Statistics, PhD

Academic Plans

Sample Plan of Study

Sample plans represent one way to complete a program of study. Actual course selection and sequence will vary and should be discussed with an academic advisor. For additional sample plans, see MyUI.

Statistics, PhD

Data Science Concentration

Course	Title	Hours
Academic Career		
Any Semester		
76 s.h. must be graduate level coursework; graduate transfer credits allowed upon approval. More information is included in the General Catalog and on department website. [a]		
	Hours	**0**
First Year		
Fall		
STAT:5090	ALPHA Seminar	1
STAT:5100	Statistical Inference I	3
STAT:5200	Applied Statistics I	4
STAT:5400	Computing in Statistics	3
	Hours	**11**
Spring		
STAT:5101	Statistical Inference II	3
STAT:5120	Mathematical Methods for Statistics	3
STAT:5201	Applied Statistics II	3
	Hours	**9**
Second Year		
Fall		
STAT:6300	Probability and Stochastic Processes I	3
STAT:6990	Readings in Statistics [b, c]	1
STAT:7100	Advanced Inference I	3
STAT:7200	Linear Models	4
	Hours	**11**
Spring		
STAT:4580	Data Visualization and Data Technologies	3
STAT:6220	Consulting and Communication With Data	3
STAT:6990	Readings in Statistics [b, c]	1
STAT:7400	Computer Intensive Statistics	3
	Hours	**10**
Third Year		
Any Semester		
Identify dissertation advisor, dissertation topic, and dissertation committee		
	Hours	**0**
Fall		
Exam: Doctoral Comprehensive Exam [d]		
STAT:4540	Statistical Learning	3
STAT:7990	Reading Research [e]	4
Data science concentration area course [f]		3
	Hours	**10**
Spring		
STAT:7390 or STAT:7290 or STAT:7190	Seminar: Probability or Seminar: Applied Statistics or Seminar: Mathematical Statistics	2
STAT:7990	Reading Research [e]	4
Data science concentration area course [f]		3
	Hours	**9**
Fourth Year		
Fall		
STAT:7990	Reading Research [e]	4
	Hours	**4**
Spring		
STAT:7990	Reading Research [e]	4
	Hours	**4**
Fifth Year		
Fall		
STAT:7990	Reading Research [e]	4
	Hours	**4**
Spring		
STAT:7990	Reading Research [e]	4
Exam: Doctoral Final Exam [g]		
	Hours	**4**
	Total Hours	**76**

a Students must complete specific requirements in the University of Iowa Graduate College after program admission. Refer to the Graduate College website and the Manual of Rules and Regulations for more information.

b Two consecutive enrollments are required.

c Students must complete two s.h. of STAT:6990 that are related to their application and career interests under an advisor's supervision. Students typically register for the course in the fall and spring semesters of the second year for 1 s.h. each; they may complete it earlier if ready. Students must present orally in a Statistics Student Organization meeting and earn a satisfactory grade from the advisor's evaluation of the work and presentation.

d Within 12 months of passing the PhD qualifying procedure, the candidate should present to the committee a written and oral prospectus, which serves as the PhD comprehensive exam. See the General Catalog and department website for specifics.

e Students must complete at least 24 s.h. of STAT:7990.

f Students must complete a minimum of two courses (6 s.h.); see the General Catalog for list of approved courses. Work with faculty advisor to determine appropriate coursework and sequence.

g Dissertation defense. Failure to successfully defend the dissertation within 48 months of passing the PhD qualifying procedure or within five years of starting the graduate program at the University of Iowa, whichever comes first, will jeopardize the continuation of a student's financial support.