1. You are advised to read the instructions to courses registration posted in STARS. Please refer to STARS for the schedule of registration.

2. Students are only allowed to register for courses up to their **Normal Load** during their scheduled course registration day (during **both** their scheduled timeslot and between 5pm to 10pm on the same day). To register more than Normal Load, students would only be able to do so during the Add/Drop period. Please refer to the table below for the normal and maximum load requirement for your year of study.

Programme	Study Years	Normal Load	Maximum Load	Remarks
MATH	All years	20	20	Maximum load includes 3AU of auto-overload
MADA, MAEN, MASN	All years	22	22	

Note: Normal Load includes AU of ICC courses.

3. Year 1 (matric U24) will be pre-registered for Core and ICC courses as per standard study plan. Year 1 students admitted to MAFI upon admission in AY24 will be allowed Maximum Load of 22AU including BU5201 Business Finance.

4. Year 2 (matric U23) will be system-allocated with CC0007 **after** the main registration period.

5. If you wish to read a course that will exceed your maximum load, you can apply online through this link: https://raspberry.spms.ntu.edu.sg/overload/apply/default.aspx. Please note that approval is granted to a specific course that you wish to overload.

   Overload Applications: 09 Dec 2024 to 19 Jan 2025

6. The following courses are to be read during Semester 2 AY 2024/2025 (subject to pre-requisites).

7. Please refer to following URL for the most updated ICC Core requirements and programme requirements:
   https://www.ntu.edu.sg/spms/admissions/undergrad/core-courses
   https://www.ntu.edu.sg/spms/about-us/mathematics/undergrad/degree-programmes

MATH Year 1 (U24)			
Course Code	**Course Title**	**Course Type**	**Course AU**
MH1101	Calculus II	Core	4
MH1201	Linear Algebra II	Core	4
MH1301	Discrete Mathematics	Core	3
MH1403	Algorithms & Computing	Core	3
CC0001	Inquiry and Communication in an Interdisciplinary World	ICC Core	2
CC0005	Healthy Living and Wellbeing	ICC Core	3
BU5201 (MAFI only)	Business Finance	BDE	3

MATH – Applied Mathematics Year 2 (U23)

Course Code	Course Title	Course Type	Course AU
MH3100	Real Analysis I	Core	4
MH3110	Ordinary Differential Equations	Core	4
CC0007	Science & Technology for Humanity	ICC-Core	3
PS0002	Introduction to Data Science and Artificial Intelligence	ICC-Core	3
MH3701	Basic Optimization	Core	4

MATH – Pure Mathematics Year 2 (U23)

Course Code	Course Title	Course Type	Course AU
MH3100	Real Analysis I	Core	4
MH3110	Ordinary Differential Equations	Core	4
CC0007	Science & Technology for Humanity	ICC-Core	3
PS0002	Introduction to Data Science and Artificial Intelligence	ICC-Core	3
MH2220	Algebra I	Core	3

MATH – Statistics Year 2 (U23)

Course Code	Course Title	Course Type	Course AU
MH3100	Real Analysis I	Core	4
MH3110	Ordinary Differential Equations	Core	4
CC0007	Science & Technology for Humanity	ICC-Core	3
PS0002	Introduction to Data Science and Artificial Intelligence	ICC-Core	3
MH3500	Statistics	Core	4

MATH – Business Analytics Year 2 (U23)

Course Code	Course Title	Course Type	Course AU
CC0007	Science & Technology for Humanity	ICC-Core	3
PS0002	Introduction to Data Science and Artificial Intelligence	ICC-Core	3
MH3500	Statistics	Core	4
MH3511	Data Analysis with Computer	Core	3

MATH – Applied Mathematics Year 3 (U22)

Course Code	Course Title	Course Type	Course AU
MH3700	Numerical Analysis I	Core	3

MATH – Year 3 (U20 and before)				
Course Code	Course Title	Course Type	Course AU	Track
MH3400	Algorithms for the Real World	Core	4	BA
MH3600	Topology and Manifolds	Core	4	PMAS
MH3700	Numerical Analysis I	Core	3	AMAS
MH3701	Basic Optimization	Core	4	AMAS
MH3500	Statistics	Core	4	STAT, BA
MH3511	Data Analysis with Computer	Core	3	STAT, BA

MATH – Applied Mathematics Major PE				
Course Code	Course Title	Course Type	Course AU	Remarks
MH2220	Algebra I	Major-PE	3	**ICC intakes only**
MH3400	Algorithms for the Real World	Major PE	4	Non-ICC – List A3
MH3600	Topology and Manifolds	Major PE	4	**ICC intakes only**
MH4110	Partial Differential Equations	Major PE	4	Non-ICC – List A1
MH4514	Financial Mathematics	Major PE	4	Non-ICC – List A3
MH4520	High Dimensional Probability	Major PE	4	
MH4522	Spatial Data Science	Major PE	4	
MH4900	Final Year Project	Major PE	8	Non-ICC – List A5
MH4920	Supervised Independent Study I	Major PE	4	Not applicable - U24 onwards
MH4921	Supervised Independent Study II	Major PE	4	Not applicable - U24 onwards

MATH – Pure Mathematics Major PE				
Course Code	Course Title	Course Type	Course AU	Remarks
MH3400	Algorithms for the Real World	Major PE	4	Non-ICC – List P3
MH3600	Topology and Manifolds	Major PE	4	**ICC intakes only**
MH4520	High Dimensional Probability	Major PE	4	
MH4522	Spatial Data Science	Major PE	4	
MH4100	Real Analysis II	Major PE	4	Non-ICC – List P1
MH4600	Algebraic Topology	Major PE	4	Non-ICC – List P1
MH4900	Final Year Project	Major PE	8	Non-ICC – List P4
MH4920	Supervised Independent Study I	Major PE	4	Not applicable - U24 onwards
MH4921	Supervised Independent Study II	Major PE	4	Not applicable - U24 onwards

MATH - Statistics Major PE				
Course Code	**Course Title**	**Course Type**	**Course AU**	**Remarks**
MH2220	Algebra I	Major-PE	3	**ICC intakes only**
MH3400	Algorithms for the Real World	Major PE	4	Non-ICC – List S2
MH3511	Data Analysis with Computer	Major PE	3	**ICC intakes only**
MH3701	Basic Optimization	Major PE	4	Non-ICC – List S2
MH4500	Time Series Analysis	Major PE	4	Non-ICC – List S1
MH4501	Multivariate Analysis	Major PE	4	Non-ICC – List S1
MH4514	Financial Mathematics	Major PE	4	Non-ICC – List S2
MH4520	High Dimensional Probability	Major PE	4	
MH4522	Spatial Data Science	Major PE	4	
MH4900	Final Year Project	Major PE	8	Non-ICC – List S3
MH4920	Supervised Independent Study I	Major PE	4	Not applicable - U24 onwards
MH4921	Supervised Independent Study II	Major PE	4	Not applicable - U24 onwards

MATH – Business Analytics Major PE				
Course Code	**Course Title**	**Course Type**	**Course AU**	**Remarks**
MH3110	Ordinary Differential Equations	Major PE	4	**ICC intakes only** – List B2
MH3400	Algorithms for the Real World	Major PE	4	**ICC intakes only** – List B2
MH3700	Numerical Analysis I	Major PE	4	Non-ICC – List B3 ICC – List B2
MH3701	Basic Optimization	Major PE	4	Non-ICC – List B3 ICC – List B2
MH4500	Time Series Analysis	Major PE	4	Non-ICC – List B1 ICC – List B2
MH4501	Multivariate Analysis	Major PE	4	Non-ICC – List B1 ICC – List B2
MH4520	High Dimensional Probability	Major PE	4	
MH4522	Spatial Data Science	Major PE	4	
MH4900	Final Year Project	Major PE	8	Non-ICC – List B4 ICC – List B2
MH4920	Supervised Independent Study I	Major PE	4	Not applicable - U24 onwards
MH4921	Supervised Independent Study II	Major PE	4	Not applicable - U24 onwards

8. You are allowed to read higher level courses if you have met the pre-requisites and there are vacancies available. Pre-requisites may also be met through exemptions.

9. The locations of the Mathematics Labs are as follow:

Mathematics Lab	Location
COMP LAB 1	SPMS-MAS-03-02
COMP LAB 2	SPMS-MAS-03-03
COMP LAB 3	SPMS-MAS-03-04

10. Students who have taken courses as pre-requisites during exchange programme in the current Semester, please submit your waiver request via the Online Waiver Application using this link: https://walnut.spms.ntu.edu.sg/waiver/student/default.aspx . Please upload a copy of the course mapping details and a copy of your exchange transcript (if any) in pdf format in your application.

    Phase 1 applications: 18 Nov to 01 Dec 2024
    Phase 2 applications: 03 Jan to 19 Jan 2025

11. For students admitted in AY20 and earlier - Prescribed Electives that are not in the prescribed lists (P1 to P4 lists for PMAS, A1 to A5 lists for AMAS, S1 to S3 lists for STAT) could be registered as UE from STARS. Do check if the course is offered as both UE and Major-PE course types **before registration**. To reclassify it to Major PE, you may send an e-mail request to SPMSundgrad@ntu.edu.sg by stating clearly your matriculation number, the course code and course type to be converted to **after the add/drop period**.

12. Some of the Major Prescribed Electives offered by other schools may not have any pre-requisites. Nevertheless, students are advised to strongly assess their own background before taking these courses. Students who find themselves to have insufficient background should drop the course before the end of add/drop period. Some of these Major Prescribed Electives have extremely limited vacancies hence they could only be initially registered as UE from STARS. To convert it to Major PE, you may send an e-mail request to SPMSundgrad@ntu.edu.sg by stating clearly your matriculation number, the course code and course type to be converted to **after the add/drop period**.

13. Students who are interested may apply to take graduate courses as prescribed electives or unrestricted electives. A minimum CGPA of 4.00 is required for the application. Graduate course information may be found from https://www.ntu.edu.sg/spms/about-us/mathematics/grad/course-info. **Please note that there are no MAS graduate courses offered to UG students in AY2024-2025 Semester 2.**

14. Students who have taken courses as pre-requisites during exchange programme in the current Semester, please submit your waiver request via the Online Waiver Application using this link: https://walnut.spms.ntu.edu.sg/waiver/student/default.aspx . Please upload a copy of the course mapping details and a copy of your exchange transcript (if any) in pdf format in your application.

    Phase 1 applications: 18 Nov to 01 Dec 2024
    Phase 2 applications: 03 Jan to 19 Jan 2025

15. The following BDE courses are also offered in Semester 2 AY 2024-2025:
    Please look out for the email in Early to Mid-December.

Course Code	Course Title	Course AU	Remarks
MH5101	Advanced Investigations in Calculus II	1	Taken with MH1101
MH5201	Advanced Investigations in Linear Algebra II	1	Taken with MH1201

16. Enquiries on courses registration may be directed to SPMSundgrad@ntu.edu.sg. Your matriculation number must always be included in your e-mail. Please refrain from sending multiple similar e-mails as this will not expedite the response but rather it will cause undue delay. All enquiries will be attended to and will be replied as soon as possible, depending on the nature of the request. Appeals for GER-PE and UE/BDE vacancies are to be submitted through the online appeal system and they will not be responded to if otherwise.

17. Enquiries on network performance, Studentlink password or STARS PIN may be directed to NSS Service Desk using the IT Service Desk Form below:
    https://www.ntu.edu.sg/life-at-ntu/internet-account-and-policy/service-desk-form