

# 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 831 - Spatial Statistics						
Class	Section	Days & Times	Room	Instructor	Meeting Dates	Status
17204	001-LEC Regular	MoWeFr 12:00PM - 12:50PM	Keim Hall 214	Yuzhen Zhou	01/13/2020 - 05/08/2020	
Notes: This is a combined section class						
▼ STAT 877 - Introduction to Mixed Model Analysis						
Class	Section	Days & Times	Room	Instructor	Meeting Dates	Status
17392	001-LEC Regular	MoWe 1:00PM - 2:15PM	Hardin Hall 49	Kathryn Jo Hanford	01/13/2020 - 05/08/2020	

## Topics courses (STAT 892):

Class	Section	Days & Times	Room	Instructor	Meeting Dates	Status
2168	007-LEC Regular	TuTh 2:30PM - 3:45PM	Keim Hall 214	Qi Zhang	01/13/2020 - 05/08/2020	
Topic: Integrative Data Sci Plnt Phen						
Class	Section	Days & Times	Room	Instructor	Meeting Dates	Status
2472	008-LEC Regular	TuTh 11:00AM - 12:15PM	Hardin Hall 49	Souparno Ghosh	01/13/2020 - 05/08/2020	
Topic: Intro to Data Mining & Machine						

## Comments:

- Talk to the instructor about a course you are interested in before registering for it!
- STAT 831
  - Mixed majors course
  - STAT 821 is prerequisite
  - Model data that is spatially correlated
- STAT 877 is for non-statistics majors; much of this content is covered in STAT 821-3
- Integrated Data Science for Plant Phenotyping
  - Team taught course - Qi Zhang from our department and faculty from animal science, biochemistry, agronomy/horticulture, computer science, and biological sciences
  - Statistics students working with Qi Zhang take it
  - Will need to learn the plant science as you take the course

- Introduction to Data Mining & Machine Learning – This will be STAT 885 in the future. The course is meant for 2nd year MS and above students

## *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 - All of these are cross-listed as undergraduate courses
  - CSCE 811: Data Modeling for Systems Development
  - CSCE 823: Design and Analysis of Algorithms
  - CSCE 874: Introduction to Data Mining
- Economics
  - ECON 917: Econometrics I (may be too basic)
- Educational Psychology
  - ~~EDPS 941~~: Intermediate Statistics: Experimental Methods (too basic)
  - EDPS 971: Structural Equation Modeling
  - EDPS 972: Multivariate Analysis (too similar with our courses?)
  - EDPS 980: Item Response Theory (may not have prerequisite)
- Mathematics - All of these are cross-listed as undergraduate courses and everyone will likely have the prerequisites
  - MATH 828: Principles of Operations Research
  - MATH 833: Nonlinear Optimization
  - MATH 840: Numerical Analysis I
  - MATH 889: Stochastic Processes
- Psychology
  - ~~PSYC 851~~: Multivariate Research Design and Data Analysis (too similar with topics in our courses?)

- 
- PSYC 948: Structural Equation Modeling in the Behavioral Sciences
  - Supply Chain Management and Analytics (often referred to as “business analytics” at other universities)
    - Only undergraduate courses are listed in the course schedule; however, a number of graduate courses are given in the course catalog at <https://catalog.unl.edu/graduate-professional/courses/scma>. For example, “SCMA 851 Predictive Analytics” may be of interest to statistics students.
  - Survey Research and Methodology - None
  - UNMC Biostatistics - Official course listing is not available yet; below is the projected listing
    - BIOS 810: Introduction to SAS Programming (online only)
      - some overlap with STAT 850
    - BIOS 825: Correlated Data Analysis (in-class and online) - may have significant overlap with STAT 822
    - BIOS 835: Design of Medical Health Studies (in-class and online)
    - For the fall semester, look for BIOS 824, Survival Data Analysis
  - 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 Department of Mathematics - All of these are cross-listed as undergraduate courses and everyone will likely have the prerequisites

- STAT 8426: Exploratory Data Visualization and Quantification
- STAT 8446: Time Series Analysis
- STAT 8456: Introduction to Machine Learning and Data Mining (likely too close to our topics course)
- UNO Information Systems & Quantitative Analysis (ISQA)
  - ISQA 8700: Data Mining: Theory and Practice
  - ISQA 8750: Data Visualization: Storytelling with Data (no time or course description available)

UNL course descriptions are available at <https://catalog.unl.edu/graduate-professional>.