

Spring courses

Courses for MS students

From class #1:

Year	Semester	Activities
1	Fall	STAT 810: Alpha Seminar STAT 821: Statistical Methods I STAT 850: Computing Tools for Statisticians STAT 882: Mathematical Statistics I STAT 892*: TA Prep
	Spring	STAT 822: Statistical Methods II STAT 883: Mathematical Statistics II Elective Form Supervisory Committee Submit Memorandum of Courses
2	Fall	STAT 823: Statistical Methods III STAT 825: Principles of Statistical Consulting and Interdisciplinary Collaboration Elective
	Spring	Electives MS Comprehensive Exam

*Required course for TAs only

Potential courses from the Department of Statistics:

▽ STAT 843 - Next-Generation Sequencing and Systems Biology

Class	Section	Days & Times	Room	Instructor	Meeting Dates	Status
<u>1857</u>	<u>001-LEC</u> <u>Regular</u>	Tu 12:30PM - 1:45PM	Avery Hall 117	Istvan Ladunga	01/09/2017 - 05/05/2017	

Class	Section	Days & Times	Room	Instructor	Meeting Dates	Status
<u>25965</u>	<u>002-LEC</u> <u>Regular</u>	Th 2:30PM - 3:45PM	Avery Hall 117	Staff	01/09/2017 - 05/05/2017	

▽ STAT 874 - Nonparametric Statistics

Class	Section	Days & Times	Room	Instructor	Meeting Dates	Status
<u>17565</u>	<u>001-LEC</u> <u>Regular</u>	MoWeFr 10:00AM - 10:50AM	TBA	Yumou Qiu	01/09/2017 - 05/05/2017	

▽ STAT 875 - Categorical Data Analysis

Class	Section	Days & Times	Room	Instructor	Meeting Dates	Status
<u>2105</u>	<u>003-LEC</u> <u>Regular</u>	TuTh 2:30PM - 3:45PM	Keim Hall 214	Christopher R Bilder	01/09/2017 - 05/05/2017	

▽ STAT 892 - Topics in Statistics and Probability

Class	Section	Days & Times	Room	Instructor	Meeting Dates	Status
<u>25950</u>	<u>001-LEC</u> <u>Regular</u>	MoWe 1:00PM - 2:00PM	Hardin Hall 49	Istvan Ladunga	01/09/2017 - 05/05/2017	

Topic: Computing for Big Data in Stat

Comments:

- Talk to the instructor about a course you are interested in before registering for it!
- STAT 843
 - http://compbio.unl.edu/courses/syllabus_stat843_102315.pdf
 - Undergraduate cross-listing
 - Heavy emphasis on understanding DNA/RNA
- STAT 874
 - “The course will be theoretically based”
 - Prerequisite: STAT 882

- “Kernel estimation for density functions, kernel estimation for regression (local linear regression), and probably some simple bootstrap theories”
- Possibly rank-based tests
- STAT 875
 - <http://www.chrisbilder.com/stat875/index2.html>
 - Blended learning teaching approach
 - Application and R aspects of categorical data analysis, differentiate it from STAT 821-2
 - Mix of statistics and non-statistics majors
 - *Analysis of Categorical Data with R* textbook; website: <http://www.chrisbilder.com/categorical>
- STAT 892
 - 2 credit hours
 - Some non-stat topics from data science
 - Seminar given earlier in the semester on it

Courses for PhD students

From class #1:


Year	Semester	Activities
1	Fall	STAT 980: Advanced Probability Theory STAT 900-level course Elective Form Supervisory Committee
	Spring	STAT 982: Statistical Theory I STAT 983: Statistical Theory II Elective
2	Fall	STAT 984 ^{**} : Asymptotics and Applications STAT 900-level course STAT 999: Doctoral Dissertation
	Spring	STAT 950: Computational Statistics I STAT 999: Doctoral Dissertation PhD Comprehensive Exam Elective
3	Fall	STAT 999: Doctoral Dissertation
	Spring	STAT 999: Doctoral Dissertation Final Oral Exam

^{**}Students may substitute STAT 981: Advanced Probability Measures

Potential courses from the Department of Statistics:

- Courses previously discussed
- Some professors allow students to take an 800-level course as STAT 992 provided they complete extra work
- Advanced Experimental Design - Continues STAT 802 and experimental design learned in STAT 821-822

▼ **STAT 902 - Advanced Experimental Design**

Class	Section	Days & Times	Room	Instructor	Meeting Dates	Status
<u>17566</u>	<u>001-LEC</u> <u>Regular</u>	TuTh 9:30AM - 10:45AM	Animal Science A222	Kent Millar Eskridge	01/09/2017 - 05/05/2017	

- Advanced Statistical Consulting and Interdisciplinary Collaboration - Should have STAT 825 first

Courses from other departments

Talk to your temporary advisor and the instructor prior to registering for a course from another department! Below are some courses that may be o.k. to take:

- Computer Science
 - CSCI 823: Design and Analysis of Algorithms
 - CSCI 970: Pattern Recognition
- Economics
 - ECON 917: Econometrics I (may be too basic)
- Educational Psychology
 - ~~EDPS 941~~: Intermediate Statistics: Experimental Methods (too basic)
 - EDPS 971: Structural Equation Modeling
- Mathematics
 - MATH 828: Principles of Operations Research (undergraduate cross-listing; everyone will have prerequisites)
- Psychology
 - PSYC 851: Multivariate Research Design and Data Analysis (STAT 821, 822, 823 will cover these topics)
- Survey Research and Methodology
 - SRAM 921: Total Survey Error (no prerequisites listed)
 - SRAM 922: Randomized and Nonrandomized Research Design (no prerequisites listed)
- UNMC Biostatistics - Official course listing is not available yet; below is the projected listing
 - BIOS 835: Design of Medical Health Studies (online)

- BIOS 825: Correlated Data Analysis (online) - may have significant overlap with STAT 822
- UNMC Epidemiology - Official course listing is not available yet; below is the projected listing
 - EPI 820: Epidemiology in Public Health (online; may be too basic but prerequisite for many Epi courses)
 - EPI 825: Infectious Disease Epidemiology (Friday 1:00-3:40PM)
- UNO - Course listing is not available yet

UNL course descriptions are available at <https://bulletin.unl.edu/courses>.