[BMS233](#)Nutritional Physiology
[BMS243](#)Nutrition, Metabolism & Human Disease
[BMS256](#)Exercise Science for Health Practice
[BMS342](#)Medicinal and Indigenous Foods
[BMS406](#)Human Reproductive Biology
[PSY111](#)Foundations of Psychology for Health and Human Services
[SCI301](#)International Practical Experience
[PSY214](#)Health Psychology

Biotechnology specialisation(96 points)

[BCM302](#)Food and Beverage Biotechnology
[BMS238](#)Foundations of Biotechnology
[BMS215](#)Microbial Biotechnology
[BMS235](#)Protein Biochemistry
[BMS237](#)Integrated Clinical Placement 1
[BMS304](#)Fundamentals of DNA fingerprinting
[BMS315](#)Medical Microbiology
[SCI300](#)Biotechnology and Industry (16)
[BMS344](#)Molecular Immunology
[BMS345](#)Therapeutic Proteins
[BMS346](#)Genomics, Proteomics & Bioinformatics

Pathology specialisation(96 points)

[BMS207](#)Clinical Biochemistry 1
[BMS216](#)Introductory Haematology
[BMS229](#)Histopathology 1
[BMS237](#)Integrated Clinical Placement 1
[BMS352](#)Molecular Pathology

[BMS302](#)Clinical Biochemistry 2
[BMS337](#)Histopathology 2
[BMS338](#)Clinical Bacteriology
[BMS315](#)Medical Microbiology
[BMS306](#)Advanced Haematology
[BMS324](#)Immunohaematology and Blood Transfusion
[BMS351](#)Integrated Clinical Placement 2

Clinical Physiologyspecialisation (96 points)

[BMS239](#)Clinical Measurement
[BMS291](#)Pathophysiology & Pharmacology 1
[BMS292](#)Pathophysiology & Pharmacology 2
[BMS301](#)Medical Science Special Topic
[BMS321](#)Clinical Neuroscience
[BMS329](#)Clinical Neurophysiology
[BMS332](#)Clinical Cardiovascular Physiology
[BMS237](#)Integrated Clinical Placement 1
[RSC201](#)Cardiorespiratory Anatomy and Physiology
[RSC301](#)Asthma Management
[RSC431](#)Advanced Pulmonary Function Testing
[RSC441](#)Advanced Respiratory Laboratory Diagnostics

Enrolment Pattern

Bachelor of Medical Science (generic)

By full time study

Session 1

[CHM104](#)Chemistry 1A
[BMS105](#)Science Communication and Methodology
[IKC100](#)Indigenous Health
[BMS129](#)Physiological Sciences 1

Session 2

[CHM107](#)Chemistry 1B
[MCR101](#)Introduction to Microbiology
[BMS130](#)Physiological Sciences 2
[STA201](#)Scientific Statistics

Session 3

[BCM210](#)Foundations and Techniques of Biochemistry
[BMS240](#)Human Molecular Genetics
[restricted elective]

[restricted elective]

Session 4

[BMS241](#)Molecular Cell Biology

[restricted elective]

[restricted elective]

[restricted elective]

Session 5

[BMS308](#)Immunology

[restricted elective]

[restricted elective]

[restricted elective]

Session 6

[restricted elective]

[restricted elective]

[restricted elective]

[restricted elective]

By part time distance education study

Session 1

[CHM104](#)Chemistry 1A

[BMS105](#)Science Communication and Methodology

Session 2

[CHM107](#)Chemistry 1B

[STA201](#)Scientific Statistics

Session 3

[IKC100](#)Indigenous Health

[BMS129](#)Physiological Sciences 1

Session 4

[MCR101](#)Introduction to Microbiology

[BMS130](#)Physiological Sciences 2

Session 5

[BCM210](#)Foundations and Techniques of Biochemistry

[BMS240](#)Human Molecular Genetics

Session 6

[BMS241](#)Molecular Cell Biology

[restricted elective]

Session 7

[BMS308](#)Immunology

[restricted elective]

Sessions 8-12

Student complete a total of 8 restricted electives

Bachelor of Medical Science (Pathology)

By full time study

Session 1

[CHM104](#)Chemistry 1A

[BMS105](#)Science Communication and Methodology

[IKC100](#)Indigenous Health

[BMS129](#)Physiological Sciences 1

Session 2

[CHM107](#)Chemistry 1B

[MCR101](#)Introduction to Microbiology

[BMS130](#)Physiological Sciences 2

[STA201](#)Scientific Statistics

Session 3

[BCM210](#)Foundations and Techniques of Biochemistry

[BMS240](#)Human Molecular Genetics

[BMS216](#)Introductory Haematology

[BMS229](#)Histopathology 1

Session 4

[BMS241](#)Molecular Cell Biology

[BMS207](#)Clinical Biochemistry 1

[BMS337](#)Histopathology 2

[BMS237](#)Integrated Clinical Placement 1

Session 5

[BMS308](#)Immunology

[BMS351](#)Integrated Clinical Placement 2

[BMS315](#)Medical Microbiology

[BMS302](#)Clinical Biochemistry 2

Session 6

[BMS338](#)Clinical Bacteriology

[BMS352](#)Molecular Pathology
[BMS306](#)Advanced Haematology
[BMS324](#)Immunohaematology and Blood Transfusion

By part time distance education study

Session 1

[CHM104](#)Chemistry 1A
[BMS105](#)Science Communication and Methodology

Session 2

[CHM107](#)Chemistry 1B
[STA201](#)Scientific Statistics

Session 3

[IKC100](#)Indigenous health
[BMS129](#)Physiological Sciences 1

Session 4

[MCR101](#)Introduction to Microbiology
[BMS130](#)Physiological Sciences 2

Session 5

[BCM210](#)Foundations and Techniques of Biochemistry
[BMS240](#)Human Molecular Genetics

Session 6

[BMS241](#)Molecular Cell Biology
[BMS207](#)Clinical Biochemistry 1

Session 7

[BMS216](#)Introductory Haematology
[BMS229](#)Histopathology 1

Session 8

[BMS337](#)Histopathology 2
[BMS338](#)Clinical Bacteriology

Session 9

[BMS308](#)Immunology
[BMS237](#)Integrated Clinical Placement 1

Session 10

[BMS306](#)Advanced Haematology
[BMS324](#)Immunohaematology and Blood Transfusion

Session 11

[BMS315](#)Medical Microbiology

[BMS302](#)Clinical Biochemistry 2

Session 12

[BMS351](#)Integrated Clinical Placement 2

[BMS352](#)Molecular Pathology

Bachelor of Medical Science (Clinical Physiology)**By full time study****Session 1**

[CHM104](#)Chemistry 1A

[BMS105](#)Science Communication and Methodology

[IKC100](#)Indigenous Health

[BMS129](#)Physiological Sciences 1

Session 2

[CHM107](#)Chemistry 1B

[MCR101](#)Introduction to Microbiology

[BMS130](#)Physiological Sciences 2

[STA201](#)Scientific Statistics

Session 3

[BCM210](#)Foundations and Techniques of Biochemistry

[BMS239](#)Clinical Measurement

[BMS240](#)Human Molecular Genetics

[RSC201](#)Cardiorespiratory Anatomy & Physiology

Session 4

[BMS241](#)Molecular Cell Biology

[BMS321](#)Clinical Neuroscience

[RSC301](#)Asthma Management

[BMS332](#)Clinical Cardiovascular Physiology

Session 5

[BMS237](#)Integrated Clinical Placement 1*

[BMS291](#)Pathophysiology & Pharmacology 1

[BMS308](#)Immunology

[BMS329](#)Clinical Neurophysiology

Session 6

[BMS292](#)Pathophysiology & Pharmacology 2

[BMS301](#)Medical Science Special Topic

[RSC431](#)Advanced Pulmonary Function Testing

[RSC441](#)Advanced Respiratory Laboratory Diagnostics

By part time distance education study

Session 1

[CHM104](#)Chemistry 1A

[BMS105](#)Science Communication and Methodology

Session 2

[CHM107](#)Chemistry 1B

[STA201](#)Scientific Statistics

Session 3

[IKC100](#)Indigenous health

[BMS129](#)Physiological Sciences 1

Session 4

[MCR101](#)Introduction to Microbiology

[BMS130](#)Physiological Sciences 2

Session 5

[BMS239](#)Clinical Measurement

[BMS240](#)Human Molecular Genetics

Session 6

[BMS241](#)Molecular Cell Biology

[RSC301](#)Asthma Management

Session 7

[BCM210](#)Foundations and Techniques of Biochemistry

[RSC201](#)Cardiorespiratory Anatomy & Physiology

Session 8

[BMS321](#)Clinical Neurophysiology

[BMS332](#)Clinical Cardiovascular Physiology

Session 9

[BMS237](#)Integrated Clinical Placement 1

[BMS291](#)Pathophysiology & Pharmacology 1

Session 10

[BMS292](#)Pathophysiology & Pharmacology 2

[BMS301](#)Medical Science Special Topic

Session 11[BMS308](#)Immunology[BMS329](#)Clinical Neurophysiology**Session 12**[RSC431](#)Advanced Pulmonary Function Testing[RSC441](#)Advanced Respiratory Laboratory Diagnostics**Bachelor of Medical Science (Biotechnology)****By full time, on-campus study****Session 1**[BMS129](#)Physiological Sciences 1[BMS105](#)Science Communication and Methodology[CHM104](#)Chemistry 1A[IKC100](#)Indigenous Health**Session 2**[BMS130](#)Physiological Sciences 2[MCR101](#)Introduction to Microbiology[CHM107](#)Chemistry 1B[STA201](#)Scientific Statistics**Session 3**[BCM210](#)Foundations and Techniques of Biochemistry[BMS240](#)Human Molecular Genetics[BMS238](#)Foundations of Biotechnology[BMS215](#)Microbial Biotechnology**Session 4**[BMS241](#)Molecular Cell Biology[BMS237](#)Integrated Clinical Placement 1[BMS235](#)Protein Biochemistry[BMS304](#)Fundamentals of DNA fingerprinting**Session 5**[BMS308](#)Immunology[SCI300](#)Biotechnology and Industry (16 points)(commence)[BMS315](#)Medical Microbiology[BCM302](#)Food and Beverage Biotechnology**Session 6**[SCI300](#)Biotechnology and Industry (16 points)(complete)[BMS345](#)Therapeutic Proteins[BMS344](#)Molecular Immunology

[BMS346](#) Genomics, Proteomics & Bioinformatics

By distance study

Session 1

[BMS105](#) Science Communication and Methodology

[CHM104](#) Chemistry 1A

Session 2

[CHM107](#) Chemistry 1B

[STA201](#) Scientific Statistics

Session 3

[BMS129](#) Physiological Sciences 1

[IKC100](#) Indigenous Health

Session 4

[BMS130](#) Physiological Sciences 2

[MCR101](#) Introduction to Microbiology

Session 5

[BCM210](#) Foundations and Techniques of Biochemistry

[BMS240](#) Human Molecular Genetics

Session 6

[BMS241](#) Molecular Cell Biology

[BMS235](#) Protein Biochemistry

Session 7

[BMS238](#) Foundations of Biotechnology

[BMS215](#) Microbial Biotechnology

Session 8

[BMS237](#) Integrated Clinical Placement 1

[BMS304](#) Fundamentals of DNA fingerprinting

Session 9

[BMS308](#) Immunology

[BMS315](#) Medical Microbiology

Session 10

[BMS344](#) Molecular Immunology

[BMS345](#) Therapeutic Proteins

Session 11

[SCI300](#)Biotechnology and Industry (16 points)(commence)
[BCM302](#)Food and Beverage Biotechnology

Session 12

[SCI300](#)Biotechnology and Industry (16 points)(complete)
[BMS346](#)Genomics, Proteomics & Bioinformatics

Workplace learning

Please note that the following subjects may contain a Workplace Learning component.

BMS237 Integrated Clinical Placement 1
BMS351 Integrated Clinical Placement 2

Residential School

Please note that the following subjects may have a residential school component.

BCM210 Foundations and Techniques in Biochemistry
BCM302 Food and Beverage Biotechnology
BMS129 Physiological Sciences 1
BMS130 Physiological Sciences 2
BMS207 Clinical Biochemistry 1
BMS215 Microbial Biotechnology
BMS216 Introductory Haematology
BMS229 Histopathology 1
BMS235 Protein Biochemistry
BMS238 Foundations of Biotechnology
BMS241 Molecular Cell Biology
BMS256 Exercise Science for Health Practice
BMS302 Clinical Biochemistry 2
BMS304 Fundamentals of DNA Fingerprinting
BMS306 Advanced Haematology
BMS308 Immunology
BMS315 Medical Microbiology
BMS324 Immunohaematology and Blood Transfusion
BMS338 Clinical Bacteriology
BMS352 Molecular Pathology
CHM104 Chemistry 1A
CHM107 Chemistry 1B
MCR101 Introduction to Microbiology

Enrolled students can find further information about CSU residential schools via the [About](#)

[Residential School](#) page.

Accreditation

The Bachelor of Medical Science (Pathology) has accreditation from the Australian Institute of Medical Scientists (AIMS).

Contact

For further information about Charles Sturt University, or this course offering, please contact info.csu on 1800 334 733 (free call within Australia) or email inquiry@csu.edu.au

The information contained in the 2016 CSU Handbook was accurate at the date of publication: October 2015. The University reserves the right to vary the information at any time without notice.

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