Mathematics

MATH 221  **Calculus I**  credit: 4 hours.

First course in calculus and analytic geometry for students with some calculus background; basic techniques of differentiation and integration with applications including curve sketching; antidifferentation, the Riemann integral, fundamental theorem, exponential and trigonometric functions. Credit is not given for both MATH 221 and either MATH 220 or MATH 234. Prerequisite: An adequate ALEKS placement score as described at http://math.illinois.edu/ALEKS/ and either one year of high school calculus or a minimum score of 2 on the AB Calculus AP exam.

Students must register for one discussion and one lecture section beginning with the same letter. Engineering students must obtain a dean's approval to drop this course after the second week of instruction.

This course satisfies the General Education Criteria for a:
Quantitative Reasoning I

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<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
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Quant Reasoning I course.

This section incorporates the use of technology through Mathematica demonstrations in the recitations. Placement in this course requires a recent U of I Math Placement Exam score of at least 70%. Failure to achieve the minimum score will result in removal from the course. For details see [http://www.math.uiuc.edu/ALEKS/](http://www.math.uiuc.edu/ALEKS/).
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