

# Statistics and Analytics (STAN)

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**Program Description:** The graduate certificate in Statistics and Analytics is a cross-college interdisciplinary program that builds on the university's current strengths in the colleges of Arts and Sciences; Business; Education and Health Professions; and Engineering.

**Admission to the Graduate Certificate Program:** Applicants to the graduate certificate in Statistics and Analytics must meet the admission requirements of the Graduate School.

**Requirements for the Graduate Certificate in Statistics and Analytics:**

The Graduate Certificate requires 12 hours of courses as specified below.

Choose one of the following:	3-4
STAT 5003 Statistical Methods & STAT 5001L and Statistics Methods Laboratory	
ESRM 6403 Educational Statistics and Data Processing	
ISYS 5503 Decision Support and Analytics	
PLSC 5913 Research Methods in Political Science	
PSYC 5133 Inferential Statistics for Psychology	
SOCI 5013 Advanced Social Research	
Choose one of the following:	3
STAT 5313 Regression Analysis	
INEG 5393 Applied Regression Analysis for Engineers	
PLSC 5943 Advanced Research Methods in Political Science	
PSYC 5143 Advanced Descriptive Statistics for Psychology	
SOCI 5313 Applied Data Analysis	
Choose one of the following:	3
STAT 5353 Methods of Multivariate Analysis	
ISYS 5723 Advanced Multivariate Analysis	
ESRM 6453 Applied Multivariate Statistics	
Choose one of the following:	3
STAT 4373 Experimental Design	
INEG 5333 Design of Industrial Experiments	
ESRM 6413 Experimental Design in Education	
<b>Total Hours</b>	<b>12</b>