



JAMES COOK
UNIVERSITY
AUSTRALIA

Celebrating
50
YEARS
1970 - 2020

Bachelor of Biomedical Sciences



Ready today for tomorrow

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Bachelor of Biomedical Sciences

- ✔ Gain a thorough grounding in health and healthcare in Australia, with an emphasis on biomedicine in the tropics. Use your degree as a pathway to other health professions or higher research.
- ✔ Study human biology, from molecular to whole-body systems, and understand how the body responds to disease. Choose from one of four specialised majors and learn research techniques and skills from world-class biomedical professionals.
- ✔ Be equipped with practical work skills in state-of-the-art laboratories, hospitals, and medical centres, both on and off campus. JCU Biomedical Sciences graduates have the knowledge, skills and competitive edge needed to succeed in their chosen fields.

You may also be interested in the [Bachelor of Medical Laboratory Science \(Honours\)](#) or the [Bachelor of Clinical Sciences \(Honours\)](#)

COURSE DETAILS:

Locations:	Townsville
Start Dates:	February
Duration:	3 years full-time Part-time available
ATAR:	65 English (Units 3/4,C), Mathematical Methods (Units 3/4,C), Chemistry (3/4,C)
OP:	16 English (4,SA), Maths B (4,SA), Chemistry (4,SA)

Please visit the [handbook](#) for a detailed outline of the course structure. Note: Information is for domestic students only

Majors

You can choose from four Biomedical Sciences Majors:

Medicinal and Pharmaceutical Sciences

Study and apply general principles of drug action, molecular genetics and cell biology. Build a comprehensive knowledge of medicinal and pharmaceutical chemistry. In your third year, you will consolidate and extend your knowledge and skills by completing a research project.

Microbiology and Immunology

Study and apply theories of microbiology and immunology, molecular genetics, cell biology, and advanced immunobiology. Extend your knowledge by understanding and analysing the theories of infectious diseases and tropical microbes. Choose from specified elective subjects to further develop your interests.

Molecular and Cell Biology

Study and apply quantitative methods in science, molecular genetics, and cell biology. Consolidate and extend your knowledge by studying the molecular basis of disease, bioengineering and bioinformatics. Choose from specified elective subjects to further develop your interests, including the option of completing an advanced research project.

Physiology and Pharmacology

Study and apply the theories of physiology and pharmacology, molecular genetics, cell biology and pathobiology, and choose from specified elective subjects. In your third year, you will consolidate and extend your knowledge and skills by designing and completing a research project. You will also



“JCU is great. I love all the staff. The lecturers are on your side, so they want you to excel and they want you to do well. They are very helpful and very friendly. The facilities are amazing. You get hands-on experience. We started doing work in the lab from first year.”

Mitchell Hearn

BACHELOR OF BIOMEDICAL SCIENCES

“What I love about the Bachelor of Biomedicine is that students get hands-on experience in state-of-the-art laboratories from their very first year of study. Our students learn practical, broadly applicable skills, allowing them to transition into a variety of exciting research and health professions, or continue their studies as higher degree research students. I did not have any of these practical skills when I graduated from university and it is exciting to be giving the students tools to prepare them for their next chapter, whatever that might be.”

Hilary Vanderven

LECTURER, IMMUNOLOGY/INFECTIOUS DISEASE



Career Opportunities

JCU Biomedical Sciences graduates are widely-skilled scientists who have the flexibility to be employed in a variety of industries.

Graduates pursue careers in various areas including laboratory support, public health, health promotion, media, education, law, or research.

You could find employment as a research assistant, laboratory technician, scientific journalist, teacher, or patent lawyer. You could also choose to further your studies with the Bachelor of Biomedical Sciences (Honours).

Biomedical Sciences graduates may use their skills as a grounding to pursue further studies in veterinary science or other medicine and health sciences degrees.

Graduates majoring in microbiology can apply for membership of the Australian Society of Microbiology.





JCU Accommodation

Study and live in some of the most interesting places in the world. Townsville is on the doorstep of the Great Barrier Reef, magnificent rainforests, the savannah region and Outback Australia.

Living on-campus is a great way to make the most of your time at JCU. With five different accommodation options at JCU Townsville, housing over 1,200 students, living on-campus is a great place to make new friends and immerse yourself into the JCU culture. All rooms at our on-campus residences are single board, with a single bed, study desk, chair, fan, air-conditioning and Wi-Fi. Each residence is different in regards to style of living, culture and atmosphere. There are options for fully catered or self-catered housing. Find out more at jcu.edu.au/accommodation



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