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

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## 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:
MATH
3 $\qquad$
Cannot double-count electives with another requirement.
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, 496, 499 cannot be used as Math electives.

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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 |  |

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.

Check for pre-requisites when selecting electives.

UPPER DIVISION

| One of the following two courses: | 3 credits <br> Credits Grade |  |
| :---: | :---: | :---: |
| MATH 335 Applied Linear Algebra | Credit 3 |  |
| 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 |  |
| Statistics Electives: | 6 credits |  |
|  | 3 |  |
|  | 3 |  |

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

| 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 323 | Statistical Mechanics | 3 |  |
| PSYC 450 | Advanced Statistics in Psychology | 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.

