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 Mathematical models
 arise in a wide variety of
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 mathematics as well as in
 areas of science where
 computing plays a central
 and essential role, and
 emphasizes algorithms,
 numerical methods, and
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The Computational Science, Engineering, and Mathematics (CSEM) graduate program is an interdisciplinary program leading to the PhD degree that prepares students for the field of computational and mathematical modeling.

Computational Mathematics | Department of Mathematics

The computational mathematics research of our faculty has applications in data analysis and signal processing, fluid and solid mechanics, electronic structure theory, biological networks, and many other topics.

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Computational mathematics - Wikipedia

Computational mathematics involves mathematical research in mathematics as well as in areas of science where computing plays a central and essential role, and emphasizes algorithms, numerical methods, and symbolic computations. Computational applied mathematics consists roughly of using mathematics for allowing and improving computer computation in applied mathematics.

Computational mathematics may also refer to the use of computers for mathematics itself. This includes the use of ...

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Calculus, linear algebra, and differential equations are fundamental, but lots of other mathematics comes into play.

Dynamical systems theory is widely used; also Fourier analysis. In fact almost any branch of math could show up. The "Tensor ne...

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The Journal of Computational and Applied Mathematics publishes original papers of high scientific value in all areas of computational and applied mathematics. The main interest of the Journal is in papers that describe and analyze new

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Today it is one of the largest departments in NUS, with about 60 faculty members and teaching staff. The history of the Department of Mathematics at NUS traces back to 1929, when science education began in Singapore with the

opening of Raffles College with three students enrolled in Mathematics.

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Development and analysis of algorithms for use in all areas of applied mathematics, science and engineering. These areas include medical imaging, atmospheric modeling, fluid dynamics, and social and biological systems modeling.

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Mathematical models arise in a wide variety of fields, including weather forecasting, engineering, business and finance, science, and medicine.

The application of computer methods to simulate such models has revolutionized these fields and is one of the most significant achievements of the computer age.