# Degree Worksheet for the College of Arts and Sciences: 2023-2024 MATHEMATICS MINORS MATHEMATICS - APPLIED MATHEMATICS - STATISTICS

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#### **MINOR in MATHEMATICS: 24 CREDITS**

**UPPER DIVISION** 

Credits Gr		Cradita Crada
MATH 157 Calculus & Analytical Geometry I 4 I	MATH 301 Fundamentals of Mathematics	Credits Grade
MATH 157 Calculus & Analytical Geometry I 4  MATH 258 Calculus & Analytical Geometry II 4	WATH 501 Fulldamentals of Mathematics	3
MATH 259 Calculus & Analytical Geometry III 4	Select one of the following 2 courses:	2 cradita
MATH 259 Calculus & Analytical Geometry III 4		3 credits
	MATH 335 Applied Linear Algebra	3
	MATH 339 Linear Algebra	3
	One Mathematics 300-400 level elective*:	<b>3 credits</b> 3
	One Mathematics 400-level elective:	<b>3 credits</b> 3
The Mathematics Minor is only available to students who are not majoring in Mathematics or Applied Mathematics.	Cannot double-count electives with another require	ement.
are not majoring in Mathematics of Applied Mathematics.	*MATH 260 may be used as one 300-400 level elective.	
Students may not obtain more than one minor from the following: Mathematics, Applied Mathematics, Statistics.	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.	
	2-requisites when selecting electives. MATH 335-339-432-496-499 cannot be used as Math elective.	
Check for pre-requisites when selecting electives.	MATH 335, 339, 432, 496, 499 cannot be used as M	1ath electives.
	MATH 335, 339, 432, 496, 499 cannot be used as M	1ath electives.
		1ath electives.
MINOR in APPLIED M	IATHEMATICS: 24 CREDITS  UPPER DIVISION	
MINOR in APPLIED M LOWER DIVISION	IATHEMATICS: 24 CREDITS  UPPER DIVISION  One of the following two courses:	3 credits
MINOR in APPLIED M LOWER DIVISION  Credits Gr	IATHEMATICS: 24 CREDITS  UPPER DIVISION  One of the following two courses:	<b>3 credits</b> Credits <u>Grade</u>
MINOR in APPLIED M  LOWER DIVISION  Credits Gr MATH 157 Calculus & Analytical Geometry I 4	IATHEMATICS: 24 CREDITS  UPPER DIVISION  One of the following two courses:  MATH 335 Applied Linear Algebra	3 credits
MINOR in APPLIED M  LOWER DIVISION  Credits Gr  MATH 157 Calculus & Analytical Geometry I 4  MATH 258 Calculus & Analytical Geometry II 4	IATHEMATICS: 24 CREDITS  UPPER DIVISION  One of the following two courses:	3 credits Credits Grade 3
MINOR in APPLIED M  LOWER DIVISION  Credits Gr MATH 157 Calculus & Analytical Geometry I 4 MATH 258 Calculus & Analytical Geometry II 4 MATH 259 Calculus & Analytical Geometry III 4	UPPER DIVISION  One of the following two courses:  MATH 335 Applied Linear Algebra  MATH 339 Linear Algebra	3 credits Credits Grade 3 3
MINOR in APPLIED M  LOWER DIVISION  Credits Gr  MATH 157 Calculus & Analytical Geometry I 4  MATH 258 Calculus & Analytical Geometry II 4  MATH 259 Calculus & Analytical Geometry III 4	UPPER DIVISION  One of the following two courses:  MATH 335 Applied Linear Algebra  MATH 339 Linear Algebra  One of the following three courses:	3 credits Credits Grade 3 3
MINOR in APPLIED M  LOWER DIVISION  Credits Gr MATH 157 Calculus & Analytical Geometry I 4 MATH 258 Calculus & Analytical Geometry II 4 MATH 259 Calculus & Analytical Geometry III 4	UPPER DIVISION  One of the following two courses:  MATH 335 Applied Linear Algebra  MATH 339 Linear Algebra  One of the following three courses:  MATH 440 Foundations of Applied Math	3 credits Credits Grade 3 3 3 3 credits 3 credits
MINOR in APPLIED M  LOWER DIVISION  Credits Gr  MATH 157 Calculus & Analytical Geometry I 4  MATH 258 Calculus & Analytical Geometry II 4  MATH 259 Calculus & Analytical Geometry III 4	UPPER DIVISION  One of the following two courses:  MATH 335 Applied Linear Algebra MATH 339 Linear Algebra  MATH 340 Foundations of Applied Math MATH 454 Partial Differential Equations	3 credits Credits Grade 3 3 3 3 3 credits 3 3
MINOR in APPLIED M  LOWER DIVISION  Credits Gr  MATH 157 Calculus & Analytical Geometry I 4  MATH 258 Calculus & Analytical Geometry II 4  MATH 259 Calculus & Analytical Geometry III 4	UPPER DIVISION  One of the following two courses:  MATH 335 Applied Linear Algebra  MATH 339 Linear Algebra  One of the following three courses:  MATH 440 Foundations of Applied Math	3 credits Credits Grade 3 3 3 3 credits 3 credits
MINOR in APPLIED M  LOWER DIVISION  Credits Gr MATH 157 Calculus & Analytical Geometry I 4 MATH 258 Calculus & Analytical Geometry II 4 MATH 259 Calculus & Analytical Geometry III 4	UPPER DIVISION  One of the following two courses:  MATH 335 Applied Linear Algebra MATH 339 Linear Algebra  MATH 340 Foundations of Applied Math MATH 454 Partial Differential Equations	3 credits Credits Grade 3 3 3 3 3 credits 3 3

Cannot double-count electives with another requirement.

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

be counted toward Mathematics electives:

A maximum of three (3) credits from the following courses may

MATH 335, 339, 432, 496, 499 cannot be used as Math electives.

Check for pre-requisites when selecting electives.

The Applied Mathematics Minor is only available to students who

are not majoring in Mathematics or Applied Mathematics.

the following: Mathematics, Applied Mathematics, Statistics.

Students may not obtain more than one minor from

**LOWER DIVISION** 

## Degree Worksheet for the College of Arts and Sciences: 2023-2024

### **MATHEMATICS MINORS MATHEMATICS - APPLIED MATHEMATICS - STATISTICS**

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MINOR in STATISTICS: 23 CREDITS			
LOWER DIVISION	UPPER DIVISION		
Credits Grade	One of the following two courses:	<b>3 credits</b> Credits Grade	
MATH 157 Calculus & Analytical Geometry I 4	MATH 335 Applied Linear Algebra	3	
MATH 258 Calculus & Analytical Geometry II 4	MATH 339 Linear Algebra	3	
	One of the following two courses:	3 credits	
	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	
	MATH 425 Applied Statistical Models	3	
	MATH 426 Experimental Design	3	
The Statistics Minor is only available to students who are not majoring in Mathematics or Applied Mathematics.	Statistics Electives:	6 credits	
not majoring in wathematics of Applied Wathematics.	-	3	
	Select any two from the following, at least one of wh must be MATH:		
	MATH 422 Mathematical Statistics	3	
Students may not obtain more than one minor from	MATH 423 Stochastic Processes	3	
the following: Mathematics, Applied Mathematics, Statistics.	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 323 Statistical Mechanics	3	

Check for pre-requisites when selecting electives.

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

Advanced Statistics in Psychology

**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.