Our Vision
To be a leading school for sustainable built environment.

Mission
To nurture students to be responsible leaders capable of realizing their maximum potential in their profession and community; to provide a collegiate environment for faculty to excel in education and research for sustainable development; and to advance knowledge for the practice of civil and environmental engineering and maritime professions.

Alumna Says
I am very proud to be a local ‘product’ of NTU after 10 years of study (Bachelor degree, Master degree and finally the Doctoral degree). I strongly believe that School of CEE has excellent professors, and in particular, my Doctoral degree (PhD) supervisor, Associate Professor Wong Yiik Diew. I still remember that he was known to be a responsible professor and his Final Year Projects (FYP) were very popular among the undergraduates. This inspired me to do my Master degree under his guidance. The Master degree had equipped me with excellent project management and data analysis skills which well-prepared me with a good head start as an engineer in Land Transport Authority (LTA). I was being awarded the LTA scholarship to do my PhD. Prof Wong has always been my inspiration, always so hardworking and caring.

Koh Puay Ping
Class of 2002
Bachelor of Engineering in Civil Engineering

Admission Criteria
In addition to the general admission requirements set by NTU, applicants need the following minimum subject requirements:

Applicants with GCE ‘A’ Level Certificate: H2 Level pass in Mathematics and H2 Level pass in Physics / Chemistry / Biology / Computing and H1 Level / ‘O’ Level pass in Physics for applicants who have not read Physics at H2/H1 Level.

Polytechnic Diploma holders: have to hold a relevant engineering diploma from local polytechnics. Relevant diplomas will be considered for direct entry into the second year, and may be exempted from selected courses. For the list of acceptable local diplomas, please refer to: http://admissions.ntu.edu.sg/UndergraduateAdmissions/Pages/PolyDiploma.aspx

International Baccalaureate Diploma Holders: Mathematics at Higher Level and Physics / Chemistry / Biology / Computer Science at Higher Level and Physics at Standard Level for applicants who have not read Physics at Higher Level.

NUS High School Diploma Holders: Major CAP of 2.0 in Mathematics and Major CAP of 2.0 in Physics / Chemistry / Biology (overall CAP of 2.0 in Physics is only applicable to applicants who have not majored in Physics).

International Students: Mathematics and Physics / Chemistry / Biology at Senior High School Level / IB Higher Level or Computer Science at IB Higher Level and Physics at Junior High School Level / IB Standard Level for applicants who have not read Physics at Senior High School Level / Higher Level.

For updated information on admission, please refer to http://admissions.ntu.edu.sg
ABOUT THE SCHOOL

The School of Civil and Environmental Engineering (CEE) was one of the three pioneering engineering schools when the university first started as Nanyang Technological Institute in 1982, offering the Bachelor of Engineering programme in Civil Engineering. The Bachelor of Engineering programme in Environmental Engineering first began in 2003. In 2004, a new undergraduate programme in Maritime Studies was inaugurated.

The undergraduate programmes offered by CEE include:
- Bachelor of Engineering in Civil Engineering
- Bachelor of Engineering in Civil Engineering with a Second Major in Business
- Bachelor of Engineering in Civil Engineering with a Second Major in Society & Urban Systems
- Bachelor of Engineering in Civil Engineering with a Second Major in Business and Specialization in International Trading
- Bachelor of Engineering in Environmental Engineering
- Bachelor of Engineering in Environmental Engineering with a Second Major in Business
- Bachelor of Engineering in Environmental Engineering with a Second Major in Society & Urban Systems
- Bachelor of Engineering in Environmental Engineering with a Second Major in Business and Specialization in International Trading
- Bachelor of Science in Maritime Studies and Specialization in International Trading
- Bachelor of Science in Maritime Studies and Specialization in Business
- Bachelor of Science in Maritime Studies with a Second Major in Business and Specialization in International Trading
- Bachelor of Science in Maritime Studies with a Second Major in Business
- Bachelor of Science in Maritime Studies with a Second Major in Business and Specialization in International Trading
- Double Degree in Bachelor of Engineering (Civil Engineering) and Bachelor of Arts (Economics)
- Double Degree in Bachelor of Engineering (Environmental Engineering) and Bachelor of Arts (Economics)

We provide a number of practice-oriented courses to prepare you for a challenging career ahead. Our courses are designed to provide the requisite breadth and depth so that you are able to pursue a career in planning, design and construction of civil, environmental, maritime projects and systems, as well as in research and development. Lectures and tutorials complemented by laboratory sessions, design projects, practical training, industrial visits and seminars will equip you with the principles and practical aspects of your areas of study. Soft skills courses are incorporated to provide you with a holistic education that spurs you to a successful career. You can also look forward to collaborations with prestigious overseas universities, government agencies and private organizations.

We nurture and educate professional civil and environmental engineers as well as carry out research in important civil and environmental engineering fields.

The School’s research focus and strength are as follows:

(1) Environmental and Water Resources Engineering
- Integrated Urban Storm-water Management
- Sediment Transport and Coastal Management
- Waste Minimization, Recycling & Resources Recovery
- Membrane Technology
- Biotechnology in Wastewater Treatment
- Environmental Chemistry
- Air Quality

(2) Infrastructure Systems and Maritime Studies
- Transport Modeling and Traffic Management
- Risk and Project Finance for Infrastructure Projects
- Information Technology on Construction Management
- Land Reclamation
- Underground Space Development
- Topical Skills in Hydrology
- Maritime Logistics and Port Economics

(3) Structures and Mechanics
- Computational Mechanics
- Dynamics and Seismic Engineering
- Protective Technology
- Fire and Building Engineering
- Offshore Engineering
- Structural Health Monitoring and Damage Prognosis
- Structural Steel and Concrete
- Sustainable Construction Materials

WHAT CIVIL ENGINEERS AND ENVIRONMENTAL ENGINEERS DO TODAY?

Upon graduation, you are able to be involved in various engineering fields and environments. As a civil/environmental engineer, you build the world’s infrastructure. You erect structures, both modest and magnificent; bring fresh water to the masses, dispose or recycle the wastes they generate; and move people and goods safely and efficiently from one location to another. In the near millennium, environmental engineers will be challenged to find the best solutions to the most pressing problems of society and there will be many opportunities to apply sophisticated technologies to meet social needs in an environmentally sustainable way. You can look forward to a wide range of career prospects in fields such as infrastructure planning and development, transportation, environmental, public works, urban development, waste treatment and resource recovery.

CIVIL ENGINEERING PROGRAMME

The Civil Engineering programme is structured on a flexible and diverse system that allows you to choose from a broad range of courses to receive a well-rounded education while maintaining high academic standards. Students take common engineering courses which deal with basic concepts in engineering and civil engineering discipline and general education courses (core and unrestricted).

During the course of study, students can register for industrial training in a private company or government agencies, where they can practice civil engineering under the guidance of experienced engineers and managers. In the final year, the programme concentrates on preparing students in professional civil engineering practice as well as managerial and entrepreneurial skills. Students are also required to complete a two-semester duration final year project in any of the specializations in civil engineering.

ENVIRONMENTAL ENGINEERING PROGRAMME

The Environmental Engineering programme is centered on a comprehensive curriculum with the aim of giving students a well-rounded education. Students take common engineering courses including basic concepts in mathematics, science and fundamental engineering principles, as well as core courses in the environmental engineering discipline and civil engineering discipline.

During the course of study, students can register for industrial training in a private company or government agencies, where they can practice environmental engineering under the guidance of experienced engineers and managers. In the final year, the programme concentrates on preparing students in professional environmental engineering practice as well as managerial and entrepreneurial skills. Students are also required to complete a two-semester duration final year project in any of the specializations in environmental engineering.