Statistics

STAT 578  **Topics in Statistics**  credit: 4 hours.
May be repeated if topics vary. Prerequisite: Consent of instructor.

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<td>30959</td>
<td>Lecture-Discussion</td>
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<td>TR</td>
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**Advanced Statistical Modeling**
Restricted to Graduate - Urbana-Champaign.
For up-to-date information about statistics course registration, please see our registration update pages: go.illinois.edu/StatisticsRegistration

**TOPIC:** Topics in Advanced Statistical Modeling and Research
**PREREQS:** STAT 425, STAT 510, and STAT 511
**DESCRIPTION:** The course will cover some of the advanced topics relevant in modern statistical modeling and research. Potential topics include Bayesian hierarchical modeling, high dimensional data analysis, model selection and inference after model selection, quantile regression, etc. Students are expected to give presentations and/or to do a project related to a topic covered in the class.

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**Advanced Bayesian Modeling**
Restricted to Graduate - Urbana-Champaign.
Restricted to MCS:Computer Sci Online -UIUC or NDEG:Computer Science Onl-UIUC.
Restricted to online MCS-DS students. Additional ID Verification Coursera and ProctorU fees may apply. For more details on this course section, please see http://engineering.illinois.edu/online/courses/. Non-Degree seeking students may enroll on a space-available basis with consent. To request enrollment, please complete the "Non-Degree Enrollment Request Form" here: https://illinois.edu/fb/sec/9478165 Sections (and CRNs) for on-campus, degree-seeking students are: STAT 578 A1 (30959). Equivalency: CS 598 section DSO (CRN 69343) is equivalent to STAT 578 section DSO (CRN 48733). This is not true for all sections of CS 598 and STAT 578: it only applies to these specific sections in the fall 2017 term. Since this is not an official cross-listing, they might not automatically be recognized as equivalent for your degree audit. To determine whether extra steps need to be completed for either section to count towards your degree, contact your advisor. For up-to-date information about statistics course registration, please see our registration update pages: go.illinois.edu/StatisticsRegistration

**TOPIC:** Advanced Bayesian Modeling
**Description:** This class meets with CS 598 section DSO (CRN 69343). Practical methods and models for Bayesian data analysis. Topics include Bayesian fundamentals, prior selection, posterior inference tools, hierarchical models, methods of Bayesian computation, model evaluation, and ordinary and generalized regression models. Emphasis on computational implementation. Prerequisites: STAT 420 and knowledge of R.