

BSc Chemistry

This programme provides students with training in the different fields of chemistry such as inorganic, organic, analytic, physical, and polymer chemistry in one of the most dynamic and best equipped chemistry departments in the country. Take note of the three focal areas within which you have options in choosing your majors.

Focal areas	Major/s
Chemistry & Polymer Science	Chemistry and Applied Chemistry, Applied Mathematics, Computer Science, Mathematics, Microbiology or Physics
Chemical Biology	Chemistry & Biochemistry
Materials Technology	Chemistry & Applied Chemistry

Do I qualify?

Minimum admission requirements

- Average (excluding Life Orientation): **65%**
- English OR Afrikaans
(Home Language or First Additional Language): **50%**
- Maths: **70%**
- Physical Sciences: **50%** (both Chemistry & Physics)



Focal areas explained:

Chemistry and Polymer Science

Students are trained to become professional chemists and analytical chemists who have the chemistry-based technical background for a career in any industrial or other sector in which chemistry plays a role. You will gain a thorough knowledge of polymers as the basis of various materials, and of sophisticated synthetic and analytic techniques for polymers.

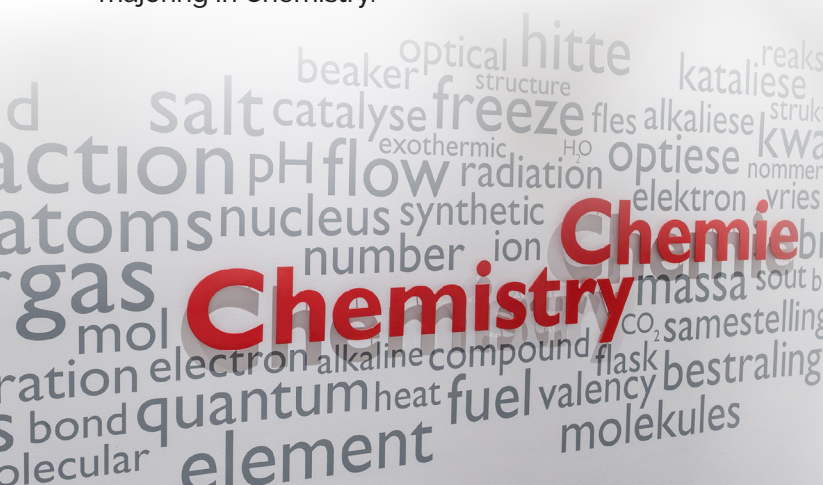
Materials Technology

The development and use of functional and smart materials is a fast-growing field and offers exciting careers for young scientists. This career-oriented focal area focuses on the manufacturing and application of polymeric materials

Chemical Biology

Students are trained to become scientists for a career in those sectors of the chemical industry involved in the more organic and biochemical aspects of chemistry (such as food production and medicinal chemistry). This focal area will also prepare you for postgraduate studies and a research career in Organic Chemistry and/or Biochemistry.

NB: You can also consider another programme in chemistry: the BSc (focal area Applied Medicinal Chemistry), majoring in Chemistry.



Why study BSc Chemistry?

- I want to develop research, problem-solving and analytical skills.
- I enjoy chemistry, mathematics and physics.
- I love the prospect of new discoveries and finding out how things work.
- I would like to focus on medicinal chemistry and drug development.
- I want to help solve global challenges like access to clean water, reduced dependency on fossil fuels, solutions to antimicrobial resistance, improved food security, environmental pollution, human health issues such as cancer, heart diseases, malaria and TB, sustainable lifestyle interventions etc.

Why study Chemistry at Stellenbosch University?

- The Department of Chemistry and Polymer Science is one of the top departments in this field in Africa – we have a strong research ethos and the largest research effort in polymer science in Africa.
- You can develop your skills and explore many options during the three years of study so that you do not limit yourself when finally deciding on a career path of choice.

What can I do with a BSc Chemistry degree?

Analytical chemist
Development chemist
Disaster management officer
Environmental consultant
Forensic chemist

Geochemist Product developer
Laboratory director
Nanotechnologist
Paint chemist
Physical sciences teacher

Product engineer
Quality assurance manager
Research scientist
Senior researcher

"It is a challenging, multidisciplinary course that focuses on the student's level of understanding rather than just absorbing and memorising information."

– undergraduate BSc student

Contact details

Department of Chemistry and Polymer Science

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Website:

<https://www0.sun.ac.za/chemistry/>

Contact our recruitment officer

Qaqamba Mhlauli

qmhlauli@sun.ac.za or science@sun.ac.za

Deadline for applications: 31 July

General selection and application criteria

<https://www.sun.ac.za/english/maties>