

# STATISTICAL DATA SCIENCE, CERTIFICATE (1802)

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## Program Coordinator

The Graduate Certificate in Statistical Data Science offers a 12-hour program that covers statistics, data science, and some of the underlying statistics and numerical linear algebra in data science with select applications.

## Program Admission

1. A 2.75 cumulative GPA.
2. Completion of the following undergraduate courses:
  - a. two-semester single-variable calculus sequence;
  - b. linear algebra;
  - c. discrete mathematics;
  - d. statistics or probability course;
  - e. one-year sequence of programming courses;
  - f. B.A. degree with a major in either Computer Science, Engineering, Mathematics, Statistics, or Physics.
3. A cumulative grade point average of at least 3.0 (on a 4.0 scale) in at least one of the following:
  - a. all mathematics and computer science courses that are listed in (a) through (e) of Item 2 above; or
  - b. all courses in the major listed in (f) of Item 2 above. Students cannot enter the program if they have a deficiency in the courses listed in Item 2 above.

All applicants must submit the following documents for consideration:

1. Transcripts
2. Curriculum Vitae (CV)

## Program Requirements (12 hours)

Code	Title	Hours
<b>Required Courses</b>		
MATH 406G	Numerical Linear Algebra with Applications in Data Science (Numerical Linear Algebra with Applications in Data Science)	3
STAT 480G	Advanced Statistical Data Analysis	3
STAT 549	Statistical Methods I	3
CS 555 or CS 456G	Data Science Artificial Intelligence	3
<b>Total Hours</b>		<b>12</b>