Where Your Choices Can Take You

In CDE's interdisciplinary learning environment, the possibilities are limitless.

Materials Science and Engineering

Materials engineers design, develop, and enhance materials to solve challenges in technology, sustainability, and everyday life, enabling advancements across industries.

Environmental and Sustainability Engineering

Environmental and sustainable engineers draw from the science of biology, chemistry, ecology, and hydrology, to devise sustainable solutions to improve our quality of life, while maintaining a clean and healthy environment.

Architecture

Architects plan the future as well as design places for purpose and inspiration.

Landscape Architecture

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Landscape architects plan, design, and manage outdoor spaces such as parks, gardens, waterfronts, and urban plazas to create functional, sustainable, and aesthetically pleasing environments.

Civil Engineering

Civil engineers plan, design, construct, maintain, and operate a liveable city while ensuring human safety, climate resilience, and environmental sustainability.

Infrastructure and Project Management

Project managers apply their knowledge in the areas of engineering, management, and law to manage a variety of construction and infrastructure projects and systems in the built environment and other sectors.

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Computer Engineering

Computer engineers design and build computing systems at all scales, from microcircuits to large-scale intelligent systems. They innovate in energy-efficient devices, advanced communication networks, and smart technologies, driving the digital transformation across industries globally.

Electrical Engineering

Electrical engineers are innovators and problem solvers who design and optimise systems powering modern technology. Their expertise advances communication networks, Al solutions, energy systems, and medical technologies, driving progress across industries like electronics, aerospace, and robotics.

Robotics and Machine Intelligence

Robotics engineers design and build robots and automated systems for applications across many industries, including defence, manufacturing, logistics, healthcare, and consumer electronics.

Engineering Science

Engineering scientists use mathematics and science to create practical solutions for complex problems that involve multiple areas of engineering.

Mechanical Engineering

Mechanical engineers use the principles of motion, force and energy to design, develop and manufacture mechanical devices and thermal systems, creating technologies that meet human needs.

Industrial and Systems Engineering

Industrial and systems engineers solve problems in multiple domains, backed by scientific approaches in data analytics, systems modelling, decision-making and management.

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Biomedical Engineering

Biomedical engineers design innovative solutions to improve patients' lives and elevate the quality of care.

Chemical Engineering

Chemical engineers transform molecules and materials from nature, including living matter, into a wide range of products that shape our modern lives, from medicines and cosmetics products to fuels and computer chips.

Industrial Design

Industrial designers create new products, services, spaces, apps, experiences, and businesses that people need and love.



CDE is Globally Recognised

NUS emerged **eighth** in the latest UK-based **Quacquarelli Symonds (QS) World University Rankings 2024**.

NUS is the **highest-ranked Asian university** and the **first from Asia** to place among the top 10 institutions in the world. That's not all — CDE also shines in the subject-specific rankings.



The CDE Edge

When you pursue a four-year direct Honours degree at CDE, you gain breadth, depth and flexibility through a combination of the **common curriculum**; a **major** of your choice; and a wide range of **unrestricted electives**.





Building Your CDE Degree

What does an education at CDE entail?

An education at CDE will be an exciting, interdisciplinary experience for students where their learning journey takes centre stage. We are equipping students with an adaptable toolbox of skills across disciplines, moving them beyond a knowledge-based education to a mindset-based approach to problemsolving. The CDE common curriculum provides a broad intellectual foundation on which you can continuously upgrade, evolve and re-pivot in a fast-changing world. Our Majors build on top of the common curriculum to allow you to explore your chosen field, and our unrestricted elective space gives you the freedom to customise your educational experience.

What is Build Your Own Degree? How do **Unrestricted Electives work?**

Each of our undergraduate degrees is a fouryear direct honours degree and you need an equivalent of 40 courses to graduate. Your major is your primary area of study, comprising 15 courses. The Common Curriculum accounts for another 15 courses. This leaves 10 courses in the Unrestricted Electives (UE) space that you can use to decide how broad, deep or integrated you want your education to be. You can choose what you want to take from anywhere at NUS. Second majors (10 courses) and minors (5 courses) allow you to broaden your knowledge and skills in a complementary or contrasting area. A specialisation (5 courses) is a focus area within your chosen discipline. Alternatively, you can choose from over 4000 courses available across NUS as electives based on your interest.

Planning Your CDE Journey

What courses do we need to take each year in CDE? Is there a curriculum schedule assigned to students? Some courses under the Common

Curriculum will be pre-allocated to students. Each programme also has a recommended curriculum schedule that students can use to plan the courses they need to take each semester. You may then ballot for the courses you want during the course registration exercise before each semester. The recommended schedule is available on each department's website.

What are the other opportunities available to CDE students?

CDE and the wider NUS community offer a wide range of global opportunities and special programmes to enhance your learning experience such as the NUS Overseas Colleges, Residential Programmes, Student Exchange Programme and Summer/Winter Schools. Those interested in NUS College will be pleased to know it is compatible with all CDE degree programmes. Beyond academics, we have a vibrant College life and offer a wide range of activities from wellness workshops to cooking lessons. With NUS' huge range of clubs and societies there is never a problem with finding your niche!

Key Activities During The Academic Year

June

Orientation the beginning of the freshmen's journey with an enriching lineup of social



May

End of Sem 2 (After exams)



Start of Sem 2 **CDE Dav**

Start of Sem 1

July

Freshman Welcome and being a part of NUS CDE



August

Star Awards (individuals or groups) for their passion, talent,

September

Career Fair

Platform for students to engage key employers with exciting career opportunities.



Student Life Events

October Sem 1

Community Day