Mathematics

MATH 461  **Probability Theory**  credit: 3 OR 4 hours.

Introduction to mathematical probability; includes the calculus of probability, combinatorial analysis, random variables, expectation, distribution functions, moment-generating functions, and central limit theorem. Same as STAT 451. 4 hours of credit requires approval of the instructor and department with completion of additional work of substance. Credit is not given for both MATH 461 and either MATH 408 or ECE 313. Prerequisite: MATH 241 or equivalent.

<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>38047</td>
<td>Lecture-Discussion</td>
<td>B13</td>
<td>09:00 AM - 09:50 AM</td>
<td>MWF</td>
<td>347 - Altgeld Hall</td>
<td>Bauer, R</td>
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</tbody>
</table>

Credit Hours: 3 hours

<table>
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<tbody>
<tr>
<td>38049</td>
<td>Lecture-Discussion</td>
<td>B14</td>
<td>09:00 AM - 09:50 AM</td>
<td>MWF</td>
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Credit Hours: 4 hours
Instructor Approval Required

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<tbody>
<tr>
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Credit Hours: 3 hours
Open to both undergraduate and graduate students.

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<tbody>
<tr>
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</tbody>
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Credit Hours: 4 hours
Instructor Approval Required
Not intended for Undergrad - Urbana-Champaign.
Instructor approval forms available in 313 Altgeld Hall.

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<tr>
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<td>Lecture-Discussion</td>
<td>D13</td>
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<td>MWF</td>
<td>347 - Altgeld Hall</td>
<td>Ash, C</td>
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</table>

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<tbody>
<tr>
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<td>E13</td>
<td>01:00 PM - 01:50 PM</td>
<td>MWF</td>
<td>345 - Altgeld Hall</td>
<td>Song, R</td>
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Credit Hours: 3 hours
Open to both undergraduate and graduate students.
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<td>38058</td>
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<td>Song, R</td>
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</table>

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<tbody>
<tr>
<td>40671</td>
<td>Online</td>
<td>EGR</td>
<td>ARRANGED -</td>
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Online
Restricted to MCS:Computer Sci Online -UIUC, MS:Mechanical Engineering -UIUC, or NDEG:Grad Nondegree-CE-UIUC.
Restricted to online non-degree, online MCS, and online MSME students. An extra substantive project is required for students enrolling for 4 hours. Academic Outreach restrictions and assessments apply, see http://www.outreach.uiuc.edu. For more details on this course section, please see http://online.engineering.illinois.edu.descriptions/spring2011.htm
OCE Tuition $925.00 per Bill Hour, and OCE Fees $50.00 per Bill Hour.

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<tbody>
<tr>
<td>38063</td>
<td>Lecture-Discussion</td>
<td>F83</td>
<td>02:00 PM - 02:50 PM</td>
<td>MWF 156 - Henry Administration Bldg</td>
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</table>

Credit Hours: 3 hours
Uses Mathematica courseware. See http://www.math.uiuc.edu/timetable/ for details. Open to both undergraduate and graduate students.

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