

Purdue University - College of Science

# Minor in Statistics (STAT)

The following courses describe the minimum coursework necessary to earn a minor in Statistics.

**ALL COURSES FOR THIS MINOR MUST BE TAKEN AT PURDUE UNIVERSITY**

Students Majoring in Actuarial Science, Applied Statistics, Mathematical Statistics,  
and/or Statistics with Math cannot complete this minor.

## PRE-REQUISITE COURSES FOR STAT MINOR

To complete the required courses for the Statistics minor, you will need to first complete the following pre-requisite courses [by completing the course or establishing credit]. **These courses are not part of the Statistics minor.**

_____	MA 16500	Plane Analytic Geometry and Calculus I	5 credits
_____	MA 16100	Plane Analytic Geometry and Calculus II	4 credits
_____	MA 16010	Applied Calculus I [Note: students only completing MA 16010 will have limited pathways to finish the minor due to pre-requisites]	3 credits

**To obtain a minor in Statistics, the following courses must be completed. A course can only be used in one area.**  
3 credits from AREA 1, 3 credits from AREA 2, 3 credits from AREA 3, 6 credits from AREA 4 = 15 TOTAL Credits

<b>AREA 1: CHOOSE ONE COURSE</b>			
_____	STAT 35000	Introduction to Statistics	3 credits
_____	STAT 50300	Statistical Methods for Biology	3 credits
_____	STAT 51100	Statistical Methods	3 credits
_____	MGMT 30500	Business Statistics <b>MANAGEMENT STUDENTS ONLY!</b>	3 credits
_____	IE 33000	Probability And Statistics In Engineering II <b>IE STUDENTS ONLY!*</b>	3 credits
<b>AREA 2: CHOOSE ONE COURSE</b>			
_____	STAT 22500	Introduction to Probability Models	3 credits
_____	STAT 31100	Introductory Probability	3 credits
_____	STAT 41600	Probability {pre-requisite: MA 26100}	3 credits
_____	IE 23000	Probability And Statistics In Engineering I <b>IE STUDENTS ONLY!*</b>	3 credits
<b>AREA 3</b>			
_____	STAT 51200	Applied Regression Analysis	3 credits
<b>AREA 4: CHOOSE TWO COURSES</b>			
_____	STAT 51300/IE 53000	Statistical Quality Control	3 credits
_____	STAT 51400	Design of Experiments	3 credits
_____	STAT 41600	Probability	3 credits
_____	STAT 41700	Statistical Inference	3 credits
_____	IE 33600	Operations Research - Stochastic Models	3 credits

**AT LEAST 9 credits of the 15 credit hour minor must be STAT courses.**

**IE 53000 is considered a STAT course due to cross-listing**

**DUE TO MINOR REQUIREMENTS AND PRE-REQUISITES, BELOW ARE THE SUGGESTED PATHWAYS FOR SPECIFIC MAJORS:**

Krannert Students: STAT 22500, MGMT 30500, STAT 51200, STAT 51300, STAT 51400

IE Majors: IE 23000, IE 33000, STAT 51200, STAT 51300/IE 53000, STAT 51400

Pharmacy, Nursing, Biology, Agriculture Majors: STAT 50300, STAT 22500, STAT 51200, STAT 51300, STAT 51400

MATH Majors: STAT 35000, STAT 41600, STAT 51200, STAT 41700, STAT 51400

Science: STAT 51100, STAT 22500, STAT 51200, STAT 51300, STAT 51400

Courses that do not require calculus, such as PSY 20100 and SOC 38200, are not equivalent to the courses listed.

Updated: 9/16/14