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	Kelm 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	Kelm 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`.