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.

<table>
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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>31859</td>
<td>Online</td>
<td>EGR</td>
<td>ARRANGED</td>
<td>-</td>
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<td>Carpenter, B</td>
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Credit Hours: 3 hours
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.
Meets 31-May-16 - 04-Aug-16.
Restricted to online MCS, online MSME, online MSAE and online MSCE students only. Online non-degree and campus undergraduates are not eligible to register for this section. For more details on this course section, please see [http://engineering.illinois.edu/online/courses/](http://engineering.illinois.edu/online/courses/). Center for Innovation in Teaching & Learning (CITL) restrictions and assessments apply, see [https://online.illinois.edu](https://online.illinois.edu). This section is restricted to Engineering online graduate degree-seeking students only. Non-degree students please register for MATH 415 M16 section.

| 38314 | Online | ONL | ARRANGED      | -    | Carpenter, B |

Credit Hours: 3 hours
Meets 13-Jun-16 - 04-Aug-16.
This section has an online format and requires access to Mathematica-based courseware. Students will be given information about how to sign up for an account in Mathable ($99) after enrollment in the course. Off-campus students must arrange for a proctor and must have the proctor approved during the first week of class. Please see [https://netmath.illinois.edu/offcampus](https://netmath.illinois.edu/offcampus) for proctor eligibility guidelines.