



# FACULTY OF ENGINEERING

## DEPARTMENT OF CHEMICAL ENGINEERING BSC CHEMICAL ENGINEERING

### Introduction

The Vision of the Department of Chemical Engineering is to be regionally recognized as a leading Department of Chemical and Process Engineering, Food Science & Technology and Petroleum Studies, with a mission to produce competent, bold, articulate graduates, and to conduct relevant and innovative research and development for the advancement of the Caribbean region. The Department's mission is complementary to that of the Faculty of Engineering and of the UWI.

The Department aims to provide for local, regional and international students, high quality and professional education at undergraduate and graduate levels, through its teaching, research, and civil society engagement. This mandate is implemented throughout the Department's various disciplines in an attempt to produce highly motivated, civic-minded, entrepreneurial and innovative graduates.

### Overview

The BSc in Chemical Engineering is offered by the Chemical Engineering Unit, the original of three units in the Department of Chemical Engineering. The BSc in Chemical and Process Engineering aims to train and educate Chemical Engineering graduates on the route to professional engineering status by providing students with the foundational Science and Mathematics, core Engineering principles and design fundamentals involved in the safe, profitable and environmentally -- sound design, construction and operation of regional process industries.



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## Why Study Chemical Engineering at the UWI?

Chemical Engineering is all about changing raw materials into useful products you use every day in a safe and cost effective way. For example petrol, plastics and synthetic fibres such as polyester and nylon, all come from oil

Chemical Engineers understand how to alter the chemical or physical state of a substance, to create everything from face creams to fuels.

The BSc in Chemical and Process Engineering at UWI is an internationally accredited degree. Completing an accredited Chemical Engineering Degree will put you on the pathway to meeting the academic requirements for professional registration.

In addition we have a strong link with the local industry.

### Professional Organisations

The Association of Professional Engineers of Trinidad and Tobago (A.P.E.T.T.)  
Institution of Chemical Engineers (IChemE) in the UK



### Facilities

The Department of Chemical Engineering offers a variety of labs in several areas which include separations, process control, fluid flow, material science and environmental chemistry. A computer lab is also available to students.





## Programme Objective

The objective of our Chemical and Process Engineering Degree is to prepare students to enter careers in the regional process industries. The BSc in Chemical and Process Engineering is a nine-semester course internationally accredited by the Institution of Chemical Engineers.

For a detailed programme outline and course descriptions, download the Faculty of Engineering's Undergraduate Faculty Booklet at [www.sta.uwi.edu/faculty-booklet-archive](http://www.sta.uwi.edu/faculty-booklet-archive).

## Entry Requirements

A minimum total of 14 qualification points as calculated in Table 3.1 of the Faculty of Engineering's Undergraduate Faculty Booklet based on passes in Pure Mathematics, Physics and Chemistry at any combination of 'A' Level or CAPE (averaged over CAPE I and II) or N1 and N2, or PreSci 1 and PreSci 2

**OR**

A minimum GPA of 3.5 obtained in PreENG

**OR**

Any of the following Diplomas, based on merit: UTT National Engineering Technician Diploma (NETD) - Chemical Engineering - (GPA of 3.5 and above); BCC Associate Degree in Science - Chemistry, Mathematics, Physics - (GPA of 3.5 and above). COSTAATT Associate Degree - Chemistry, Physics - (GPA of 3.5 and above)

**OR**

Any other qualification that is considered by the Department, in addition to those listed above.

If requirements for your qualifications are not listed here, please email us at

[David.Janes@sta.uwi.edu](mailto:David.Janes@sta.uwi.edu) or  
[ChemEng.Group@sta.uwi.edu](mailto:ChemEng.Group@sta.uwi.edu)



## Where will your degree take you?

Chemical Process Engineers are involved in the design, modification and operation of processes to produce the things we rely on every day. Playing a crucial role, they are employed across a huge variety of sectors including:

- Chemicals and allied products
- Energy
- Water
- Food and drink
- Oil and gas
- Process plant and equipment
- Biotechnology
- Business and management
- Consultancy

To find out more visit the website

[www.whynotchemeng.com](http://www.whynotchemeng.com)

For all you need to know about careers in Chemical Engineering.



### For further information:

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W: <http://sta.uwi.edu/eng/chemical>

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