

**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)
<a href="#">STAT 3201</a> *	3	Calculus II
<a href="#">STAT 3202</a> *	4	STAT 3201
<a href="#">STAT 3301</a>	3	STAT 3202* and concurrent MATH 2568‡
<a href="#">STAT 3302</a> or <a href="#">STAT 3410</a>	3	STAT 3301 and MATH 2568 STAT 3202

\* The STAT 3201/2 sequence may be replaced with the STAT 4201/2 + STAT 5730 sequence to fulfill the required courses.

‡ MATH 2568 concurrence for STAT 3301 may be waived for students who complete supplemental educational activities prior to the start of STAT 3301. (The MATH 2568 linear algebra prerequisite is strictly enforced for STAT 3302.)

### Sample Programs (Courses with math prerequisites beyond Calculus II are highlighted)

	Autumn	Spring		Autumn	Spring
Sample Program A			Sample Program B		
Year 1	3201	3202	Year 1	4201	4202, 5730
Year 2	3301	3302	Year 2	3301	3302
Sample Program C			Sample Program D		
Year 1	3201	3202	Year 1	4201	4202, 5730
Year 2	3301		Year 2	3301	
Year 3	3410		Year 3	3410	
Sample Program E			Sample Program F		
Year 1	3201	3202	Year 1	4201	4202, 5730
Year 2	3301, 3410		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 cannot 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
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 ( <a href="#">email inquiry</a> )
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 5730
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 5730 Introduction to R for Data Science	2	Spring	GE Data Analysis course
STAT 5740 Introduction to SAS Software	2	Autumn	STAT 5302, or permission of instructor ( <a href="#">email inquiry</a> )
Pre-approved sections of STAT 4194	1-2	Autumn/Spring	