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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<th>CRN</th>
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<th>Time</th>
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<td>38314</td>
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Credit Hours: 3 hours
This section has an online format and requires access to Mathematica-based courseware. Students will receive information about how to sign up for an account in CAS-ILE ($99) after enrollment in the course. This course contains multiple paper-based exams that must be taken with an approved proctor. Exams may be taken on- or off-campus. For summer proctoring options see https://netmath.illinois.edu/summerproctor. Off-campus proctors must be able to scan completed exams and email them to NetMath for grading, as well as mailing the paper exam back for archival purposes. Please contact netmath@illinois.edu with any questions. A 16-week self-paced version of this class is also available as part of the academic year term (not summer term). Registration for the self-paced class is done through https://netmath.illinois.edu/register/college (not Self-Service).

| 39267  | Online | XGR     | ARRANGED - | -    |          | Carpenter, B |

Credit Hours: 3 hours
This course is available to undergrads as an online Academic Year term offering. See https://netmath.illinois.edu/college/math-461. XGR Section restricted to Engineering Online graduate degree-seeking students in MSAE, MSCE, MCS, MSIE, and MSME. For more details on this course section, see https://graingter.illinois.edu/academics/online/courses Non-degree students please register for MATH 461 M16 section.