Mathematics

MATH 380  **Advanced Calculus**  credit: 3 hours.
Introductory study of vector calculus and functions of several variables; topics include directional derivatives; Jacobians; change of variables in multiple integrals; maxima and minima; line and surface integrals; theorems of Gauss, Green, and Stokes; infinite series; and uniform convergence. Credit is not given for both MATH 380 and MATH 241. Prerequisite: MATH 242.

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

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<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>40194</td>
<td>Laboratory-Discussion</td>
<td>Z8</td>
<td>ARRANGED -</td>
<td></td>
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<td>Carpenter, B</td>
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Quant Reasoning II course.
Section Z8 will be taught asynchronously. See http://www.math.uiuc.edu/timetable/ for further details. Restricted to seniors.
Contact Math Undergraduate Office (advising@math.uiuc.edu) for additional details. Uses Mathematica courseware. See http://www.math.uiuc.edu/timetable/ for details.