## Class Schedule - Spring 2019

**Mathematics**

**MATH 595  Advanced Topics in Mathematics**  credit: 1 TO 4 hours.

See Class Schedule for current topics. 1 to 4 graduate hours. No professional credit. May be repeated in the same or separate semesters. Prerequisite: 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>
</tr>
</thead>
<tbody>
<tr>
<td>51267</td>
<td>Lecture-Discussion</td>
<td>BSC</td>
<td>10:00 AM - 10:50 AM</td>
<td>MWF</td>
<td>145 - Altgeld Hall</td>
<td>Katz, S</td>
</tr>
</tbody>
</table>

Credit Hours: 2 hours
Bridgeland Stability
Not intended for Undergrad - Urbana-Champaign.
Meets 14-Jan-19 - 08-Mar-19.
Bridgeland Stability Conditions and Applications. [https://math.illinois.edu/academics/graduate-program/coursework-and-exams/advanced-topics-courses](https://math.illinois.edu/academics/graduate-program/coursework-and-exams/advanced-topics-courses)

| 64840| Lecture-Discussion | COS     | 11:00 AM - 12:20 PM | TR   | 143 - Henry Administration Bldg | Nevins, T |

Credit Hours: 2 hours
Cohomology of schemes
Meets 14-Jan-19 - 08-Mar-19.

| 46008| Lecture-Discussion | DET     | 11:00 AM - 12:20 PM | TR   | 7 - Illini Hall | Tserunyan, A |

Credit Hours: 4 hours
Ctbl Borel equivalence rels
Not intended for Undergrad - Urbana-Champaign.

| 39568| Lecture-Discussion | HCM     | 11:00 AM - 11:50 AM | MWF  | 145 - Altgeld Hall | Balog, J   |

Credit Hours: 2 hours
The Hypergraph container
Meets 14-Jan-19 - 08-Mar-19.

| 39566| Lecture-Discussion | HCT     | 02:00 PM - 02:50 PM | MWF  | 243 - Altgeld Hall | Rezk, C    |

Credit Hours: 2 hours
Higher Category Theory
Not intended for Undergrad - Urbana-Champaign.
Meets 14-Jan-19 - 08-Mar-19.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Type</th>
<th>Instructor</th>
<th>Time</th>
<th>Location</th>
<th>Credit Hours</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>51271</td>
<td>Lecture-Discussion</td>
<td>KM</td>
<td>09:30 AM - 10:50 AM</td>
<td>TR</td>
<td>441 - Altgeld Hall</td>
<td>Higher Category Theory See <a href="http://www.math.uiuc.edu/timetable/">http://www.math.uiuc.edu/timetable/</a> for the full course description. McGerty, K</td>
</tr>
<tr>
<td>63805</td>
<td>Lecture-Discussion</td>
<td>MNA</td>
<td>02:00 PM - 03:20 PM</td>
<td>TR</td>
<td>341 - Altgeld Hall</td>
<td>GEOMETRIC REPRESENTATION THEORY, ENUMERATIVE GEOMETRY AND QUIVERS. Kevin McGerty <a href="https://math.illinois.edu/academics/graduate-program/coursework-and-exams/advanced-topics-courses">https://math.illinois.edu/academics/graduate-program/coursework-and-exams/advanced-topics-courses</a> Kirr, E</td>
</tr>
<tr>
<td>57626</td>
<td>Lecture-Discussion</td>
<td>SAE</td>
<td>12:30 PM - 01:50 PM</td>
<td>TR</td>
<td>7 - Illini Hall</td>
<td>Smooth and Etale extensions Restricted to Graduate - Urbana-Champaign. Dutta, S</td>
</tr>
</tbody>
</table>

Credit Hours: 4 hours
Enumerative geometry & quivers
Not intended for Undergrad - Urbana-Champaign.
Topic: GEOMETRIC REPRESENTATION THEORY, ENUMERATIVE GEOMETRY AND QUIVERS. Kevin McGerty https://math.illinois.edu/academics/graduate-program/coursework-and-exams/advanced-topics-courses

Credit Hours: 4 hours
Methods in Nonlinear Analysis
Topic: Methods in Nonlinear Analysis and Applications to Differential Equations See https://math.illinois.edu/timetable for the full course description.

Credit Hours: 4 hours
Smooth and Etale extensions
Restricted to Graduate - Urbana-Champaign.