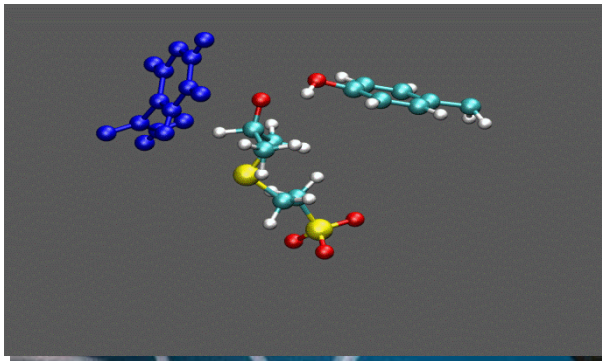
School of Chemical and BioEngineering

Orientation to Pre-Engineering Students

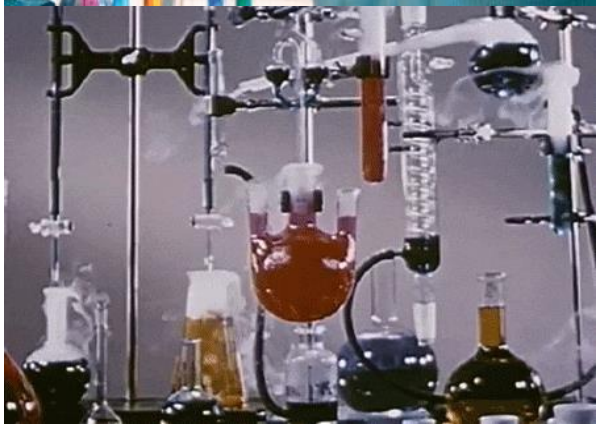
April 2022

History

- Chemical Engineering education at Addis Ababa University offered as part of **a Minor Program** within the then Department of Mechanical Engineering from 1981-1986.
- A full-fledged Chemical Engineering Department was launched with a program leading **to B.Sc. degree in 1986**.
- The department launched **MSC programs in 2002 and PhD programs in 2009**.
- The department has **grown into a School of Chemical and Bio Engineering** in 2012
- So far about **1500 Bsc and 750 MSc and 20 PhD** students graduated from the School

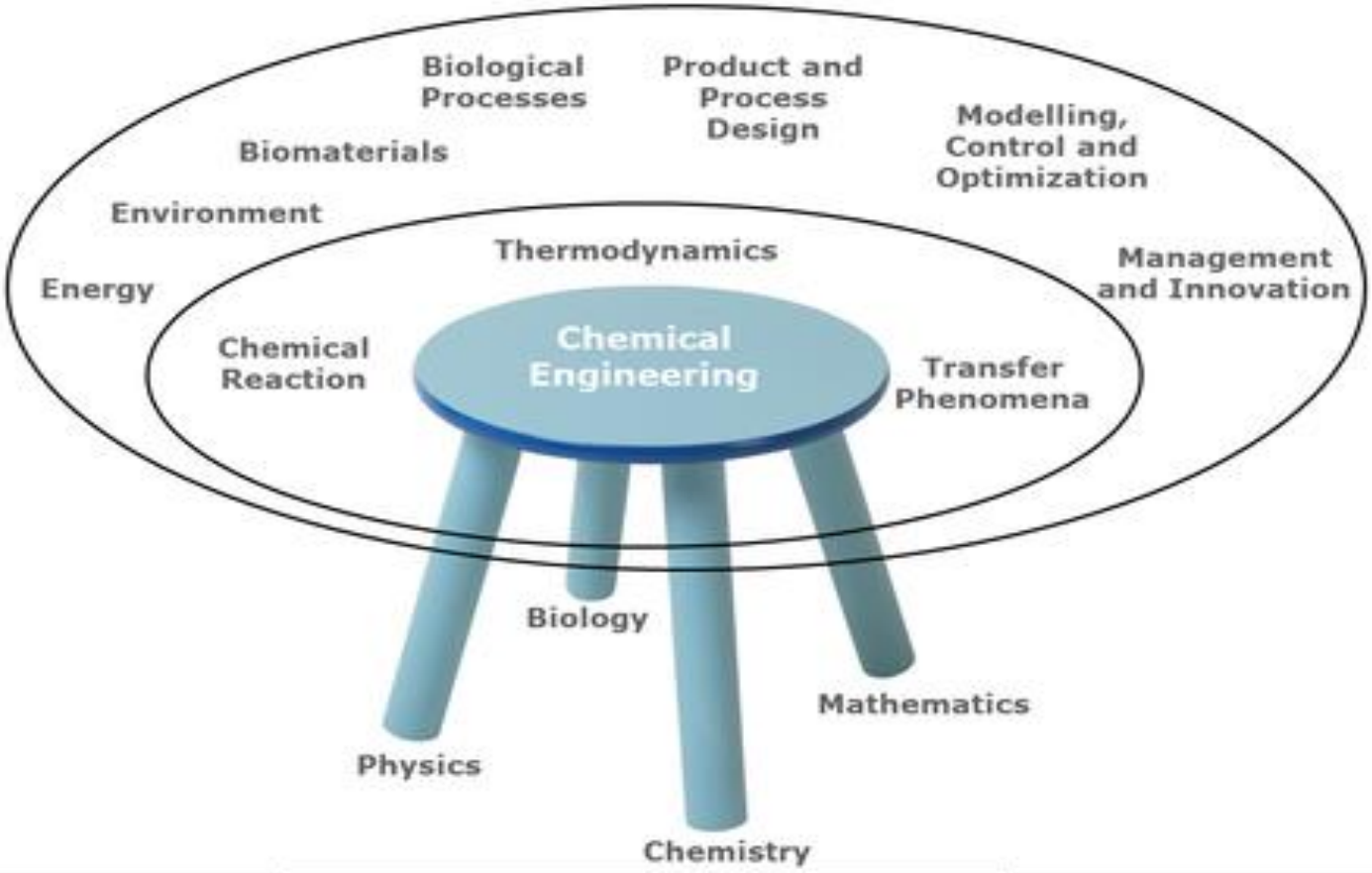






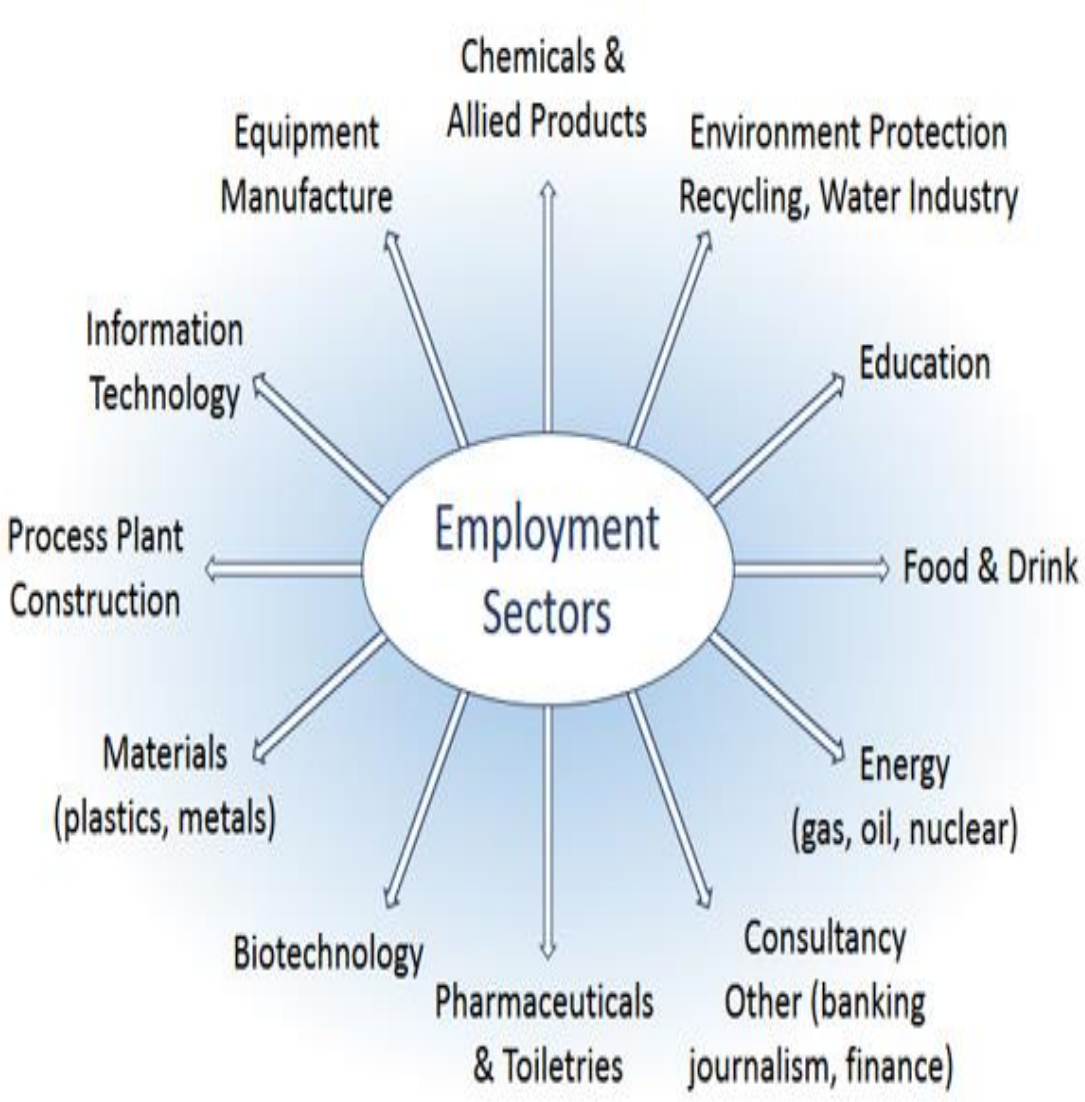
What is Chemical Engineering?

Chemical engineers apply the principles of **chemistry biology, mathematics and physics** to solve problems involving the production or use of chemicals and other products.



Professional Profile

- Chemical engineers work in **Chemical manufacturing, pharmaceuticals, healthcare, design and construction materials , pulp and paper, petrochemicals, food processing, specialty chemicals, polymers, biotechnology, and environmental health and safety industries**, among others.
- They **design equipment and processes** for large-scale manufacturing,.
- Chemical engineers also work in a variety of manufacturing industries other than **chemical manufacturing, such as those producing energy, electronics, food, clothing, and pap**er.



SCBE'S Resource (staff and Laboratory facility

Staff

Academic Rank	Number
Professor	3
Associate professor	9
Assistant Professor	11
Lecturer	44
Assistant Lecturer	2
Technical Assistant	12



Laboratories

- The School has laboratories for research and teaching on the following:

- ❑ Chemical reaction engineering
- ❑ Mineral and Construction input material laboratory
- ❑ Thermal unit operation
- ❑ Mass transfer unit operation
- ❑ Mechanical unit operation
- ❑ Environmental engineering
- ❑ Food engineering
- ❑ Analytical Laboratory
- ❑ Biochemical Laboratory





- Most of our course are integrated with laboratory work



International Partnership

- University of Cagliari, Canada
- Stellenbosch University , South Africa
- Hochschule für Technik und Wirtschaft (HTW) Berlin, Germany
- Case Western Reserve University, USA
- University of Toulouse, France.
- Cumhuriyet University, Turkey
- Deutsches Biomasseforschungszentrum (DBFZ, German Biomass Research Center), Germany
- STEMPower, USA
- Dow Chemical, USA
- China AID, China