The Ohio State University
Department of Statistics
Introduction to the New Undergraduate Minor in Statistics Curriculum

A demonstrated knowledge and working understanding of basic statistical techniques and methods is critical for students in many disciplines, including business, engineering, life sciences and social sciences. The undergraduate minor in statistics is designed as a valuable asset to enhance most undergraduate majors and career opportunities for their students.

As of autumn 2018, we have implemented a large revision to the undergraduate minor curriculum. There were several reasons for this change, including taking advantage of new courses that integrate modern statistical computation and aligning the courses with the new undergraduate major in statistics and undergraduate major in data analytics. This document gives a snapshot of many key features of the minor. Students should refer to the official minor sheet for detailed requirements. *Students who began pursuing the minor degree in or before autumn 2018 or who are required to take STAT 4201/2 for their major may be able to earn the degree under the curriculum in effect in August 2018; contact the statistics major advisor for more information by calling (614) 292-6961.*

Required Courses, Credits and Prerequisites

Course	Credits	Prerequisite snapshot (see the course catalog for details)
STAT 3201*	3	Calculus II
STAT 3202*	4	STAT 3201
STAT 3301	3	STAT 3202* and concurrent linear algebra‡
STAT 3302 or STAT 3410	3	STAT 3301 and linear algebra STAT 3202

* The STAT 3201/2 sequence may be replaced with the STAT 4201/2 sequence to fulfill the required courses. However, this sequence does not on its own satisfy the prerequisite for STAT 3301. Students taking this option must complete training in statistical programming prior to enrollment in STAT 3301.

‡ Linear algebra concurrence may be waived for students who complete supplemental educational activities prior to the start of STAT 3301. (The linear algebra prerequisite is strictly enforced for STAT 3302.)

Sample Programs (Courses with math *pre*requisites beyond Calculus II are highlighted)

	Autumn	Spring
Sample Program A		
Year 1	3201	3202
Year 2	3301	3302

	Autumn	Spring
Sample Program B		
Year 1	4201	4202, R for Data Science
Year 2	3301	3302

	Autumn	Spring
Sample Program C		
Year 1	3201	3202
Year 2	3301	
Year 3	3410	

	Autumn	Spring
Sample Program D		
Year 1	4201	4202, R for Data Science
Year 2	3301	
Year 3	3410	

	Autumn	Spring
Sample Program E		
Year 1	3201	3202
Year 2	3301, 3410	

	Autumn	Spring
Sample Program F		
Year 1	4201	4202, R for Data Science
Year 2	3301, 3410	

Information for Major/Minor Course Overlap

The proposed minor curriculum requires 13 credit hours, 12 of which must be unique to the minor in statistics. That is, students typically can not count courses that fulfill requirements for their major or another minor toward the minor in statistics. Typical examples are listed below.

- Mathematics and actuarial science majors have some other route for demonstrating that they have achieved the learning objectives for STAT 4201 (e.g., MATH 4530 or Actuarial Science P-exam). The Undergraduate Coordinator **may** waive STAT 4201 as a required core course in these situations. However, students in this situation must supplement their statistics minor program with approved electives to achieve at least 12 unique credits in total.
- Mathematics and actuarial science majors may be required to take STAT 4202 as a required course for their major. Students in this situation must supplement their statistics minor program with approved electives to achieve at least 12 unique credits in total.

Possible Supplemental Electives

Course	Credits	Typical Offering	Prerequisites
Pre-approved sections of STAT 4194 (e.g., R for Data Science)	1-2	Spring	GE Data Analysis course
STAT 3302 Statistical Modeling for Discovery II (If not used to fulfill core requirements)	3	Spring	STAT 3301 and MATH 2568
STAT 3303 Bayesian Analysis and Statistical Decision Making	3	Spring	STAT 3301, or permission of instructor (email inquiry)
STAT 3410 Principles of Data Collection and Analysis (If not used to fulfill core requirements)	3	Autumn	STAT 3201/2, or STAT 4201/2 and R Bridge
STAT 4620 Introduction to Statistical Learning	2	Autumn	STAT 3302
STAT 5550 Introductory Time Series Analysis	3	Spring	STAT 3301, or STAT 4202 and 5302
STAT 5740 Introduction to SAS Software	2	Autumn	STAT 5302, or permission of instructor (email inquiry)