



BUILT ENVIRONMENT



CIVIL ENGINEERING

The Department of Civil Engineering offers a four-year Bachelor of Science (Eng) in Civil Engineering. This degree is accredited by the Engineering Council of South Africa (ECSA) and recognised throughout the world in terms of the Washington Accord.

Students learn about the various civil engineering areas during lectures and have practical sessions in labs. These involve the investigation of the properties of various construction materials, soil behaviour and foundation design, behaviour of structural members under different loads, water quality and waste treatment.

The programme develops aspiring engineers with a challenging curriculum to equip them for the demands of this dynamic profession. There is a strong focus on urban planning and design, leading-edge construction materials technology, a centre for transportation studies, and an emphasis on sustainability, including re-planning cities with fewer roads, upgrading informal settlements and townships and recycling.

During vacations students are expected to do practical training involving both site work and design office experience.



FACT: The Katse Dam, a concrete arch dam on the Malibamat'so River in Lesotho, is Africa's second largest double-curvature arch dam.
Length: 710 m

A GOOD PASS in Mathematics and Physical Science is a prerequisite for admission to the degree. Admission will be based on both your school results and the National Benchmark Test results.

Career Opportunities

Civil engineers can specialise in any of the diverse aspects of their profession, such as project management, construction, transportation, urban engineering, water management, structural engineering, geotechnical engineering and material technology. A civil engineer commonly works in teams with colleagues from sectors such as environmental planning, architecture, community development and town planning.

Some civil engineers work on construction sites, but many UCT graduates will take up positions in design consultancies and government agencies. Hence a civil engineering career is full of variety.

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