MONDAY, June 23: Welcome and opening meeting: 9:00 in Ryerson 251.
Pizza and coke: 12:00 (or a few minutes later) in the barn, Ryerson 352
First meeting with mentors: 5:00 in Eckhart 133; attendance required!

All morning classes will meet in Ryerson 251.
All afternoon classes will meet in Eckhart 133.
Note: R251 is not available 1:30 - 3:30 MWF or after 5:00; R276 and R277 are also reserved for the REU.

Apprentice course: The problem sessions are an integral part of the course and cover new material. Those who miss them will very soon fall hopelessly behind.

**FIRST WEEK:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Apprentice Babai (lectures)</th>
<th>Probability Lawler</th>
<th>Number Theory Emerton, Herman, Reduzzi</th>
<th>Logic Hirschfeldt</th>
<th>Geometry Dotterer</th>
<th>Alg. Top. May</th>
<th>analysis Liu</th>
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<tbody>
<tr>
<td>Mon, June 23</td>
<td>9:30–12:00 (B)</td>
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<tr>
<td>Tue, June 24</td>
<td>9:30–10:50 (H)</td>
<td>1:30–3:00</td>
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<tr>
<td>Wed, June 25</td>
<td>9:30–10:50 (H)</td>
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<tr>
<td>Thu, June 26</td>
<td>9:30–10:50 (H)</td>
<td>1:30–3:00</td>
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<td>Fri, June 27</td>
<td>9:30–12:00 (B)</td>
<td>1:30–3:00</td>
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**SECOND WEEK:**

<table>
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<tr>
<th>Date</th>
<th>Apprentice Babai (lectures)</th>
<th>Probability Lawler</th>
<th>Number Theory Emerton, Herman, Reduzzi</th>
<th>Logic Malliaris</th>
<th>Geometry Dotterer</th>
<th>Alg. Top. May</th>
<th>Analysis Liu</th>
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<tbody>
<tr>
<td>Mon, June 30</td>
<td>9:30–12:00 (B)</td>
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<td>Tue, July 1</td>
<td>9:30–10:50 (H)</td>
<td>1:30–3:00</td>
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<td>Wed, July 2</td>
<td>9:30–12:00 (B)</td>
<td>1:00–2:30</td>
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<td>Thu, July 3</td>
<td>9:30–10:50 (B)</td>
<td>1:30–3:00</td>
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<td>Fri, July 4</td>
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Here is the schedule in summary form:

**FIRST WEEK:**

Laci Babai. Apprentice. 9:30–12:00 MF
Sean Howe. Apprentice problem sessions 9:30–10:50 and 11:00-12:00 in R277, TTh
Gregory Lawler. Probability. 1:30–3:00 TThF
Matthew Emerton, Eddie Herman, Davide Reduzzi. Number theory. 1:00–2:30 M, 11:00-12:30 TTh
Denis Hirschfeldt. Logic. 1:30–3:00 W, 3:30–5:00 F
Dominic Dotterer. Geometry. 3:30–4:30 M, 3:30–5:00 TTh
Peter May. Algebraic topology. 4:15–5:00 M, 3:30–5:00 F
Baoping Liu. Analysis. 11:00–12:30 T, 10:30–12:30 Th
Mathematical course in the CS REU (see link on main page):
Alexander Razborov: Proof Complexity. WeTh 11:15-12:45 TTIC 5th floor
TTIC is located at 6045 S Kenwood avenue (12 min walk from the main quad).
SECOND WEEK:

Laci Babai. Apprentice. 9:30–12:00 MW
Laci Babai and Sean Howe. Apprentice problem sessions 9:30–10:50 and 11:00-12:00 in R277 TTh
Gregory Lawler. Probability. 1:30–3:00 MW, 1:00–2:30 W
Matthew Emerton, Eddie Herman, Davide Reduzzi. Number theory. 1:00–2:30 M, 11:00–12:30 TTh
Maryanthe Malliaris. Logic. 3:00–4:00 M, 3:30–4:30 TTh
Dominic Dotterer. Geometry. 4:15–5:15 M, 3:00–4:00 W
Peter May. Algebraic topology. 4:45–5:15 TTh, 4:15–5:15 W
Baoping Liu. Analysis. 10:30–12:00 MW
Mathematical courses in the CS REU (see link on main page):
Alexander Razborov: Proof Complexity. WeTh 11:15-12:45 TTIC 5th floor
Madhur Tulsiani and Yury Makarychev: Semidefinite Programming.
MoTuFr 2:15 - 3:45 TTIC 5th floor