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>30017</td>
<td>Lecture-Discussion</td>
<td>B3</td>
<td>09:00 AM - 09:50 AM</td>
<td>MTWRF</td>
<td>245 - Altgeld Hall</td>
<td>Carpenter, B</td>
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<td></td>
<td>Lecture-Discussion</td>
<td>B3</td>
<td>02:00 PM - 02:50 PM</td>
<td>M</td>
<td>245 - Altgeld Hall</td>
<td>Carpenter, B</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours

| 30019| Lecture-Discussion    | B4      | 09:00 AM - 09:50 AM | MTWRF  | 245 - Altgeld Hall | Carpenter, B |
|      | Lecture-Discussion    | B4      | 02:00 PM - 02:50 PM | M      | 245 - Altgeld Hall | Carpenter, B |

Credit Hours: 4 hours
Departmental Approval Required

| 31859| Online                | EGR     | ARRANGED -         | -      | -                | Carpenter, B, Woods, D |

Online
Restricted to MCS:Computer Sc Online -UIUC, MS:Mechanical Engineering -UIUC, or NDEG:Grad Nondegree-CE-UIUC.
Meets 31-May-11 - 04-Aug-11.
Restricted to online non-degree, online MCS, and online MSME students. Online and Continuing Education (OCE) restrictions and assessments apply, see http://www.oce.illinois.edu. For more details on this course section, please see http://online.engineering.illinois.edu/descriptions/summer2011.htm.
OCE Tuition $925.00 per Bill Hour, and OCE Fees $50.00 per Bill Hour.