DATA SCIENCE MINOR

Minor Requirements

22 credits

Code	Title	Credits
MATH 170	CALCULUS I	5
MATH 190	DATA SCIENCE SEMINAR	1
MATH 250	LINEAR ALGEBRA	4
MATH 280	MATHEMATICAL MODELING EXPERIENCE	1
COMP 160	INTRODUCTION TO PROGRAMMING: FUNCTIONS	3
MATH 140	INTRODUCTION TO STATISTICS	3-4
or MATH 340	PROBABILITY AND STATISTICS I	
or PSYC 251	QUANTITATIVE METHODS FOR PSYCHOLOGY	
Remainder of credits of the following (to reach 22 total):		5
BIOL 340	BIOINFORMATICS	
COMP 260	DATABASE MANAGEMENT SYSTEMS	
ECON 416	ECONOMETRICS	
MATH 380	NUMERICAL ANALYSIS	
MATH 440	PROBABILITY & STATISTICS II	
PHYS 325	COMPUTATIONAL PHYSICS	
Total Credits		**22-23**

Student Learning Outcomes

The data science programs are designed to provide students the mathematical, statistical and computer programming tools necessary to interpret an increasingly data-driven world. The minor is ideal for students from all disciplines who wish to develop strong quantitative skills which can be applied to their area of interest. It will provide a solid foundation that prepares students for further work, whether in graduate study or future employment. Students who complete either a mathematics – data science track major or a data science minor will:

- develop quantitative and analytical skills that are applicable to a wide range of disciplines;
- use data-driven solutions to make and defend informed judgments;
- apply data science to real world problems and communicate their solutions effectively; and
- develop teamwork skills.