

## Undergraduate programme (BSc) in Chemistry

### 3 BSc streams

#### **Chemistry & Polymer Science**

*1<sup>st</sup> year:* Introductory Inorganic, Physical and Organic Chemistry, Physics, Mathematics

*2<sup>nd</sup> year:* Analytical Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry

*3<sup>rd</sup> year:* Analytical Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Polymer Science

#### **Materials Technology**

Similar programme, but with modules in Economics, Business Management and Materials Technology as well

#### **Chemical Biology**

Similar programme, but with modules in Biology, Microbiology and Biochemistry as well

### More information

Department of Chemistry & Polymer Science

Tel: (021) 808 3172

E-mail: [ec@sun.ac.za](mailto:ec@sun.ac.za)

[www0.sun.ac.za/chemistry](http://www0.sun.ac.za/chemistry)

### Admission requirements

- Write the National Benchmark Tests AQL and MAT
- Afrikaans or English (Home Language or First Additional Language) 50%
- Mathematics 70%
- Physical Sciences 50%
- Average final mark of 65% (excluding Life Orientation)

“CHEMISTRY  
HAS THE  
POTENTIAL TO  
CHANGE LIVES  
FOR THE  
BETTER ...”



@ChempolS



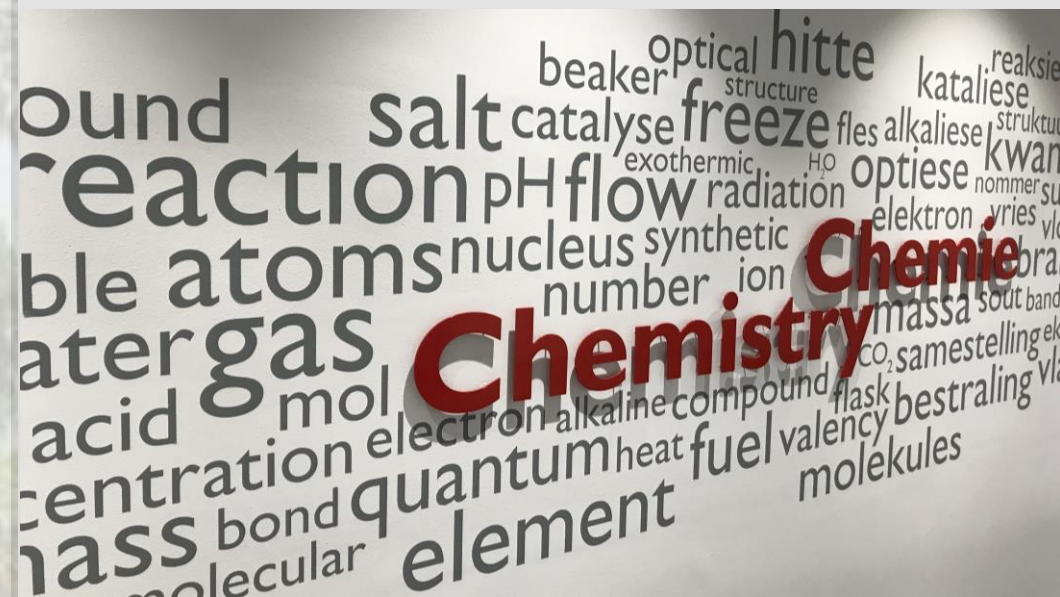
Department of Chemistry & Polymer Science

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## Information Brochure



## BSc in Chemistry & Polymer Science

**THE CENTRAL SCIENCE:** Chemistry is important to all the other fields of science, like biology, geology, astronomy, physics, medicine, engineering, materials science, and many others.

**Chemistry and Polymer Science** will give you options that are linked to Life Science, Material Science and Entrepreneurship, while providing a solid background in the Natural Sciences.

### An education for the future

Most technical innovations rely in some way or another on chemistry, whether it is the development of new drugs or the next generation batteries for electrical cars. With a chemistry degree from Stellenbosch University, you will be prepared to take on these challenges!

### Chemistry & Polymer Science @ Stellenbosch University

The Department of Chemistry and Polymer Science is one of the top departments in its field in Africa. You will be taught by some of the best chemists in the country, who will share their passion for chemistry with you.

### What can I do with a Chemistry Degree?

This degree is your key to a world of creativity and ingenuity. Career options include forensic science, healthcare, medical research, cosmetics, food science, agriculture, functional packaging and textiles, adhesives, paints and finishes, wastewater treatment, green chemistry – the list is endless ..... Chemists find themselves in management, product design or development, production, quality assurance and even sales of chemical products and equipment..

🎓 After a BSc you can continue your studies with BSc Honours (1 year), MSc (2 years) and PhD (3 years).

### Your BSc in a nutshell

There are three streams for the BSc in Chemistry. All three train you to be a chemist, while still accommodating your personal preference for Life Science, Entrepreneurship or Material Science.

**We look forward to welcoming you next year!**

### The right BSc for you

Do you recognize yourself in the following statements? Then a **BSc in Chemistry** is the degree for you!

- I want to solve global problems such access to clean water, dependency on fossil fuels, antibiotic resistance, food security, poverty alleviation, environmental pollution and human health issues including cancer, heart disease and TB.
- I want to develop research, problem-solving and analytical skills.
- I enjoy chemistry a lot and take a liking to maths and/or physics too.
- I love the prospect of new discoveries and finding out how things work.

### How has Chemistry influenced your life?

**Chemistry** is essential for meeting our basic needs of food, clothing, shelter, health, energy, and clean air, water, and soil. Scan the QR codes on the left to learn more.

### Global challenges, chemistry solutions...

“From food security and access to clean water to environmental pollution and human health” <https://www.rsc.org/news-events/features/2015/jan/global-challenges-chemistry-solutions/>

“What are the big problems for the next generation of chemists to work on?” <https://www.chemistryworld.com/features/chemistrys-grand-challenges/6500.article>

