

Degree Worksheet for the College of Arts and Sciences: 2022-2023

MATHEMATICS MINORS

MATHEMATICS - APPLIED MATHEMATICS - STATISTICS

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MINOR in MATHEMATICS: 24 CREDITS

LOWER DIVISION

		Credits	Grade
MATH 157	Calculus & Analytical Geometry I	4	
MATH 258	Calculus & Analytical Geometry II	4	
MATH 259	Calculus & Analytical Geometry III	4	

The Mathematics Minor is only available to students who are not majoring in Mathematics or Applied Mathematics.

Students may not obtain more than one minor from the following: Mathematics, Applied Mathematics, Statistics.

UPPER DIVISION

		Credits	Grade
MATH 301	Fundamentals of Mathematics	3	

Select one of the following 2 courses: 3 credits

MATH 335	Applied Linear Algebra	3	
MATH 339	Linear Algebra	3	

One Mathematics 300-400 level elective*: 3 credits
MATH 3

One Mathematics 400-level elective: 3 credits
MATH 3

Cannot double-count electives with another requirement.

**MATH 260 may be used as one 300-400 level elective.*

A maximum of three (3) credits from the following courses may be counted toward Mathematics electives:

MATH 365 (can be taken only once), MATH 390, 490, 497.

MATH 335, 339, 432, and 499 cannot be used for elective credit.

Check for pre-requisites when selecting electives.

MINOR in APPLIED MATHEMATICS: 24 CREDITS

LOWER DIVISION

		Credits	Grade
MATH 157	Calculus & Analytical Geometry I	4	
MATH 258	Calculus & Analytical Geometry II	4	
MATH 259	Calculus & Analytical Geometry III	4	
MATH 260	Ordinary Differential Equations	3	

The Applied Mathematics Minor is only available to students who are not majoring in Mathematics or Applied Mathematics.

Students may not obtain more than one minor from the following: Mathematics, Applied Mathematics, Statistics.

UPPER DIVISION

One of the following two courses: 3 credits

		Credits	Grade
MATH 335	Applied Linear Algebra	3	
MATH 339	Linear Algebra	3	

One of the following three courses: 3 credits

MATH 440	Foundations of Applied Math	3	
MATH 454	Partial Differential Equations	3	
MATH 462	Nonlinear Systems & Chaos	3	

One 300-400 level Mathematics elective*: 3 credits
MATH 3

Cannot double-count electives with another requirement.

**MATH 260 may be used as one 300-400 level elective.*

A maximum of three (3) credits from the following courses may be counted toward Mathematics electives:

MATH 365 (can be taken only once), MATH 390, 490, 497.

MATH 335, 339, 432, and 499 cannot be used for elective credit.

Check for pre-requisites when selecting electives.

Degree Worksheet for the College of Arts and Sciences: 2022-2023

MATHEMATICS MINORS MATHEMATICS - APPLIED MATHEMATICS - STATISTICS

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MINOR in STATISTICS: 23 CREDITS

LOWER DIVISION

		Credits	Grade
MATH 157	Calculus & Analytical Geometry I	4	
MATH 258	Calculus & Analytical Geometry II	4	

UPPER DIVISION

One of the following two courses:		3 credits	
		Credits	Grade
MATH 335	Applied Linear Algebra	3	
MATH 339	Linear Algebra	3	

One of the following two courses:		3 credits	
		Credits	Grade
MATH 321	Statistics for Experimentalists	3	
MATH 422	Mathematical Statistics*	3	

*MATH 421 is a pre-requisite for MATH 422

One of the following two courses:		3 credits	
		Credits	Grade
MATH 425	Applied Statistical Models	3	
MATH 426	Experimental Design	3	

Statistics Electives:

Select any two from the following, at least one of which must be MATH:

		6 credits	
		Credits	Grade
MATH 421	Probability Theory	3	
MATH 422	Mathematical Statistics	3	
MATH 423	Stochastic Processes	3	
MATH 426	Experimental Design	3	
ECON 355	Regression Analysis	3	
ECON 451	Econometrics	3	
ECON 452	Time Series Analysis	3	
CPSC 322	Data Science Algorithms	3	
CPSC 323	Machine Learning & Intelligent Systems	3	
CPSC 324	Big Data Analytics	3	
PHYS 450	Statistical Physics	3	

or any course with significant probability or statistics content with **prior** approval of the MATH department chair

NOTE: ALL of these statistics elective courses have pre-requisites; some selections require courses to be taken outside of this minor.

Cannot double-count electives with courses used elsewhere.

Check for pre-requisites when selecting electives.

The Statistics Minor is only available to students who are not majoring in Mathematics or Applied Mathematics.

Students may not obtain more than one minor from the following: Mathematics, Applied Mathematics, Statistics.