# 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. 3 or 4 undergraduate hours. 3 or 4 graduate hours. Credit is not given for both MATH 461 and either MATH 408 or ECE 313. 4 hours of credit requires approval of the instructor and department with completion of additional work of substance. Prerequisite: MATH 241 or equivalent.

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<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>39200</td>
<td>Lecture-Discussion</td>
<td>C13</td>
<td>10:00 AM - 10:50 AM</td>
<td>MWF</td>
<td>343 - Altgeld Hall</td>
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<td>Restricted to MS: Civil Engr - Online - UIUC, MCS:Computer Sci Online -UIUC, MS:Mechanical Engineerng -UIUC, MS: Aerospace Engr-Online-UIUC, or MCS: Computer Sci Online-UIUC.  Restricted to online MSAE, online MCS, online MSME, and online MSCEEE students. Center for Innovation in Teaching &amp; Learning (CITL) restrictions and assessments apply, see <a href="http://www.citl.illinois.edu">http://www.citl.illinois.edu</a>. For more details on this course section, please see <a href="http://engineering.illinois.edu/online/courses/">http://engineering.illinois.edu/online/courses/</a>. Online non-degree students are not eligible to register for this section. OCE Tuition $1034.00 per Bill Hour, and OCE Fees $50.00 per Bill Hour.</td>
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Credit Hours: 3 hours

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