

# Sample Study Plan for MATH

## Option with PA w/o FYP OR Option with PA & FYP

### Plan your studies

#### YEAR TWO

S1: Calculus III, Probability,  
Real Analysis I, CC0006,  
ML0004, BDE1  
S2: Statistics I, Ordinary  
Differential Equations,  
Topology and Manifolds,  
Introduction to DSAI,  
CC0007, BDE2

#### YEAR ONE

S1: Calculus I, Linear Algebra  
I, Foundations of  
Mathematics, Introduction  
to Computational Thinking,  
CC0002, CC0003  
S2: Calculus II, Linear  
Algebra II, Discrete  
Mathematics, Algorithms  
and Computing, CC0001,  
CC0005

#### SPECIAL TERM

*Professional Attachment*

04

#### YEAR FOUR

S1: MPE6, MPE7, MPE8,  
S2: MPE9, BDE6.  
*Final Year Project*

#### Specialisation:

- Computational Mathematics and Modelling
- Cryptography and Cybersecurity
- Data Analytics and Statistical Learning
- Financial Technology with Quantitative Analysis
- Pure Mathematics

#### YEAR THREE

S1: Communication Across  
the Sciences, MPE1, MPE2  
MPE3, BDE3  
S2: MPE4, MPE5, BDE4, BDE5

*Exchange Immersion*

02

03

01

# Sample Study Plan for MATH

## Option with PI w/o FYP OR Option with PI & FYP

### Plan your studies

#### YEAR TWO

S1: Calculus III, Probability, Real Analysis I, CC0006, ML0004, BDE1  
S2: Statistics I, Ordinary Differential Equations, Topology and Manifolds, Introduction to DSAI, CC0007, BDE2

#### YEAR ONE

S1: Calculus I, Linear Algebra I, Foundations of Mathematics, Introduction to Computational Thinking, CC0002, CC0003  
S2: Calculus II, Linear Algebra II, Discrete Mathematics, Algorithms and Computing, CC0001, CC0005

01

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#### YEAR FOUR

S1: Professional Internship  
S2: MPE6, MPE7, BDE6.  
*Final Year Project*

#### YEAR THREE

S1: Communication Across the Sciences, MPE1, MPE2, MPE3, BDE3  
S2: MPE4, MPE5, BDE4, BDE5  
*Exchange Immersion*

#### Specialisation:

- Computational Mathematics and Modelling
- Cryptography and Cybersecurity
- Data Analytics and Statistical Learning
- Financial Technology with Quantitative Analysis
- Pure Mathematics