

School of Science and Engineering

Welcome to your UB

The School of Science and Engineering, situated at the university's Mt Helen, Ballarat campus is one of the oldest schools at the University. Highly qualified and dedicated staff support academic programs and research in the areas of earth, environmental, food, biomedical and technology sciences, with a reputation for excellence in its engineering streams.

The University of Ballarat recently signed a five year alliance with Xstrata Zinc. The aim of the alliance is to strengthen the link between industry and students studying earth sciences, enabling a total minerals industry education package to be offered.

Course guide

The School of Science and Engineering offers undergraduate courses in Bachelor of Applied Science (Geology, Metallurgy, Environmental Management, Food Science and Technology and Honours), plus Bachelor of Technology (Management) and Bachelor Engineering Science (Mining, Mechanical and Civil). As well as the undergraduate courses various post graduate courses are also available, including Masters of Engineering Systems/Technology (Mining, Mechanical and Civil), Graduate Diploma of Mining and Graduate Certificate/Graduate Diploma of Brewing.

We are the only University in Victoria to offer the Bachelor of Applied Science (Metallurgy). This is a vocationally oriented course that provides students with the knowledge and skills necessary to obtain employment as an extractive metallurgist and to be admitted as a member of AusIMM. The course also serves as a preparation for graduate studies in technology, business administration and other areas. Specifically, the course provides students with a core of basic analytical and communication skills, common to all branches of applied science, and then permits students to undertake in depth study of extractive metallurgy. In addition, students are equipped with a basic knowledge of the industrial and social environments in which they will function as extractive metallurgists.

New Courses

In 2008 the School will also offer two new courses; Bachelor of Biomedical Science and Bachelor of Science.

The Bachelor of Biomedical Science is a course developed in alliance with Deakin University. Graduates from this program will be able to pursue various options; including, but not limited to, seeking entry into graduate medical or dental health programs, research opportunities in biomedical science and Honours programs in microbiology, occupational health and safety, or health informatics.

The Bachelor of Science is a versatile degree that accommodates an enormous variety of student interests and career aspirations. The main focus of this course is to provide state-of-the-art foundation in modern scientific principles and theories with a stream of course units touching on all the major science disciplines.

All our courses are designed to give students a balanced blend of theoretical knowledge and practical understanding, producing graduates who are widely sought due to their wide range of skills in their chosen field.

Great Courses

- ← Bachelor of Engineering Science (Civil Engineering, Mechanical Engineering and Mining engineering)
- ← Bachelor of Applied Science (Environmental Management)
- ← Bachelor of Applied Science (Food Science and Technology)
- ← Bachelor of Applied Science (Food Science and Technology/Bachelor of Management)
- ← Bachelor of Applied Science (Geology)
- ← Bachelor of Applied Science (Metallurgy)
- ← Bachelor of Science
- ← Bachelor of Biomedical Science

Research

Staff and students are very active in the area of research. To compliment our researchers the School of Science and Engineering has the Centre for Environmental Management which has established programs in environmental teaching, research and consultancy over the past twenty years. The University's Arid Zone Field Station, Nanya is located approximately 140 km northwest of Mildura, close to the NSW/South Australia border.



VIOSH Australia has a global reputation for its innovative approach within the field of OHS management. A cross-disciplinary centre located in the School of Science and Engineering at the University of Ballarat, VIOSH is the Asia-Pacific Centre for Teaching and Research in Occupational Health and Safety, and is renowned as one of Australia's leaders in the field.

Scholarships

There are various scholarships on offer for students and researchers within the University of Ballarat. For more information on these please visit: http://www.ballarat.edu.au/ard/sci-eng/student_info/scholarships.shtml

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