Mathematics

MATH 519 **Differentiable Manifolds II**  credit: 4 hours.
Vector bundles, principal bundles, connections, parallel transport, curvature, Chern-Weyl theory, Hodge-DeRham theory. Other topics may include Riemannian geometry, symplectic geometry, spin geometry, and harmonic maps. Prerequisite: MATH 518 or consent of instructor.

<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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<tbody>
<tr>
<td>49968</td>
<td>Lecture-Discussion</td>
<td>C1</td>
<td>12:30 PM - 01:50 PM</td>
<td>TR</td>
<td>143 - Altgeld Hall</td>
<td>Kerman, E</td>
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Not intended for Undergrad - Urbana-Champaign. Not intended for MS:Economics:Policy Econ -UIUC, MS:Economics:Policy Econ - UIUC, or MS: Financial Engineering. Students from the following programs must contact the Director of Graduate Studies in Mathematics <rdeville@illinois.edu> to request permission to register for the course: MS:Economics:Policy Econ -UIUC or MS: Financial Engineering.