Mathematics

MATH 380  **Advanced Calculus**  credit: 3 hours.

(MATH 280) 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. Prerequisite: MATH 242 or MATH 243, or equivalent.

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

<table>
<thead>
<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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<tr>
<td>34499</td>
<td>Lecture-Discussion</td>
<td>B1</td>
<td>09:00 AM - 09:50 AM</td>
<td>MWF</td>
<td>142 - Henry Administration Bldg</td>
<td>Ash, C</td>
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<td>34368</td>
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<td>01:00 PM - 01:50 PM</td>
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<td>341 - Altgeld Hall</td>
<td>Mustata, D</td>
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<td>243 - Altgeld Hall</td>
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<td>40194</td>
<td>Laboratory-Discussion</td>
<td>Z8</td>
<td>ARRANGED -</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.