

Accelerated 4 + 1 Program for the BA or BS and MS in Mathematics

Admission Criteria

Students seeking admission to the 4+1 program must satisfy the following and apply to the department.

- Complete 60 undergraduate credit hours
- Complete MTH 181, MTH 182, and three of the following: MTH 220, MTH 281, MTH 286, or MTH 288
- Earn a GPA of 3.0 in Mathematics and maintained a 3.0 GPA overall.
- File the attached Accelerated 4+1 Masters Program Application

Program Requirements (BA or BS Mathematics)

This program will have students use up to 12 credits at the graduate level to count towards the BS degree in Mathematics. The 4+1 Requirements for the BS degree are:

- MTH 181, MTH 182
- Three of the following: MTH 220, MTH 281, MTH 286, or MTH 288
- MTH 396 and MTH 496
- Total of 20 credits at the 300–500 level, to include up to but no more than 12 credits at the 500 level. The 500 level courses must include MTH 514 and 8 credits from the following list:

MTH 516	Complex Variables	4
MTH 520	Combinatorial Mathematics	4
MTH 521	Time Series Analysis	4
MTH 524	Applications of Probability	4
MTH 525	Mathematical Methods in Engineering and Science I	4
MTH 531	Categorical Data Analysis	4
MTH 534	Differential Geometry	4
MTH 537	Operations Research I	4
MTH 567	Applied Linear Models I	4
MTH 571	Statistical Methods for Genetic Data	4
MTH 577	Numerical Methods I	4
MTH 587	Dynamical Systems	4
MTH 593	Special Topics in Mathematics	4

BS Science Requirement: A minimum of 24 science credits distributed in one or any combination of the following fields: biology, geology, environmental sciences, chemistry, physics, and computer and information science. These 24 credits must include PHY 241 (or PHY 243) and PHY 242 (or PHY 244). Any courses in computer and information science used to meet this requirement must be courses that satisfy CIS major-field requirements.

BA Science Requirement: A minimum of 11 science credits, distributed in one or any combination of the following fields: biology, geology, environmental sciences, chemistry, and physics.

Program Requirements (MS Mathematics)

The program requirements for the Accelerated 4+1 program are the same as for the MS degree. These requirements are listed below.

Required Introductory Course (*4 credits*)

MTH 514 Linear Algebra and Functions of Several Variables

Electives (*28 credits*)

MTH 516 Complex Variables

MTH 521 Time Series Analysis

MTH 520 Combinatorial Mathematics

MTH 524 Applications of Probability

MTH 525 Mathematical Methods in Engineering and Science I

MTH 531 Categorical Data Analysis

MTH 534 Differential Geometry

MTH 537 Operations Research I

MTH 567 Applied Linear Models I

MTH 571 Statistical Methods for Genetic Data

MTH 577 Numerical Methods I

MTH 587 Dynamical Systems

MTH 593/693 Special Topics in Mathematics

MTH 597/697 Readings in Mathematics

MTH 626 Mathematical Methods in Engineering and Science II

MTH 638 Operations Research II

MTH 668 Applied Linear Models II

MTH 675 Applied Multivariate Statistics

MTH 678 Numerical Methods II

Up to eight credits of approved courses at or above the 400-level, offered by other departments.

Exit Requirement (*4 Credits*)

MTH 696 Mathematics Exit Project

Suggested Schedule for 4+1 Program in regard to Mathematics Courses

Semester 1 MTH 181	Semester 2 MTH 182
Semester 3 MTH 200 Level Course MTH 323	Semester 4 MTH 200 Level Course MTH 200 Level Course (Apply for admission to 4+1 Program)
Semester 5 MTH 300 or 400 Level Course	Semester 6 MTH 396 MTH 500 Level course
Semester 7 MTH 496 MTH 514	Semester 8 MTH 500 Level Course MTH 500 Level Course (Finish BA Requirements)
Semester 9 MTH 500 Level Course MTH 500 Level Course MTH 500 or 600 Level Course	Semester 10 MTH 500 or 600 Level Course MTH 500 or 600 Level Course MTH 696 (Finish MS Requirements)



Accelerated 4+1 Masters Program Application

PLEASE PRINT

First Name _____ MI _____ Last Name _____

Street Address _____ Apt. # _____

City _____ State _____ Zip _____

CSU ID Number _____

Telephone: Home (____) _____ Work (____) _____ Cell (____) _____

Email address _____

Program information

4+1 program: _____

Are you in the: Honors Program? Yes No Scholars Program? Yes No

McNair Scholars Program? Yes No STARS Program? Yes No

Accelerated program start term/year: _____ (this is the first term in which you may take
500-level graduate courses)

Expected graduation term/year (bachelor's degree): _____

Standing: Sophomore Junior Senior Hours earned _____ Grade point average _____

GRE taken/scheduled date (not required for all programs): _____

GRE scores (if known): Q _____ Verbal _____ Analytical Writing _____

Signature _____ Date _____

Office use only.

Student is eligible for the 4+1 program in _____.

Graduate program director: _____

Date: _____

*Distribution: Original to Office of the University Registrar, KB 1400
Copy to Assistant Director, Graduate Admissions, PH 221*