

# ANALYTICS MINOR

Natalya Shelkova, Department of Analytics

The minor in Analytics provides graduates with a foundation of data analysis skills that can support a wide variety of careers in corporate and not-for-profit organizations, government agencies, research institutions, and education and health care organizations. Students who will benefit from a minor in Analytics include those majoring in Economics, CTIS, Mathematics, Business, Sports Management, Public Health, any of the natural or social sciences, among others. Those students who are interested in the digital humanities or any field that benefits from the analysis of large sets of data will learn a variety of skills, methods, and analytical tools through completion of the minor.

The minor in Analytics requires the completion of four specified courses, one each in statistics, computer programming, economics, and analytics, and an elective course (20 credits) as listed below. In these courses, students will develop a range of knowledge and skills for developing conceptual and statistical analyses of large-scale problems that can be approached through work with data.

## Minor Requirements

Code	Title	Credits
------	-------	---------

**All students in the analytics minor complete the following four requirements.**

ECON 222	Microeconomic Principles: Public Policy	4
CTIS 210	Introduction to Computer Programming	4
MATH 112 or ECON 312	Elementary Statistics Econometrics	4
ECON 328	Analytics for Business and Government (ACCT 328 or MATH 328)	4

**Elective. One course selected from the following:**

CTIS 243	Management Information Systems (BUS 243)	4
CTIS 310	Advanced Computer Programming	4
CTIS 331	Information Design	4
MATH 220	Calculus I	4
MATH 222	Calculus II	4
MATH 241	Scientific Computing	4
MATH 310	Probability and Statistics	4
ECON 311	Data Collection & Analysis	4
PHIL 241	Ethics In a Digital World	4

**Total credit hours required for analytics minor is 20 credits**

Students interested in the Analytics minor should consult with an advisor to determine the choice of elective courses that best serves their purposes. The minor in Analytics is not available to Analytics majors. With questions about the minor contact Analytics program coordinator Prof. Natalya Shelkova, shelkovany@guilford.edu