Bachelor of Science in Mathematics (BS MATH)
2024 - 2025 Advising Handout

Important Information About Your Degree

- **College of Science Admission Requirement:** Students must demonstrate proficiency in College Algebra by placing into Math Level 2 or higher through the UNT Math Placement Exam (Not the same as TSI) OR completing College Algebra or higher with a grade of C or higher.
- **UNT Double-Dip Course Policy (Best Selection):** Courses shown in *italics* satisfy multiple degree program requirements. Students who do not take the Best Selection courses, will have to take additional courses to meet program requirements. Whether or not the course is taken to fulfill a specific university core category, all courses are required by the program to complete the degree. Electives may be required due to double-dipping.
- Hour and GPA Requirements for graduation/degree completion:
  - BS in Math requires at least 120 hours, 36 advanced, 2.00 UNT GPA, 2.00 overall GPA, and a minimum 2.0 GPA in math courses numbered 3350 or above.
- Courses marked with an asterisk (*) require a grade of **C or Higher**.
- Courses in **bold** require prerequisites. **Prerequisites** are listed in the university catalog with the course description.
- An official degree audit is required for graduation; Students **must** meet with an academic advisor to request that their audit be made official. Students can review degree requirements by running their audit at http://degreeaudit.unt.edu/
- For major-specific career information, contact the Department of Mathematics in GAB 443 or at MathAdvising@unt.edu.
- For information regarding transfer credit or enrollment issues, contact Krista Hines (krista.hines@unt.edu)
- For teaching certification courses and requirements, contact tnt@unt.edu.
- For assistance with TSI status or mandatory courses, contact TSI@unt.edu.
- For additional program information visit https://cos.unt.edu/advising or contact the COS Advising Center at cosadvising@unt.edu.

Advising Notation Key		
X = Requirement Completed Credit is posted within the degree audit.	IP = In Progress/Pending Credit Advisor has seen proof from an unofficial transcript or an official score	? = Needs further evaluation Student may need to provide additional information. (ex. a course syllabus)

	Foundation Requirements:	
	MATH 1710* – Calculus I	4
	MATH 1720* – Calculus II	3
	MATH 2000* – Discrete Math	3
	MATH 2700 – Linear Algebra and Vector Geometry	3
	MATH 2730 – Multivariable Calculus	3
	MATH 3000 – Real Analysis I	3
	One of the Following: Double dips with major requirement	
	MATH 3510: Intro. to Abstract Algebra I	3
	MATH 3610: Real Analysis II	3
	Major Requirements **Depth:** three courses from one of the following areas (9hrs) **Breadth:** one course in each of the three areas below not used to satisfy the depth requirement (9hrs) **Math Electives:** six hours of advanced Math elective 3350 in addition to the Depth and Breadth Requirement.	
	Analysis Area:	
	MATH 3350 – Intro to Numerical Analysis	3
	MATH 3410 – Differential Equations I	3
	MATH 3420 – Differential Equations I	3
	MATH 3610 – Real Analysis II	3
	MATH 3740 – Vector Calculus	3
	MATH 4080 – Differential Geometry	3
	MATH 4100 – Fourier Analysis	3
	MATH 4200 – Dynamical Systems	3
	MATH 4520 – Intro. To Functions of a Complex Variable	3
	Algebra Area:	
	MATH 3400 – Number Theory	3
	MATH 3510 – Intro. to Abstract Algebra I (required if depth)	3
	MATH 4010 – Intro. to Metamathematics	3
	MATH 4430 – Intro. to Graph Theory	3
	MATH 4450 – Intro. to the Theory of Matrices	3
	MATH 4510 – Abstract Algebra	3
	Probability and Statistics Area:	
	MATH 3680 – Applied Statistics	3
	MATH 4610 – Probability	3
	MATH 4650 – Statistics	3
	Geometry and Topology	
	MATH 3740 – Vector Calculus	3
	MATH 4060 – Foundation of Geometry	3
	MATH 4080 – Differential Geometry	3
	MATH 4500 – Intro. to Topology	3
	Six hours of advanced math electives 3350 or higher	
	Advanced Math Elective –	3
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	Minor Requirements	
	One of the Following is required:	
	Minor of at least 18 hours; cannot minor in Statistics	
	Completion of a second major in addition to Mathematics	
	Completion of the Actuarial Science, Data Analytics, or Secondary Teaching Certificate	

	University Core Requirements 42 hours – Students may elect to take any course approved for the University Core Curriculum to fulfill these requirements; however, there are courses recommended in the core categories for students pursuing a Mathematics major	
	Composition I*:	3
	Composition II*:	3
	Math:	3
	Life & Physical Science:	3
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	Creative Arts:	3
	Language, Philosophy & Culture:	3
	US History to 1865:	3
	US History from 1865:	3
	Federal Government:	3
	Texas Government:	3
	Social & Behavioral Sciences:	3
	Component Area Option I:	3
	Component Area Option II:	3
	Other Required Courses for Degree	
	Foreign Language Option 1: Complete 6 hours total – See catalog for options	
	Foreign Language 1010 -	3
	Foreign Language 1020 -	3
	Foreign Language Option 2: Complete 6 hours total.	
	TECM 2700* – Technical Writing	3
	Advanced Technical Writing* – See Course Catalog for options	3
	Computer Programing: Complete one of the following:	
	CSCE 1010 – Discovering Computer Science	3
	or ***CSCE 1030 – Computer Science***	4

	Three lab science courses intended for science majors in one of the following areas of emphasis (12 hours)		
	Biology Emphasis		
	BIOL 1710*	3	and **CHEM 1410 & 1430 – Gen. Chem I & Lab** or **PHYS 1710 & 1730 – Gen. Phys I & Lab**
	BIOL 1720*	3	
	BIOL 1760*	2	
	Chemistry Emphasis		
	CHEM 1410* & 1430*	4	and one Core Curriculum for natural sciences, or any 3 hours from CHEM 2000 +
	CHEM 1420* & 1440*	4	
	Physics Emphasis		
	PHYS 1710* & 1730*	4	and one Core Curriculum for natural sciences, or any 3 hours from PHYS 2000 +
	PHYS 2220* & 2240*	4	

Additional University Requirements
Advanced Hours: Elective requirements vary by path.

This information is for **ADVISING ONLY and is not official. Requirements can and do change without notification.*