

BACHELOR OF SCIENCE

Mathematics Major Courses 2019-2021

11 Courses; 26 credits must be from SU

Take one of the following:

		Grade	Credit
MAT52-154	Calculus I		
MAT52-164	Applied Multivariable Calculus I		

Take one of the following:

MAT52-254	Calculus II		
MAT52-264	Applied Multivariable Calculus II		

Take one of the following:

MAT52-354	Calculus III		
MAT52-364	Applied Multivariable Calculus III		

Take the following courses:

MAT52-574	Probability and Mathematical Statistics		
MAT52-674	Linear Algebra		
MAT52-684	Algebraic Structures		
MAT52-754	Differential Equations		
MAT52-854	Real Analysis		
MAT52-894	Senior Seminar in Math Modeling		
Major Field Test			

Select two additional, approved upper level Math courses; *PHY53-454 Math Methods in Physical Science II* is an acceptable approved course (3-4 cr each).

MAT52-XX4			
MAT52-XX4			

Required Supporting Courses:

CSC54-184	Computer Science I		
CHE51-103/101	General Chemistry I/Lab		
PHY53-154	Fundamentals of Physics I		

Select one of the following:

BIO50-123/121	Living Systems/Invest. Into Living Systems*		
BIO50-133/131	Molecular and Population Genetics/Lab*		

Select one additional course from the following:

BIO50-123/121	Living Systems/Invest. Into Living Systems*		
BIO50-133/131	Molecular and Population Genetics/Invest. Genetics*		
CHE51-203/201	General Chemistry II/Lab		
CSC54-284	Computer Science II		
PHY53-164	Fundamentals of Physics II		
PHY53-404	Electronics		

Courses in the Required Supporting Course section may be used in Exploration & Breadth.

*The same course cannot be used to satisfy more than one area within the required supporting course section.

General Education Requirements

At least 30 total credits required; minimum 3 credits per requirement.

General Education - Part I

Take one of the following first semester seminars:

UST05-014	First Year Seminar		
UST05-214	Advanced Entry Seminar		

Foreign Language (three semesters of the same language)

Social Justice Course (may double count with any requirement):

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Two Fitness/Recreational Activity courses (must be different topics):

General Education - Part II: Exploration & Breadth (6 total courses)

MAT52-XXX courses cannot be used to satisfy E&B requirements. Additionally, any course that contributes to Mathematics and is used to satisfy a major requirement, may not be used in the E&B section.

Select one course from each of the four following areas:

Humanities:

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Natural Sciences:

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Social Sciences:

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Fine Arts:

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Select one additional course from TWO of the four areas: Humanities, Natural Science, Social Science and Fine Arts. Neither course may come from the department (3 digit prefix) used above. EX: If you took PSY33-104 Principles of Psychology as a social science, you may not select another PSY33-XXX course to apply in this section.

*Public Speaking, College Writing and Creative Writing courses may not count in E&B.

University Graduation Requirements:

Minimum of 127 credits:

Cumulative GPA > 2.0

GPA > 2.0 for Major and/or Areas of Concentration

All grades C- or higher in major/minor/core?

At least 64 credits completed at Southwestern

No more than 56 credits of any 5 digit prefix

Major credits completed (min 30 required)

60% of Major courses completed at Southwestern (26cr)

Gen Ed has minimum of 30 credits

Minor (optional):

Minimum 18 credits

Minimum of 12 credits taken at Southwestern

Minimum 2.0 minor courses CGPA

Other:

Degree Audit Completed (Due one year before grad date)

Grad Application Submitted (Due start of final semester)

Approved to be part time in last semester?
