

COURSE DELIVERY PLAN 2022

Bachelor of Biomedical Science

COURSE CODE: HBBS

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|---------------------|--|
| CAMPUS | St Albans (SA) |
| COLLEGE | College of Health and Biomedicine |
| STUDY MODE | Full Time or Part Time |
| DURATION | 3 years Full Time or Part Time equivalent |
| FEE TYPE | For information on course fees, refer to http://vu.edu.au/fees |
| APPLICATION METHOD | VTAC - https://vtac.edu.au Direct Application - https://gotovu.custhelp.com/app/landing |
| TIMETABLE | vu.edu.au/timetables |
| COURSE REQUIREMENTS | <p>To attain the Bachelor of Biomedical Science students will be required to complete 288 credit points consisting of:</p> <ul style="list-style-type: none">• 96 credit points of First Year Core studies;• 96 credit points of Major studies (from the list below): <p>Plus One (1) of the following:</p> <p>Option A:</p> <ul style="list-style-type: none">• 96 credit points of second Major studies; <p>OR</p> <p>Option B:</p> <ul style="list-style-type: none">• 96 credit points of Minor studies (Two Minor sets in total, from the list below): <p>Please Note: Students that select Option A must choose 12 credit points in place of HBM3202 Applied Biomedical Science, as this unit is covered in the first Major study. Students are able to select a unit from within any of the Minors offered in this course, in consultation with the Course Coordinator and according to unit pre-requisites.</p> |
| FURTHER INFORMATION | Unit and course information is available from the University course search site at http://vu.edu.au/course-search or go to https://askvu.vu.edu.au or Phone VUHQ on 03 9919 6100 |
| COURSE CHAIR | Anthony Zulli |
| COURSE ADVICE | ASKCUA |

Note: Students are required to enrol in all units for semester 1 and 2, and are not permitted to enrol in more than 48 credit points per semester as a full-time load.



VICTORIA UNIVERSITY

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Victoria University CRICOS Provider No. 00124K (Melbourne), 02475D (Sydney)

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Core/Elective Core (a unit that must be completed) & Elective (you have some choice in what you select).

Prerequisites A number of units within the degree have 'prerequisites'. These prerequisites must be met before enrolment in the unit is permitted. Generally these prerequisites require the successful completion of a unit or units taken at an earlier stage in the course. Students should pay particular attention to these prerequisite requirements as failure to meet these can seriously hinder progression through the course.

Date of Publication: This information is current at the publication date: 25/10/2021. It is provided as information only and does not form part of a contract between any person and Victoria University.

COURSE DELIVERY PLAN 2022

YEAR 1

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|--|-----------|-------------------------------------|---------------|----------|----------------|
| HBM1002 | Biological Systems | Core | 1B1, SB1 | 12 | SA | |
| RBM1100 | Functional Anatomy of the Trunk | Core | 1B1, 1B2, 1B3, 1B4 | 12 | SA | |
| RBM1518 | Human Physiology 1 | Core | 1B2, 1B3, WB1 1B3, 1B4 | 12 | FP SA | |
| RCS1601 | Chemistry 1A | Core | 1B2, 1B3, 1B4, 2B1 1B2, 1B3, 1B4 | 12 | FP SA | |
| RBM1200 | Functional Anatomy of the Limbs | Core | 2B1, 2B2, 2B3, 2B4 | 12 | SA | |
| HHH1001 | Mathematics and Statistics for Biomedicine | Core | 2B1, 2B3 | 12 | FP | |
| RBM1528 | Human Physiology 2 | Core | 1B4, 2B1, 2B2, 2B3, 2B4 2B2 | 12 | FP SA | RBM1518 |
| RCS1602 | Chemistry 1B | Core | 1B2, 2B1, 2B2, 2B3, 2B4 2B2, 2B4 | 12 | FP SA | RCS1601 |

YEAR 2

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|------------------|-----------|-----|---------------|--------|----------------|
| | Major 1 - Unit 1 | Major | | 12 | | |
| | Major 1 - Unit 2 | Major | | 12 | | |
| | Major 1 - Unit 3 | Major | | 12 | | |
| | Major 1 - Unit 4 | Major | | 12 | | |
| | Major 2 - Unit 1 | Major | | 12 | | |
| | Major 2 - Unit 2 | Major | | 12 | | |
| | Major 2 - Unit 3 | Major | | 12 | | |
| | Major 2 - Unit 4 | Major | | 12 | | |



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YEAR 3

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|--------------------------------------|-------------|-----|---------------|--------|----------------|
| | Major 1 - Unit 5 | Major | | 12 | | |
| | Major 1 - Unit 6 | Major | | 12 | | |
| | Major 2 - Unit 5 Or Minor 1 - Unit 1 | Major/Minor | | 12 | | |
| | Major 2 - Unit 6 Or Minor 1 - Unit 2 | Major/Minor | | 12 | | |
| | Major 1 - Unit 7 | Major | | 12 | | |
| | Major 1 - Unit 8 | Major | | 12 | | |
| | Major 2 - Unit 7 Or Minor 1 - Unit 3 | Major/Minor | | 12 | | |
| | Major 2 - Unit 8 Or Minor 1 - Unit 4 | Major/Minor | | 12 | | |

COURSE DELIVERY PLAN 2022

List of major/s available in this course

HMAHPH Human Physiology
HMAMCB Molecular Cell Biology

List of minor/s available in this course

HMIAPP Applied Research
HMIHPH Anatomy & Integrated Physiology
HMIMCB Molecular Cell Biology

MAJORS

Human Physiology HMAHPH

The Human Physiology major provides an integrated suite of units which builds upon the fundamentals of anatomy and physiology covered in the College core units. Specifically, students will learn about regional and rehabilitation anatomy, cardiorespiratory, renal and neuromuscular physiology and associated diseases. The relationships between gastrointestinal function, diet, nutrition, metabolism and human health will be covered, including examining the role of diet in chronic diseases and its importance in growth and development. In the final year, students will draw on their knowledge and apply their learning in different contexts in the two capstone units, Applied Biomedical Sciences and Integrative Physiology.

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|---|-----------|--------------------|---------------|--------|------------------------------------|
| Year 2 | | | | | | |
| HBM2103 | Digestion, Nutrition and Metabolism | Major | 1B2, 1B3, 1B4 | 12 | SA | RBM1528 or RBM1174 or HBM1202 |
| RBM2100 | Rehabilitation Anatomy | Major | 1B1, 1B2, 1B4 | 12 | SA | RBM1200 or AHE1101 and AHE2202 |
| RBM2200 | Functional Anatomy of the Head and Back | Major | 2B1, 2B2, 2B4 | 12 | SA | RBM1100, RBM1200 |
| RBM2800 | Cardiorespiratory and Renal Physiology | Major | 2B2, 2B4 | 12 | FP | RBM1528 |
| | | | 2B3 | | SA | |
| Year 3 | | | | | | |
| RBM3264 | Advanced Nerve and Muscle Physiology | Major | 1B1, 1B2, 1B3 | 12 | SA | RBM2800 |
| HBM3202 | Applied Biomedical Science | Major | 1B2, 1B4 | 12 | SA | RBM2133, HBM2106, RBM2200, RBM2800 |
| HBM3203 | Integrative Physiology | Major | 2B1, 2B4 | 12 | SA | RBM2800 |
| RBM3640 | Advanced Neurosciences | Major | 2B1, 2B2, 2B3, 2B4 | 12 | SA | RBM2100, RBM2540, RBM2800 |

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Molecular Cell Biology HMAMCB

The Molecular Cell Biology major builds on the knowledge of introductory cell function and molecular mechanisms, acquired from the first year core units. The suite of units offered in this major focuses on the investigation of the human body at the molecular and cellular levels, with emphasis on the molecular basis of disease. Understanding the molecular techniques utilized in molecular biomedicine will underpin this major. Students will develop both theoretical and laboratory skills essential for becoming successful professionals in both research and clinical based biomedical science.

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|------------------------------------|-----------|--------------------|---------------|--------|------------------------------------|
| RBM2560 | Medical Biochemistry | Major | 1B1, 1B2, 1B3, 1B4 | 12 | FP | RBM1528 or RBF1310 and RCS1602 |
| RBM2133 | Cell and Molecular Biology | Major | 1B2, 1B3, 1B4, WB1 | 12 | SA | RBM2560 and RBM1528 or RBF1310 |
| HBM2105 | Medical Microbiology and Immunity | Major | 2B1, 2B2, 2B3, 2B4 | 12 | SA | RBM1528 or RBF1310 |
| HBM2106 | Human Genetics | Major | 2B1, 2B2, 2B4 | 12 | SA | HBM1002, RBF1320 |
| Year 3 | | | | | | |
| HBM3202 | Applied Biomedical Science | Major | 1B2, 1B4 | 12 | SA | RBM2133, HBM2106, RBM2200, RBM2800 |
| RBM3720 | Immunology | Major | 1B1, 1B3 | 12 | SA | HBM2105 |
| HBM3204 | Biomolecular Mechanisms of Disease | Major | 2B1, 2B2 | 12 | SA | RBM2133, HBM2106 |
| RBM3800 | Pharmacology | Major | 2B3, 2B4 | 12 | SA | RBM2560, RBM2800 |

MINORS

Applied Research HMIAPP

This Minor provides the opportunity for students to focus on theoretical and practical skills essential for Biomedical Research. The importance of biomedical research in developing new treatments and understanding the underlying mechanisms of diseases underpins this minor. Following on from first year core units students will further develop their understanding of qualitative and quantitative research with an emphasis on critically reviewing scientific literature, statistical analysis and effective scientific communication.

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|--|-----------|--------------------|---------------|--------|---------------------------|
| HBM3101 | Research Methods | Minor | 1B2, 1B3, 1B4 | 12 | FP | RBM2800 |
| HBM3105 | Research Project | Minor | 2B1, 2B2, WB1 | 12 | SA | HBM3101 |
| HBM3106 | Reproductive and Developmental Biology | Minor | 1B1, 1B2, 1B3, 1B4 | 12 | SA | RBM2540, RBM2133, HBM2106 |
| | | | | | | SA |



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RBM3265 Exercise Biochemistry and Integrated Metabolism Minor 2B4 12 FP RBM2560

Anatomy & Integrated Physiology HMIHPH

The Anatomy & Integrative Physiology minor introduces the students to the gross anatomy of the head, neck and back and the application of anatomy in medicine will be highlighted in clinical scenarios. The integrative nature of the cardiovascular, renal, respiratory systems will be interrogated further, building on basic physiological principals covered in Human Physiology in Year 1. The relationship between gastrointestinal physiology, nutrition and human health is also covered. Upon completion of this minor students will have an understanding of the link between anatomy, physiology, nutrition, metabolism and health.

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|-----------|---|-----------|---------------|---------------|--------|--------------------------------|
| HBM2103 | Digestion, Nutrition and Metabolism | Minor | 1B2, 1B3, 1B4 | 12 | SA | RBM1528 or RBM1174 or HBM1202 |
| RBM2100 | Rehabilitation Anatomy | Minor | 1B1, 1B2, 1B4 | 12 | SA | RBM1200 or AHE1101 and AHE2202 |
| RBM2200 | Functional Anatomy of the Head and Back | Minor | 2B1, 2B2, 2B4 | 12 | SA | RBM1100, RBM1200 |
| RBM2800 | Cardiorespiratory and Renal Physiology | Minor | 2B2, 2B4 | 12 | FP | RBM1528 |
| | | | 2B3 | | SA | |

Molecular Cell Biology HMIMCB

The Molecular Cell Biology minor builds on the knowledge of introductory cell function and molecular mechanisms, acquired from the first year core units. The suite of units offered in this minor focuses on the investigation of the human body at the molecular and cellular levels. Key concepts in microbiology, human genetics and biochemistry will be taught and utilized to understand human disease at the molecular level.

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|-----------------------------------|-----------|--------------------|---------------|--------|--------------------------------|
| HBM2105 | Medical Microbiology and Immunity | Minor | 2B1, 2B2, 2B3, 2B4 | 12 | SA | RBM1528 or RBF1310 |
| HBM2106 | Human Genetics | Minor | 2B1, 2B2, 2B4 | 12 | SA | HBM1002, RBF1320 |
| RBM2133 | Cell and Molecular Biology | Minor | 1B2, 1B3, 1B4, WB1 | 12 | SA | RBM2560 and RBM1528 or RBF1310 |
| RBM2560 | Medical Biochemistry | Minor | 1B1, 1B2, 1B3, 1B4 | 12 | FP | RBM1528 or RBF1310 and RCS1602 |