

# STATISTICS AND ANALYTICS MINOR

## Contact Information

**Department of Statistics and Operations Research**  
 Visit Program Website (<http://www.stat-or.unc.edu>)  
 318 Hanes Hall, CB# 3260  
 (919) 843-6024

**Vladas Pipiras, Chair**

**Serhan Ziya, Director of Undergraduate Studies**  
 ziya@email.unc.edu

**Alison Kieber, Administrative Services Assistant**  
 kieber@email.unc.edu

Statistics and analytics is an excellent program for students interested in statistical data science, operations research, and actuarial science, as well as in fields such as business, economics, public policy and health, psychology, and biomedicine where the decision and statistical sciences play an increasingly important role.

## Department Programs

### Major

- Statistics and Analytics Major, B.S. (<http://catalog.unc.edu/undergraduate/programs-study/statistics-analytics-majors-bs/>)

### Minor

- Statistics and Analytics Minor (p. 1)

### Graduate Programs

- M.S. in Statistics and Operations Research (<http://catalog.unc.edu/graduate/schools-departments/statistics-operations-research/>)
- Ph.D. in Statistics and Operations Research (<http://catalog.unc.edu/graduate/schools-departments/statistics-operations-research/>)

In addition to the program requirements listed below, students must:

- take at least nine hours of their minor 'core' requirements at UNC-Chapel Hill
- earn a minimum of 12 hours of C or better in the minor (some minors require more)

For more information, please consult the degree requirements section of the catalog (<http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements/#degreerequirementstext>).

Code	Title	Hours
<b>Core Requirements</b>		
STOR 155	Introduction to Data Models and Inference	3-4
or STOR 120	Foundations of Statistics and Data Science	
STOR 215	Foundations of Decision Sciences	3
or MATH 381	Discrete Mathematics	
Three courses from among: <sup>3</sup>		9
STOR 305	Introduction to Decision Analytics	
STOR 320	Introduction to Data Science <sup>1</sup>	

STOR 415	Introduction to Optimization	
STOR 435	Introduction to Probability <sup>2</sup>	
STOR 445	Stochastic Modeling	
STOR 455	Methods of Data Analysis	
STOR 465	Simulation for Analytics	
STOR 471	Long-Term Actuarial Models	
STOR 472	Short Term Actuarial Models	
STOR 475	Healthcare Risk Analytics	
STOR 520	Statistical Computing for Data Science <sup>1</sup>	
STOR 535	Probability for Data Science <sup>2</sup>	
STOR 538	Sports Analytics	
STOR 555	Mathematical Statistics	
STOR 556	Advanced Methods of Data Analysis	
STOR 565	Machine Learning	
<b>Total Hours</b>		<b>15-16</b>

- <sup>1</sup> Students may not receive credit for both STOR 320 and STOR 520.
- <sup>2</sup> Students may not receive credit for both STOR 435 and STOR 535.
- <sup>3</sup> Some courses are 4-credits (see course description).

See the program page here (<http://catalog.unc.edu/undergraduate/programs-study/statistics-analytics-majors-bs/>) for special opportunities.