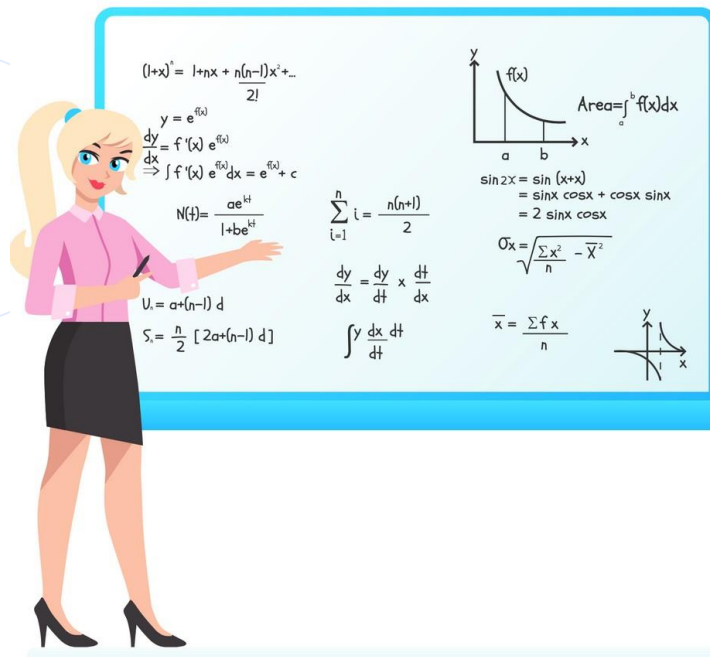


My Maths Cloud

Pre-Course Textbooks & YouTube Channels



Pre-Course Summer Textbooks & YouTube Channels:

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1 Textbooks

1.1 General

- How To Study For A Maths Degree, Alcock
- How To Study As A Mathematics Major, Alcock
- How To Think Like A Mathematician, Houston
- Bridging The Gap to University Mathematics, Gould & Hurst
- The Foundations Of Mathematics, Stewart
- Handbook of Mathematics, Bronshtein
- Prelude To Mathematics, Sawyer
- Intro to Mathematics, Alcock
- Mathematics Rebooted, Alcock
- Professor Povey's Perplexing Problems, Povey
- Bridge to Abstract Mathematics, Morash
- A Concise Introduction to Pure Mathematics, Liebeck

Note: Get a copy of Oxford Concise Dictionary Of Mathematics. It will help you in your course!

1.2 Proof

- How To Read And Do Proofs, Solow
- How To Solve it, Polya
- How To Prove it, Velleman
- Thinking Mathematically, Mason
- Proof Patterns, Joshi
- Book Of Proof, Hammock
- Discrete Mathematics, Reasoning and Proof with Puzzles Patterns and Games, Ensley & Crawley
- Proofs and Fundamentals, A First Course In Abstract Mathematics, Bloch
- Reading, Writing and Proving, Daepp & Gorkin
- A Logical Introduction to Proof, Cunningham
- The Nuts and Bolts of Proofs, Cupillari
- Writing Proofs in Analysis, Kane
- Mathematical Proofs, Chartran

1.3 Analysis

I recommend reading any proof technique before starting this course. The best include:

- How To Read And Do Proofs, Solow
- How to Solve it, Polya
- How to Prove it, Velleman
- Thinking Mathematically, Mason
- How to think about Analysis, Alcock

1.4 Algebra

- The Manga Guide to Linear Algebra, Takahashi
This is a fun introduction to Linear Algebra!
- Linear Algebra Demystified
If you're a beginner and want to go from scratch, this is a great book

1.5 Calculus

- The Cartoon Guide to Calculus, Larry Gonick
- The Manga Guide To Calculus, Kojimi
- Elements of Calculus, Granville
- Calculus Made Easy, Thompson
- The Calculus Life Saver, Banner

2 You-Tube Channels

2.1 School Level

These are great if you want to recap any of your maths knowledge from school.

- Eddie Woo
<https://www.youtube.com/user/misterwootube>
- Patrick JMT
<https://www.youtube.com/user/patrickJMT>
- Nancypi
<https://www.youtube.com/channel/UCRGXV1QlxZ8aucmE45tRx8w>
- Krista King
<https://www.youtube.com/user/TheIntegralCALC>
- Chris Tisdell
<https://www.youtube.com/user/DrChrisTisdell>
- Professor Dave
<https://www.youtube.com/watch?v=JbhBdOfMEPs&list=PLybg94GvOJ9FoGQeUMFZ4SWZsr30iIUYK>

2.2 University Intuition

- 3Blue1Brown Undergrad
https://www.youtube.com/channel/UCYO_jab_esuFRV4b17AJtAw
This is great for conceptual understanding
- TheMathSorcerer
<https://www.youtube.com/user/themathsorcerer>
- Blackpenredpen
<https://www.youtube.com/user/blackpenredpen>
This guy is awesome and so motivating. Check out his 100 derivatives and 100 series videos 😊
- MathTheBeautiful
<https://www.youtube.com/channel/UCr22xikWUK2yUW4YxOKXclQ>
- Mind Your Decisions
<https://www.youtube.com/user/MindYourDecisions>
- Mathologer
https://www.youtube.com/channel/UC1_uAIS3r8Vu6JjXWvastJg
- Insights into Mathematics
<https://www.youtube.com/user/njwildberger>
- Vihart
https://www.youtube.com/user/Vihart?fbclid=IwAR1Jw0ZpultuGv9_WXy1CpezpBxQukH3BIJgWaWkAESrVtcEGuSAj8W4Xyk