# Statistics Major Checklist

## CORE COURSES:

- □ MAT 129 Calculus I
- □ MAT 229 Calculus II
- □ MAT 194 Mathematical Sciences Seminar
- □ STA 250 Probability and Statistics I
- □ STA 314 Design and Analysis of Experiments
- □ STA 341 Statistics II
- □ STA 360 Statistical Computing
- □ STA 129 Calculus I
- □ MAT 128 Calculus A
- □ MAT 227 Calculus B
- □ MAT 228 Calculus C

### COURSES LISTING (PLEASE REFER TO OUR WEBSITE math.nku.edu FOR THE MOST CURRENT COURSES AVAILABLE.)

- STA 312 Elementary Survey Sampling
- STA 315 Design and Analysis of Experiments II
- STA 317 Introduction to Time Series Analysis
- STA 340 Probability II
- STA 370 Introduction to Statistical Consulting
- STA 419 Applied Multivariate Analysis
- STA 450 Introduction to Actuarial Science
- STA 470 Supervised Statistics Consulting

### ELECTIVES:

18 Hours of 300-level or above courses in STA or MAT (with advisor approval)

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<th>9 Hours in STA Courses 1</th>
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<th>9 Additional Hours in MAT/STA Courses 2</th>
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A grade of ‘C-’ or better is required in each course applied to the major. At least 9 semester hours towards the major must be taken at NKU.

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1 Course listing (please refer to our website math.nku.edu for the most current courses available.)

- STA 312 Elementary Survey Sampling
- STA 315 Design and Analysis of Experiments II
- STA 317 Introduction to Time Series Analysis
- STA 340 Probability II
- STA 370 Introduction to Statistical Consulting
- STA 419 Applied Multivariate Analysis
- STA 450 Introduction to Actuarial Science
- STA 470 Supervised Statistics Consulting

2 A full listing of all MAT courses can be found on our website math.nku.edu. (MAT 234 Linear Algebra applies toward the 18 hours of electives.)

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**The Double Major in Mathematics and Statistics:** A double major in mathematics and statistics consists of satisfying the degree requirements of both majors with a minimum of 58 credit hours of courses applicable to either major.

**The Minor in Mathematical Sciences:** Students wishing to obtain a minor in mathematical sciences must take 21 semester hours of mathematics and statistics courses numbered 100 or higher as well as CSC 270 Mathematics Software Programming. A GPA of at least 2.00 in all courses applied to the minor is required.