

STATISTICS MAJOR
B.S. Degree
GRADUATE STUDY OPTION

For the B.S. degree in Statistics, one hundred twenty (120) credits are required with at least thirty-one (31) credits at the 400-level. Students must earn a grade of “C” or better in MATH 140 and MATH 141. Students must earn a “C” or better in courses required for the major.

GENERAL EDUCATION

COMMUNICATIONS (GWS)	9 cr.	
ENGL 15 or 30	3	
ENGL 202C	3	
CAS 100	3	

QUANTIFICATION (GQ)	8 cr.	
MATH 140	4	
MATH 141	4	

(GHA) HEALTH & PHYSICAL ACTIVITIES	3 cr.	

NATURAL SCIENCES (GN)	9 cr.	
	3	
	3	
	3	

HUMANITIES (GH)	6 cr.	
	3	
	3	

SOCIAL & BEHAV. SCI. (GS)	6 cr.	
	3	
	3	

ARTS (GA)	6 cr.	
	3	
	3	

The total credits on this page should be at least 47.

ADVISING NOTES:

In addition to the above requirements, each student must complete three credits of intercultural and international competence (GI); a first-year seminar; and three credits of writing across the curriculum (W suffix). The writing across the curriculum requirement is satisfied for statistics majors by STAT 470W. We recommend but do not require that statistics students take the statistics first-year seminar during the fall of their first year at Penn State.

Students may petition to substitute three credits of GS, GA, or GH for three credits of another of GS, GA, or GH. This substitution is often referred to as the 3-6-9 sequence (as opposed to the 6-6-6 sequence in GS, GA, GH shown above).

For more detailed information about general education requirements at Penn State, including more detailed descriptions of GI, first-year seminar, and W requirements, see www.psu.edu/bulletins/bluebook/gened

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STATISTICS 25 cr.

STAT 220 ¹	3	
STAT 414	3	
STAT 415	3	
STAT 416	3	
STAT460	3	
STAT 462	3	
STAT 464	3	
STAT 470W ²	3	
STAT 480	1	

MATHEMATICAL SCIENCES 7 - 9 cr.

MATH 220	2	
MATH 484 or IE 405	3	
MATH 231 or 230	2-4	

COMPUTER SCIENCE 6 – 7 cr

CSE 103 or CMPSC 201	3-4	
CSE 455 ³	3	

GRADUATE STUDY OPTION

REQUIRED COURSES 9 cr.

CSE 456	3	
MATH 403	3	
MATH 404	3	

ADDITIONAL COURSES 9 cr.

MATH 310	3	
MATH 421 (previously 406)	3	
MATH 426	3	
MATH 429	3	
MATH 441	3	
MATH 457	3	
MATH 468	3	
MATH 485	3	
MATH 486	3	

SUPPORTING COURSES 13-16

The total credits on this page should be at least 73.

¹ Introductory course for statistics majors.

² Required Writing Across the Curriculum course.

³ CSE 455 is a required prerequisite for CSE 456 in the graduate study option.