The minimum graduate admission requirements are:

**Admission Requirements**

- A bachelor’s degree or recognized equivalent from an accredited institution;
- A satisfactory scholastic average, usually a minimum grade-point average (GPA) of 3.0 (B) on a 4.0 scale; and
- Enough undergraduate training to do graduate work in your chosen field.

For a list of requirements to complete your graduate application, please see the Graduate Division’s Admissions Requirements page (https://grad.berkeley.edu/admissions/steps-to-apply/requirements/). It is also important to check with the program or department of interest, as they may have additional requirements specific to their program of study and degree. Department contact information can be found here (http://guide.berkeley.edu/graduate/degree-programs/).

**Where to apply?**

Visit the Berkeley Graduate Division application page (http://grad.berkeley.edu/admissions/apply/).

**Admission to the Program**

In addition to the minimum requirements listed above, the following materials are required for admission:

1. The Online Graduate Application for Admission and Fellowships (http://grad.berkeley.edu/admissions/apply/):
   - Statement of Purpose (http://grad.berkeley.edu/admissions/state_purpose.shtml): Why are you applying to this program? What are your expectations for this degree? Where do you want this degree to take you, professionally and personally? How will your professional and personal experiences add value to the program?
   - Personal History (http://www.grad.berkeley.edu/admissions/personal_statement.shtml): What past experiences made you decide to go into this field? How will your personal history help you succeed in this program and your future goals?
2. Descriptive List of Upper Division/Graduate Statistics and Math Coursework: Please include a Descriptive List of Upper Division/Graduate Statistics and Math Coursework. List the department, course number and title, instructor, grade, school, texts used and subject matter covered for all upper division and graduate level statistics and math courses you have taken. You should also include courses outside statistics and math departments that have a significant quantitative component. This list should be uploaded as a PDF document via the online application.
3. Resume: Include a full resume/CV listing your experience and education.
   - The application process is entirely online. All supplemental materials such as transcripts and the descriptive list of courses must be uploaded as PDF files via the online application by the application deadline. Please do not mail copies of your transcripts, statement of purpose, letters of recommendations, GRE and TOEFL scores, resumes, or any other documents as they will not be included with your application.
   - The GRE is no longer required for applicants applying to the MA or PhD program. For the PhD program, while it is not required, if you wish to include your GRE Math Subject test you will have the option to do so.

**Normative Time Requirements**

**Normative Time to Advancement**

In the first year, students must perform satisfactorily in preliminary course work. In the summer, students are required to embark on a short-term
research project, internship, graduate student instructorship, reading course, or on another research activity.

In the second and third years, students continue to take courses, serve as a graduate student instructor, find an area for the oral qualifying exam, a potential thesis adviser and pass the oral qualifying exam in the spring semester of second year or in the fall semester of third year. With the successful passing of the exam, students then advance to candidacy.

**Normative Time in Candidacy**

In the third and fourth years, students finalize a thesis topic, continue to conduct research and make satisfactory progress.

By the end of the fifth year, students are expected to finish their thesis and give a lecture based on their work in a department seminar.

**Total Normative Time**

Total normative time is five years.

**Time in Advancement**

**Curriculum**

During their first year, students are normally expected to take four of the following seven core PhD courses in Probability, Theoretical Statistics, and Applied Statistics:

<table>
<thead>
<tr>
<th>Courses Required</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 204 Probability for Applications</td>
<td>4</td>
</tr>
<tr>
<td>STAT C205A Probability Theory</td>
<td>4</td>
</tr>
<tr>
<td>STAT C205B Probability Theory</td>
<td>4</td>
</tr>
<tr>
<td>STAT 210A Theoretical Statistics</td>
<td>4</td>
</tr>
<tr>
<td>STAT 210B Theoretical Statistics</td>
<td>4</td>
</tr>
<tr>
<td>STAT 215A Statistical Models: Theory and Application</td>
<td>4</td>
</tr>
<tr>
<td>STAT 215B Statistical Models: Theory and Application</td>
<td>4</td>
</tr>
</tbody>
</table>

A member of the PhD program committee may consent to substitute courses at a comparable level in other disciplines for some of these departmental graduate courses. These requirements can also be altered by the PhD program committee.

Students entering the program before 2022 are required to take five additional graduate courses beyond the four required in the first year, resulting in a total of nine graduate courses required for completion of their PhD. In their second year, students are required to take three graduate courses, at least two of them from the department offerings, and in their third year, they are required to take at least two graduate courses. Students are allowed to change the timing of these five courses with approval of their faculty mentor. Of the nine required graduate courses, students are required to take for credit a total of 24 semester hours of courses offered by the Statistics department numbered 204-272 inclusive. The Head Graduate Advisor (in consultation with the faculty mentor and after submission of a graduate student petition) may consent to substitute courses at a comparable level in other disciplines for some of these departmental graduate courses. In addition, the HGA may waive part of this unit requirement.

Starting with the cohort entering in the 2022-23 academic year, students are required to take at least three additional graduate courses beyond the four required in the first year, resulting in a total of seven graduate courses required for completion of their PhD. Of the seven required graduate courses, five of these courses must be from courses offered by the Statistics department and numbered 204-272, inclusive. With these reduced requirements, there is an expectation of very few waivers from the HGA. We emphasize that these are minimum requirements, and we expect that students will take additional classes of interest, for example on a S/U basis, to further their breadth of knowledge.

For courses to count toward the coursework requirements students must receive at least a B+ in the course (courses taken S/U do not count, except for STAT 272 which is only offered S/U). Courses that are research credits, directed study, reading groups, or departmental seminars do not satisfy coursework requirements (for courses offered by the Statistics department the course should be numbered 204-272 to satisfy the requirements). Upper-division undergraduate courses in other departments can be counted toward course requirements with the permission of the Head Graduate Advisor. This will normally only be approved if the courses provide necessary breadth in an application area relevant to the student’s thesis research.

**Qualifying Examination**

The oral qualifying examination is meant to determine whether the student is ready to enter the research phase of graduate studies. It consists of a 50-minute lecture by the student on a topic selected jointly by the student and the thesis advisor. The examination committee consists of at least four faculty members to be approved by the department. At least two members of the committee must consist of faculty from Statistics and must be members of the Academic Senate. The chair must be a member of the student’s degree-granting program.

**Time in Candidacy**

**Advancement**

Advancing to candidacy means a student is ready to write a doctoral dissertation. Students must apply for advancement to candidacy once they have successfully passed the qualifying examination.

**Dissertation Presentation/Finishing Talk**

The Ph.D. degree is granted upon completion of an original thesis acceptable to a committee of at least three faculty members. The majority or at least half of the committee must consist of faculty from Statistics and must be members of the Academic Senate. The thesis should be presented at an appropriate seminar in the department prior to filing with the Dean of the Graduate Division.

**Required Professional Development**

Students enrolled in the graduate program before fall 2016 are required to serve as a Graduate Student Instructor (http://statistics.berkeley.edu/employment/gsi-and-reader/) (GSI) for a minimum of 20 hours (equivalent to a 50% GSI appointment) during a regular academic semester by the end of their third year in the program.

Effective with the fall 2016 entering class, students are required to serve as a Graduate Student Instructor (http://statistics.berkeley.edu/employment/gsi-and-reader/) (GSI) for a minimum of two regular academic semesters and complete at least 40 hours prior to graduation (20 hours is equivalent to a 50% GSI appointment for a semester) for a course numbered 150 and above. Exceptions to this policy are routinely made by the department.
Unit Requirements

In order to obtain the MA in Statistics, admitted MA students must complete a minimum of 24 units of courses and pass a comprehensive examination.

In extremely rare cases, a thesis option may be considered by the MA advisers. Typically, this will be when either the option has been offered to the student at the time of admission, or if the student arrives with substantial progress in research in an area of interest to our faculty.

Curriculum

Courses Required

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 201A</td>
<td>Introduction to Probability at an Advanced Level</td>
<td>4</td>
</tr>
<tr>
<td>STAT 201B</td>
<td>Introduction to Statistics at an Advanced Level</td>
<td>4</td>
</tr>
<tr>
<td>STAT 243</td>
<td>Introduction to Statistical Computing</td>
<td>4</td>
</tr>
<tr>
<td>STAT 230A</td>
<td>Linear Models</td>
<td>4</td>
</tr>
<tr>
<td>STAT 222</td>
<td>Masters of Statistics Capstone Project</td>
<td>4</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

The capstone will consist of a team-based learning experience that will give students the opportunity to work on a real-world problem and carry out a substantial data analysis project. It will culminate with a written report and an oral presentation of findings. The elective will depend on the student’s interests and will be decided in consultation with advisers.

Capstone/Thesis (Plan I)

If approved for the thesis option, you must find three faculty to be on your thesis committee. Though not required, it is strongly encouraged that one of the faculty members is from outside the Statistics Department. Both you and the thesis committee chair must agree on the topic of your thesis. Further information on how to file a thesis is available on the MA program web page (http://statistics.berkeley.edu/programs/graduate/masters/).

Capstone/Comprehensive Exam (Plan II)

On a Saturday shortly after the spring semester begins in January, students will take a comprehensive exam on the theoretical foundations of statistics. There will be a 3-hour exam on the material of STAT 201A and STAT 201B. All students taking the exam will receive copies of previous examinations.

Statistics

Expand all course descriptions [+]Collapse all course descriptions [-]
STAT C200C Principles and Techniques of Data Science 4 Units
Terms offered: Fall 2023, Spring 2023, Fall 2022, Spring 2022, Spring 2021, Spring 2020
Explores the data science lifecycle: question formulation, data collection and cleaning, exploratory analysis, visualization, statistical inference, prediction, and decision-making. Focuses on quantitative critical thinking and key principles and techniques: languages for transforming, querying and analyzing data; algorithms for machine learning methods: regression, classification and clustering; principles of informative visualization; measurement error and prediction; and techniques for scalable data processing. Research term project.
Principles and Techniques of Data Science: Read More [+]

Rules & Requirements
Prerequisites: COMPSCI C8 / INFO C8 / STAT C8 or ENGIN 7; and either COMPSCI 61A or COMPSCI 88. Corequisites: MATH 54 or EECS 16A
Credit Restrictions: Students will receive no credit for DATA C200/COMPSCI C200A/STAT C200C after completing DATA C100.

Hours & Format
Fall and/or spring: 8 weeks - 6 hours of lecture, 2 hours of discussion, and 2 hours of laboratory per week
15 weeks - 3 hours of lecture, 1 hour of discussion, and 1 hour of laboratory per week
Summer: 8 weeks - 6 hours of lecture, 2 hours of discussion, and 2 hours of laboratory per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

STAT 201A Introduction to Probability at an Advanced Level 4 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021
Distributions in probability and statistics, central limit theorem, Poisson processes, modes of convergence, transformations involving random variables.
Introduction to Probability at an Advanced Level: Read More [+]

Rules & Requirements
Prerequisites: Undergraduate probability at the level of Statistics 134, multivariable calculus (at the level of Berkeley’s Mathematics 53) and linear algebra (at the level of Berkeley’s Mathematics 54)
Credit Restrictions: Students will receive no credit for STAT 201A after completing STAT 200A.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

STAT 201B Introduction to Statistics at an Advanced Level 4 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021
Estimation, confidence intervals, hypothesis testing, linear models, large sample theory, categorical models, decision theory.
Introduction to Statistics at an Advanced Level: Read More [+]

Rules & Requirements
Prerequisites: Undergraduate probability at the level of Statistics 134, multivariable calculus (at the level of Berkeley’s Mathematics 53) and linear algebra (at the level of Berkeley’s Mathematics 54)
Credit Restrictions: Students will receive no credit for Statistics 201B after completing Statistics 200B.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

Interpretation: The document contains information about course offerings, requirements, and formats for courses in Statistics and Data Science at a university level. The courses cover various aspects of data science, probability, and statistics, including the data science lifecycle, question formulation, data collection, visualization, statistical inference, and decision-making. The document also includes details on prerequisites, credit restrictions, and course formats for both fall and spring terms, as well as summer sessions.
STAT 204 Probability for Applications 4 Units
Terms offered: Fall 2023, Fall 2019, Spring 2017
A treatment of ideas and techniques most commonly found in the applications of probability: Gaussian and Poisson processes, limit theorems, large deviation principles, information, Markov chains and Markov chain Monte Carlo, martingales, Brownian motion and diffusion. Probability for Applications: Read More [+]

Rules & Requirements
Credit Restrictions: Students will receive no credit for Statistics 204 after completing Statistics 205A-205B.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Instructor: Evans
Probability for Applications: Read Less [-]

STAT C205A Probability Theory 4 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021, Fall 2019
The course is designed as a sequence with Statistics C205B/ Mathematics C218B with the following combined syllabus. Measure theory concepts needed for probability. Expectation, distributions. Laws of large numbers and central limit theorems for independent random variables. Characteristic function methods. Conditional expectations, martingales and martingale convergence theorems. Markov chains. Stationary processes. Brownian motion.

Probability Theory: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Also listed as: MATH C218A
Probability Theory: Read Less [-]

STAT C205B Probability Theory 4 Units
Terms offered: Spring 2023, Spring 2022, Spring 2021
The course is designed as a sequence with with Statistics C205A/ Mathematics C218A with the following combined syllabus. Measure theory concepts needed for probability. Expectation, distributions. Laws of large numbers and central limit theorems for independent random variables. Characteristic function methods. Conditional expectations, martingales and martingale convergence theorems. Markov chains. Stationary processes. Brownian motion.

Probability Theory: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Also listed as: MATH C218B
Probability Theory: Read Less [-]

STAT C206A Advanced Topics in Probability and Stochastic Process 3 Units
Terms offered: Fall 2020, Fall 2016, Fall 2015, Fall 2014
The topics of this course change each semester, and multiple sections may be offered. Advanced topics in probability offered according to students demand and faculty availability.

Advanced Topics in Probability and Stochastic Process: Read More [+]

Rules & Requirements
Prerequisites: Statistics C205A-C205B or consent of instructor
Repeat rules: Course may be repeated for credit with instructor consent.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Also listed as: MATH C223A
Advanced Topics in Probability and Stochastic Process: Read Less [-]
STAT C206B Advanced Topics in Probability and Stochastic Processes 3 Units
Terms offered: Spring 2023, Spring 2022, Spring 2021
The topics of this course change each semester, and multiple sections may be offered. Advanced topics in probability offered according to students demand and faculty availability. Advanced Topics in Probability and Stochastic Processes: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit with instructor consent.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

Also listed as: MATH C223B

Advanced Topics in Probability and Stochastic Processes: Read Less [-]

STAT 210A Theoretical Statistics 4 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021
An introduction to mathematical statistics, covering both frequentist and Bayesian aspects of modeling, inference, and decision-making. Topics include statistical decision theory; point estimation; minimax and admissibility; Bayesian methods; exponential families; hypothesis testing; confidence intervals; small and large sample theory; and M-estimation. Theoretical Statistics: Read More [+]

Rules & Requirements
Prerequisites: Linear algebra, real analysis, and a year of upper division probability and statistics.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

Theoretical Statistics: Read Less [-]

STAT 210B Theoretical Statistics 4 Units
Terms offered: Spring 2023, Spring 2022, Spring 2021
Introduction to modern theory of statistics; empirical processes, influence functions, M-estimation, U and V statistics and associated stochastic decompositions; non-parametric function estimation and associated minimax theory; semiparametric models; Monte Carlo methods and bootstrap methods; distribution-free and equivariant procedures; topics in machine learning. Topics covered may vary with instructor. Theoretical Statistics: Read More [+]

Rules & Requirements
Prerequisites: Statistics 210A and a graduate level probability course; a good understanding of various notions of stochastic convergence.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Theoretical Statistics: Read Less [-]

STAT 212A Topics in Theoretical Statistics 3 Units
Terms offered: Spring 2021, Fall 2015, Fall 2012
This course introduces the student to topics of current research interest in theoretical statistics. Recent topics include information theory, multivariate analysis and random matrix theory, high-dimensional inference. Typical topics have been model selection; empirical and point processes; the bootstrap, stochastic search, and Monte Carlo integration; information theory and statistics; semi- and non-parametric modeling; time series and survival analysis. Topics covered may vary with instructor. Theoretical Statistics: Read More [+]

Rules & Requirements
Prerequisites: 210 or 205 and 215.
Repeat rules: Course may be repeated for credit with instructor consent.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Formerly known as: 216A-216B and 217A-217B
Topics in Theoretical Statistics: Read Less [-]
STAT 212B Topics in Theoretical Statistics 3 Units
Terms offered: Spring 2016
This course introduces the student to topics of current research interest in theoretical statistics. Recent topics include information theory, multivariate analysis and random matrix theory, high-dimensional inference. Typical topics have been model selection; empirical and point processes; the bootstrap, stochastic search, and Monte Carlo integration; information theory and statistics; semi- and non-parametric modeling; time series and survival analysis.
Topics in Theoretical Statistics: Read More [+]
Rules & Requirements
Prerequisites: 210 or 205 and 215
Repeat rules: Course may be repeated for credit with instructor consent.
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Formerly known as: 216A-216B and 217A-217B
Topics in Theoretical Statistics: Read Less [-]

STAT 215A Statistical Models: Theory and Application 4 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021
Applied statistics with a focus on critical thinking, reasoning skills, and techniques. Hands-on-experience with solving real data problems with high-level programming languages such as R. Emphasis on examining the assumptions behind standard statistical models and methods. Exploratory data analysis (e.g., graphical data summaries, PCAs, clustering analysis). Model formulation, fitting, and validation and testing. Linear regression and generalizations (e.g., GLMs, ridge regression, lasso).
Statistical Models: Theory and Application: Read More [+]
Rules & Requirements
Prerequisites: Linear algebra, calculus, upper division probability and statistics, and familiarity with high-level programming languages. Statistics 133, 134, and 135 recommended
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week
Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Formerly known as: Statistics 215A or consent of instructor
Statistical Models: Theory and Application: Read Less [-]

STAT 215B Statistical Models: Theory and Application 4 Units
Terms offered: Spring 2023, Spring 2022, Spring 2021
Course builds on 215A in developing critical thinking skills and the techniques of advanced applied statistics. Particular topics vary with instructor. Examples of possible topics include planning and design of experiments, ANOVA and random effects models, splines, classification, spatial statistics, categorical data analysis, survival analysis, and multivariate analysis.
Statistical Models: Theory and Application: Read More [+]
Rules & Requirements
Prerequisites: Statistics 215A or consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week
Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Statistical Models: Theory and Application: Read Less [-]

STAT 222 Masters of Statistics Capstone Project 4 Units
Terms offered: Spring 2023, Spring 2022, Spring 2021
The capstone project is part of the masters degree program in statistics. Students engage in professionally-oriented group research under the supervision of a research advisor. The research synthesizes the statistical, computational, economic, and social issues involved in solving complex real-world problems.
Masters of Statistics Capstone Project: Read More [+]
Rules & Requirements
Prerequisites: Statistics 201A-201B, 243. Restricted to students who have been admitted to the one-year Masters Program in Statistics beginning fall 2012 or later
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar and 1 hour of laboratory per week
Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Masters of Statistics Capstone Project: Read Less [-]
STAT 230A Linear Models 4 Units
Terms offered: Spring 2023, Spring 2022, Spring 2021
Theory of least squares estimation, interval estimation, and tests under the general linear fixed effects model with normally distributed errors. Large sample theory for non-normal linear models. Two and higher way layouts, residual analysis. Effects of departures from the underlying assumptions. Robust alternatives to least squares.

Linear Models: Read More [+]

Rules & Requirements
Prerequisites: Matrix algebra, a year of calculus, two semesters of upper division or graduate probability and statistics

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

STAT 232 Experimental Design 4 Units
Terms offered: Spring 2023, Spring 2022, Fall 2018
This course will review the statistical foundations of randomized experiments and study principles for addressing common setbacks in experimental design and analysis in practice. We will cover the notion of potential outcomes for causal inference and the Fisherian principles for experimentation (randomization, blocking, and replications). We will also cover experiments with complex structures (clustering in units, factorial design, hierarchy in treatments, sequential assignment, etc). We will also address practical complications in experiments, including noncompliance, missing data, and measurement error.

Experimental Design: Read More [+]

Rules & Requirements
Prerequisites: Statistics 134 and Statistics 135 and experience with Software R, or consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of laboratory per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

STAT 238 Bayesian Statistics 3 Units
Terms offered: Fall 2016
Bayesian methods and concepts: conditional probability, one-parameter and multiparameter models, prior distributions, hierarchical and multi-level models, predictive checking and sensitivity analysis, model selection, linear and generalized linear models, multiple testing and high-dimensional data, mixtures, non-parametric methods. Case studies of applied modeling. In-depth computational implementation using Markov chain Monte Carlo and other techniques. Basic theory for Bayesian methods and decision theory. The selection of topics may vary from year to year.

Bayesian Statistics: Read More [+]

Objectives & Outcomes
Course Objectives:
- develop Bayesian models for new types of data
- implement Bayesian models and interpret the results
- read and discuss Bayesian methods in the literature
- select and build appropriate Bayesian models for data to answer research questions
- understand and describe the Bayesian perspective and its advantages and disadvantages compared to classical methods

Rules & Requirements
Prerequisites: Probability and mathematical statistics at the level of Stat 134 and Stat 135 or, ideally, Stat 201A and Stat 201B

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of laboratory per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

Experimental Design: Read Less [-]
STAT 239A The Statistics of Causal Inference in the Social Science 4 Units
Terms offered: Fall 2015, Fall 2014
Approaches to causal inference using the potential outcomes framework. Covers observational studies with and without ignorable treatment assignment, randomized experiments with and without noncompliance, instrumental variables, regression discontinuity, sensitivity analysis and randomization inference. Applications are drawn from a variety of fields including political science, economics, sociology, public health and medicine.

Rules & Requirements
Prerequisites: At least one graduate matrix based multivariate regression course in addition to introductory statistics and probability

Hours & Format
Fall and/or spring: 15 weeks - 3-3 hours of lecture and 1-2 hours of discussion per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade. This is part one of a year long series course. A provisional grade of IP (in progress) will be applied and later replaced with the final grade after completing part two of the series.

Instructor: Sekhon

STAT 239B Quantitative Methodology in the Social Sciences Seminar 4 Units
Terms offered: Spring 2016, Spring 2015
A seminar on successful research designs and a forum for students to discuss the research methods needed in their own work, supplemented by lectures on relevant statistical and computational topics such as matching methods, instrumental variables, regression discontinuity, and Bayesian, maximum likelihood and robust estimation. Applications are drawn from political science, economics, sociology, and public health. Experience with R is assumed.

Rules & Requirements
Prerequisites: Statistics 239A or equivalent

Hours & Format
Fall and/or spring: 15 weeks - 3-3 hours of lecture and 1-2 hours of discussion per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade. This is part two of a year long series course. Upon completion, the final grade will be applied to both parts of the series.

STAT C239A The Statistics of Causal Inference in the Social Science 4 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
Approaches to causal inference using the potential outcomes framework. Covers observational studies with and without ignorable treatment assignment, randomized experiments with and without noncompliance, instrumental variables, regression discontinuity, sensitivity analysis and randomization inference. Applications are drawn from a variety of fields including political science, economics, sociology, public health and medicine.

Rules & Requirements
Prerequisites: At least one graduate matrix based multivariate regression course in addition to introductory statistics and probability

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of discussion per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

Also listed as: POL SCI C236A

The Statistics of Causal Inference in the Social Science: Read Less [-]

STAT C239B Quantitative Methodology in the Social Sciences Seminar 4 Units
Terms offered: Spring 2018, Spring 2017
A seminar on successful research designs and a forum for students to discuss the research methods needed in their own work, supplemented by lectures on relevant statistical and computational topics such as matching methods, instrumental variables, regression discontinuity, and Bayesian, maximum likelihood and robust estimation. Applications are drawn from political science, economics, sociology, and public health. Experience with R is assumed.

Rules & Requirements
Prerequisites: Statistics 239A or equivalent

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of discussion per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

Also listed as: POL SCI C236B

Quantitative Methodology in the Social Sciences Seminar: Read Less [-]
**STAT 240 Nonparametric and Robust Methods 4 Units**
Terms offered: Spring 2023, Spring 2021, Fall 2017
Standard nonparametric tests and confidence intervals for continuous and categorical data; nonparametric estimation of quantiles; robust estimation of location and scale parameters. Efficiency comparison with the classical procedures.

Prerequisites: A year of upper division probability and statistics

**STAT C241A Statistical Learning Theory 3 Units**
Terms offered: Fall 2023, Fall 2021, Fall 2020

**STAT C241B Advanced Topics in Learning and Decision Making 3 Units**
Terms offered: Spring 2023, Spring 2022, Spring 2017

**STAT 243 Introduction to Statistical Computing 4 Units**
Terms offered: Fall 2023, Fall 2022, Fall 2021
Concepts in statistical programming and statistical computation, including programming principles, data and text manipulation, parallel processing, simulation, numerical linear algebra, and optimization.
STAT 244 Statistical Computing 4 Units
Terms offered: Spring 2011, Spring 2010, Spring 2009
Algorithms in statistical computing: random number generation, generating other distributions, random sampling and permutations. Matrix computations in linear models. Non-linear optimization with applications to statistical procedures. Other topics of current interest, such as issues of efficiency, and use of graphics.

Rules & Requirements
Prerequisites: Knowledge of a higher level programming language

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

STAT C245A Introduction to Modern Biostatistical Theory and Practice 4 Units
Terms offered: Spring 2023, Spring 2022, Spring 2021
Course covers major topics in general statistical theory, with a focus on statistical methods in epidemiology. The course provides a broad theoretical framework for understanding the properties of commonly-used and more advanced methods. Emphasis is on estimation in nonparametric models in the context of contingency tables, regression (e.g., linear, logistic), density estimation and more. Topics include maximum likelihood and loss-based estimation, asymptotic linearity/normality, the delta method, bootstrapping, machine learning, targeted maximum likelihood estimation. Comprehension of broad concepts is the main goal, but practical implementation in R is also emphasized. Basic knowledge of probability/statistics and calculus are assumed.
Introduction to Modern Biostatistical Theory and Practice: Read More [+]

Rules & Requirements
Prerequisites: Statistics 200A (may be taken concurrently)

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Instructor: Hubbard
Also listed as: PB HLTH C240A

STAT C245B Biostatistical Methods: Survival Analysis and Causality 4 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021, Fall 2020
Analysis of survival time data using parametric and non-parametric models, hypothesis testing, and methods for analyzing censored (partially observed) data with covariates. Topics include marginal estimation of a survival function, estimation of a generalized multivariate linear regression model (allowing missing covariates and/or outcomes), estimation of a multiplicative intensity model (such as Cox proportional hazards model) and estimation of causal parameters assuming marginal structural models. General theory for developing locally efficient estimators of the parameters of interest in censored data models. Computing techniques, numerical methods, simulation and general implementation of biostatistical analysis techniques with emphasis on data applications.
Biostatistical Methods: Survival Analysis and Causality: Read More [+]

Rules & Requirements
Prerequisites: Statistics 200B (may be taken concurrently)

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Instructor: van der Laan
Also listed as: PB HLTH C240B

Biostatistical Methods: Survival Analysis and Causality: Read Less [-]
STAT C245C Biostatistical Methods: Computational Statistics with Applications in Biology and Medicine 4 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021
This course provides an introduction to computational statistics, with emphasis on statistical methods and software for addressing high-dimensional inference problems in biology and medicine. Topics include numerical and graphical data summaries, loss-based estimation (regression, classification, density estimation), smoothing, EM algorithm, Markov chain Monte-Carlo, clustering, multiple testing, resampling, hidden Markov models, in silico experiments.
Biostatistical Methods: Computational Statistics with Applications in Biology and Medicine: Read More [+]
Rules & Requirements
Prerequisites: Statistics 200A or equivalent (may be taken concurrently)
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week
Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Instructor: Dudoit
Also listed as: PB HLTH C240C

STAT C245D Biostatistical Methods: Computational Statistics with Applications in Biology and Medicine II 4 Units
Terms offered: Fall 2017, Fall 2015, Fall 2013
This course and Pb Hlth C240C/Stat C245C provide an introduction to computational statistics with emphasis on statistical methods and software for addressing high-dimensional inference problems that arise in current biological and medical research. The courses also discuss statistical computing resources, with emphasis on the R language and environment (www.r-project.org). Programming topics to be discussed include: data structures, functions, statistical models, graphical procedures, designing an R package, object-oriented programming, inter-system interfaces. The statistical and computational methods are motivated by and illustrated on data structures that arise in current high-dimensional inference problems in biology and medicine.
Biostatistical Methods: Computational Statistics with Applications in Biology and Medicine II: Read More [+]
Rules & Requirements
Prerequisites: Statistics 200A-200B or Statistics 201A-201B (may be taken concurrently) or consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week
Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Instructor: Dudoit
Also listed as: PB HLTH C240D

Biostatistical Methods: Computational Statistics with Applications in Biology and Medicine II: Read Less [-]
STAT C245F Statistical Genomics 4 Units
Terms offered: Spring 2022, Spring 2021, Spring 2020, Spring 2018, Spring 2017
Genomics is one of the fundamental areas of research in the biological sciences and is rapidly becoming one of the most important application areas in statistics. The first course in this two-semester sequence is Public Health C240E/Statistics C245E. This is the second course, which focuses on sequence analysis, phylogenetics, and high-throughput microarray and sequencing gene expression experiments. The courses are primarily intended for graduate students and advanced undergraduate students from the mathematical sciences.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Instructors: Dudoit, Huang, Nielsen, Song
Also listed as: PB HLTH C240F

STAT C247C Longitudinal Data Analysis 4 Units
Terms offered: Fall 2023, Fall 2021, Fall 2019
Course covers statistical issues surrounding estimation of effects using data on units followed through time. Course emphasizes a regression model approach for estimating associations of disease incidence modeling, continuous outcome data/linear models & longitudinal extensions to nonlinear models forms (e.g., logistic). Course emphasizes complexities that repeated measures has on the estimation process & opportunities it provides if data is modeled appropriately. Most time is spent on 2 approaches: mixed models based upon explicit (latent variable) maximum likelihood estimation of the sources of the dependence, versus empirical estimating equation approaches (generalized estimating equations). Primary focus is from the analysis side.

Objectives & Outcomes
Course Objectives: After successfully completing the course, you will be able to:

• frame data science questions relevant to longitudinal studies as the estimation of statistical parameters generated from regression,
• derive consistent statistical inference in the presence of correlated, repeated measures data using likelihood-based mixed models and estimating equation approaches (generalized estimating equations; GEE),
• implement the relevant methods using R.
• interpret the regression output, including both coefficients and variance components and

Rules & Requirements
Prerequisites: 142, 145, 241 or equivalent courses in basic statistics, linear and logistic regression

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Instructor: Hubbard
Also listed as: PB HLTH C242C
STAT 248 Analysis of Time Series 4 Units
Terms offered: Spring 2022, Spring 2021, Spring 2020
Frequency-based techniques of time series analysis, spectral theory, linear filters, estimation of spectra, estimation of transfer functions, design, system identification, vector-valued stationary processes, model building.

Analysis of Time Series: Read More [+]

Rules & Requirements

Prerequisites: 102 or equivalent

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Statistics/Graduate

Grading: Letter grade.

Analysis of Time Series: Read Less [-]

STAT 251 Stochastic Analysis with Applications to Mathematical Finance 3 Units
Terms offered: Spring 2008, Spring 2006, Spring 2005
The essentials of stochastic analysis, particularly those most relevant to financial engineering, will be surveyed: Brownian motion, stochastic integrals, Ito's formula, representation of martingales, Girsanov's theorem, stochastic differential equations, and diffusion processes.
Examples will be taken from the Black-Scholes-Merton theory of pricing and hedging contingent claims such as options, foreign market derivatives, and interest rate related contracts.

Stochastic Analysis with Applications to Mathematical Finance: Read More [+]

Rules & Requirements

Prerequisites: 205A or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Statistics/Graduate

Grading: Letter grade.

Stochastic Analysis with Applications to Mathematical Finance: Read Less [-]

STAT 254 Modern Statistical Prediction and Machine Learning 4 Units
Terms offered: Fall 2023, Spring 2023
This course is about statistical learning methods and their use for data analysis. Upon completion, students will be able to build baseline models for real world data analysis problems, implement models using programming languages and draw conclusions from models. The course will cover principled statistical methodology for basic machine learning tasks such as regression, classification, dimension reduction and clustering. Methods discussed will include linear regression, subset selection, ridge regression, LASSO, logistic regression, kernel smoothing methods, tree based methods, bagging and boosting, neural networks, Bayesian methods, as well as inference techniques based on resampling, cross validation and sample splitting.

Modern Statistical Prediction and Machine Learning: Read More [+]

Rules & Requirements

Prerequisites: STAT 135, the combination of DATA/STAT/COMPSCI C100 and DATA/STAT C140, or equivalent

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Statistics/Graduate

Grading: Letter grade.

Modern Statistical Prediction and Machine Learning: Read Less [-]

STAT 256 Causal Inference 4 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021
This course will focus on approaches to causal inference using the potential outcomes framework. It will also use causal diagrams at an intuitive level. The main topics are classical randomized experiments, observational studies, instrumental variables, principal stratification and mediation analysis. Applications are drawn from a variety of fields including political science, economics, sociology, public health, and medicine. This course is a mix of statistical theory and data analysis. Students will be exposed to statistical questions that are relevant to decision and policy making.

Causal Inference: Read More [+]

Rules & Requirements

Prerequisites: Statistics 201B or Statistics 210A

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Statistics/Graduate

Grading: Letter grade.

Causal Inference: Read Less [-]
STAT 259 Reproducible and Collaborative Statistical Data Science 4 Units
Terms offered: Spring 2023, Spring 2022, Spring 2021
A project-based introduction to statistical data analysis. Through case studies, computer laboratories, and a term project, students will learn practical techniques and tools for producing statistically sound and appropriate, reproducible, and verifiable computational answers to scientific questions. Course emphasizes version control, testing, process automation, code review, and collaborative programming. Software tools may include Bash, Git, Python, and LaTeX.
Reproducible and Collaborative Statistical Data Science: Read More [+]

Rules & Requirements
Prerequisites: Statistics 133, Statistics 134, and Statistics 135 (or equivalent)
Credit Restrictions: Students will receive no credit for Statistics 259 after taking Statistics 159.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

Reproducible and Collaborative Statistical Data Science: Read Less [-]

STAT 260 Topics in Probability and Statistics 3 Units
Terms offered: Spring 2023, Spring 2022, Fall 2021
Special topics in probability and statistics offered according to student demand and faculty availability.
Topics in Probability and Statistics: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

Topics in Probability and Statistics: Read Less [-]

STAT C261 Quantitative/Statistical Research Methods in Social Sciences 3 Units
Terms offered: Spring 2016, Spring 2015, Spring 2014
Selected topics in quantitative/statistical methods of research in the social sciences and particularly in sociology. Possible topics include: analysis of qualitative/categorical data; loglinear models and latent-structure analysis; the analysis of cross-classified data having ordered and unordered categories; measure, models, and graphical displays in the analysis of cross-classified data; correspondence analysis, association analysis, and related methods of data analysis.
Quantitative/Statistical Research Methods in Social Sciences: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

Also listed as: SOCIOL C271D
Quantitative/Statistical Research Methods in Social Sciences: Read Less [-]
STAT 265 Forecasting 3 Units
Terms offered: Not yet offered
Forecasting has been used to predict elections, climate change, and the spread of COVID-19. Poor forecasts led to the 2008 financial crisis. In our daily lives, good forecasting ability can help us plan our work, be on time to events, and make informed career decisions. This practically-oriented class will provide students with tools to make good forecasts, including Fermi estimates, calibration training, base rates, scope sensitivity, and power laws.
Forecasting: Read More [+]

Objectives & Outcomes
Course Objectives: We’ll discuss several historical instances of successful and unsuccessful forecasts, and practice making forecasts about our own lives, about current events, and about scientific progress.

Student Learning Outcomes: Formulate questions that are relevant to their own life or work.
Identify well-defined versus poorly-defined forecasting questions.
Provide forecasts that are well-calibrated.
Understand common forecasting pitfalls, such as improper independence assumptions, and how to identify and guard against them.
Understand how forecasts evolve across time in response to new information.
Use forecasts to inform decisions.
Utilize a variety of forecasting tools, such as base rates, to improve their forecasts.

Utilize and filter data across a variety of sources to inform their forecasts. Work in teams to improve forecasts.

Rules & Requirements
Prerequisites: Stat 134, Data/Stat C140, EECS 126, Math 106, IND ENG 172, or equivalent; and familiarity with Python; or consent of instructor. Strongly Recommended: Compsci 61A, Data/Compsci C88C, or equivalent

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.
Forecasting: Read Less [-]

STAT 272 Statistical Consulting 3 Units
Terms offered: Fall 2023, Fall 2022, Spring 2022
To be taken concurrently with service as a consultant in the department's drop-in consulting service. Participants will work on problems arising in the service and will discuss general ways of handling such problems. There will be working sessions with researchers in substantive fields and occasional lectures on consulting.

Statistical Consulting: Read More [+]

Rules & Requirements
Prerequisites: Some course work in applied statistics and permission of instructor

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of session per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
Statistical Consulting: Read Less [-]

STAT 278B Statistics Research Seminar 1 - 4 Units
Terms offered: Fall 2023, Spring 2023, Fall 2022
Special topics, by means of lectures and informational conferences.

Statistics Research Seminar: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 0 hours of seminar per week

Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
Statistics Research Seminar: Read Less [-]
STAT 298 Directed Study for Graduate Students 1 - 12 Units
Terms offered: Fall 2023, Spring 2023, Fall 2022
Special tutorial or seminar on selected topics.
Directed Study for Graduate Students: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Summer:
6 weeks - 1-16 hours of independent study per week
8 weeks - 1-12 hours of independent study per week
Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

Directed Study for Graduate Students: Read Less [-]

STAT 299 Individual Study Leading to Higher Degrees 0.5 - 12 Units
Terms offered: Fall 2023, Spring 2023, Fall 2022
Individual study
Individual Study Leading to Higher Degrees: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 2-36 hours of independent study per week
Summer:
6 weeks - 4-45 hours of independent study per week
8 weeks - 3-36 hours of independent study per week
10 weeks - 2.5-27 hours of independent study per week
Additional Details
Subject/Course Level: Statistics/Graduate
Grading: Letter grade.

Directed Study for Graduate Students: Read Less [-]

STAT 375 Professional Preparation: Teaching of Probability and Statistics 2 - 4 Units
Terms offered: Fall 2023, Spring 2023, Fall 2022
Discussion, problem review and development, guidance of laboratory classes, course development, supervised practice teaching.
Professional Preparation: Teaching of Probability and Statistics: Read More [+]
Rules & Requirements
Prerequisites: Graduate standing and appointment as a graduate student instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture and 4 hours of laboratory per week
Additional Details
Subject/Course Level: Statistics/Professional course for teachers or prospective teachers
Grading: Offered for satisfactory/unsatisfactory grade only.
Formerly known as: Statistics 300

Professional Preparation: Teaching of Probability and Statistics: Read Less [-]

STAT 601 Individual Study for Master's Candidates 0.5 - 8 Units
Terms offered: Fall 2023, Spring 2023, Fall 2022
Individual study in consultation with the graduate adviser, intended to provide an opportunity for qualified students to prepare themselves for the master's comprehensive examinations. Units may not be used to meet either unit or residence requirements for a master's degree.
Individual Study for Master's Candidates: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit up to a total of 16 units.
Hours & Format
Fall and/or spring: 15 weeks - 0.5-8 hours of independent study per week
Summer:
6 weeks - 1.5-20 hours of independent study per week
8 weeks - 1-15 hours of independent study per week
10 weeks - 1-12 hours of independent study per week
Additional Details
Subject/Course Level: Statistics/Graduate examination preparation
Grading: Offered for satisfactory/unsatisfactory grade only.

Individual Study for Master's Candidates: Read Less [-]
STAT 602 Individual Study for Doctoral Candidates 0.5 - 8 Units
Terms offered: Fall 2023, Spring 2023, Fall 2022
Individual study in consultation with the graduate adviser, intended to provide an opportunity for qualified students to prepare themselves for certain examinations required of candidates for the Ph.D. degree.
Individual Study for Doctoral Candidates: Read More [+]

Rules & Requirements
Prerequisites: One year of full-time graduate study and permission of the graduate adviser
Credit Restrictions: Course does not satisfy unit or residence requirements for doctoral degree.
Repeat rules: Course may be repeated for credit up to a total of 16 units.

Hours & Format
Fall and/or spring: 15 weeks - 0.5-8 hours of independent study per week
Summer:
6 weeks - 1.5-20 hours of independent study per week
8 weeks - 1-15 hours of independent study per week
10 weeks - 1-12 hours of independent study per week

Additional Details
Subject/Course Level: Statistics/Graduate examination preparation
Grading: Offered for satisfactory/unsatisfactory grade only.

STAT 700 Statistics Colloquium 0.0 Units
Terms offered: Prior to 2007
The Statistics Colloquium is a forum for talks on the theory and applications of Statistics to be given to the faculty and graduate students of the Statistics Department and other interested parties.
Statistics Colloquium: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 1-2 hours of colloquium per week

Additional Details
Subject/Course Level: Statistics/Graduate examination preparation
Grading: The grading option will be decided by the instructor when the class is offered.
Formerly known as: Statistics 999
Statistics Colloquium: Read Less [-]