Statistics

STAT 433  **Stochastic Processes**  credit: 3 OR 4 hours.
A stochastic process is a random process that represents the evolution of some system over time. Topics may include discrete-time and continuous-time Markov chains, birth-and-death chains, branching chains, stationary distributions, random walks, Markov pure jump processes, birth-and-death processes, renewal processes, Poisson process, queues, second order processes, Brownian motion (Wiener process), and Ito's lemma. 3 undergraduate hours. 4 graduate hours. Prerequisite: STAT 400 required, STAT 410 preferred, and MATH 225 (or equivalent knowledge of Linear Algebra) highly recommended.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>70527</td>
<td>Lecture-Discussion</td>
<td>1GR</td>
<td>11:00 AM - 12:20 PM</td>
<td>TR</td>
<td>1000 - Lincoln Hall</td>
<td>Stepanov, A</td>
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</tbody>
</table>

Credit Hours: 4 hours
Restricted to Graduate - Urbana-Champaign.

| 70528| Lecture-Discussion  | 1UG     | 11:00 AM - 12:20 PM | TR   | 1000 - Lincoln Hall | Stepanov, A |

Credit Hours: 3 hours
Restricted to Undergrad - Urbana-Champaign.