

MATH1005H:- APPLIED CALCULUS

- **Instructor:** Dr Xiaorang Li
- This course is offered during **both** the Fall **and** Winter semesters.
- **Who needs MATH1005H :**
All degrees in Computing Systems, and specialisations in Computer Science or Software Engineering require **either** 1005H **OR** 1100/1101
- **Programs that recommend MATH1005H for the BSc math credit:**
Chemistry: Single or joint major honours
Biology: single or joint major honours in Biology
- **For whom MATH1005H is recommended:** Those of you who don't want to take more than one credit in MATH, and want some overview of calculus, but not a whole credit of calculus.
Those of you who would like to take 1100/1101, but think you don't have the right mathematics background.
- **Pre-requisites/co-requisites:** A grade 12U math course or its equivalent.
- **NOTE:** MATH1005H does **NOT** count as a MATH credit towards any mathematics major or minor.
- **Curriculum:** Basic algebra and equation solving. Functions. Continuity. Polynomial, exponential and logarithmic functions. Differentiation. Integration. Curve sketching and optimization. Functions of several variables.
- **Instruction method:** Three lectures weekly and one seminar weekly.
- **Marking scheme:**
Four assignments, worth 30%
Nine tests, worth 25%
One midterm, worth 15 %
One final, worth 30%