

Department of Software Engineering
 Building 70 # 1690
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Application Domain Description

UNDERGRADUATE

Name of domain: Statistics

Provides an opportunity for students to deepen their background in modern mathematical sciences and the use of statistics as an analytical tool. The domain is useful to software engineers developing commercial grade statistical analysis tools and products or to software engineering quality managers analyzing software process and product metrics.

Courses (Select *three* of the following)

<i>Course number</i>	<i>Course title</i>	<i>Prerequisites</i>
STAT-305	Regression Analysis	MATH-241 and STAT-205
STAT-325	Design of Experiments	STAT-205
STAT-315	Statistical Quality Control	STAT-205
STAT-345	Non-parametric Statistics	STAT-205
STAT-415	Statistical Sampling	STAT-205

Domain Prerequisites

<i>Course number</i>	<i>Course title</i>	
MATH-182	Project Based Calculus II (SE required course)	
MATH-190	Discrete Mathematic for Computing (SE require course)	
STAT-205	Applied Statistics (SE required course)	MATH-182
MATH-241	Linear Algebra	MATH-190

Considerations

See the Undergraduate Bulletin for information on pursuing a Minor in Statistics.

Before you start on an application domain you should work through the impacts on your schedule. There may be a need to coordinate your co-op blocks based on the semesters in which courses are typically offered as well as considering course pre-requisite chains required within the application domain. Be sure to check with the sponsoring department to obtain the latest information on course prerequisites, scheduling, and registration constraints. Before embarking on a minor you should meet with the department sponsoring the minor to review their current minor requirements, register for the minor, and review scheduling strategies.