Mathematics

MATH 573  **Recursive Function Theory**  credit: 4 hours.

(MATH 412) Various characterizations of the class of recursive (i.e., computable) functions; the Church-Turing thesis; unsolvability of the halting problem; the recursion theorem and the enumeration theorem; relative computability, the jump operation, and the arithmetical hierarchy; recursively enumerable sets; degrees of unsolvability; and the priority method. Prerequisite: MATH 570 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>39218</td>
<td>Lecture-Discussion</td>
<td>G1</td>
<td>03:00 PM - 03:50 PM</td>
<td>MWF</td>
<td>441 - Altgeld Hall</td>
<td>Pillay, A</td>
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