Courses

See [https://publish.illinois.edu/theory-cs/theory-courses/](https://publish.illinois.edu/theory-cs/theory-courses/) for more up-to-date courses.

**Regularly Offered Theory Courses**

- CS 173 Discrete Structures (every semester)
- CS 373 Introduction to Theory of Computation (every semester)
- CS 473 Fundamental (aka Undergrad) Algorithms (every semester)
- CS 573 (Graduate) Algorithms (every fall)
- CS 579 Computational Complexity (every spring)

**Regularly offered special topics courses**

- CS 498 Logical Foundations of Computer Science (every two years?)
- CS 598 Randomized Algorithms (every two years)
- CS 598 Approximation Algorithms (every two years)
- CS 598 Applied Cryptography (every year)

The last three should have their own course numbers by Spring 2011.

**Teaching Schedule**

All future teaching assignments are tentative.

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall 2008</th>
<th>Spring 2009</th>
<th>Fall 2009</th>
<th>Spring 2010</th>
<th>Fall 2010</th>
<th>Spring 2011</th>
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<tr>
<td>173: Discrete Structures</td>
<td>Fleck+Shaffer</td>
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<td>373: Theory of Computation</td>
<td>Viswanathan+Prabhakaran</td>
<td>Parasarathy+Har-Peled</td>
<td>LaValle</td>
<td>Parthasarathy</td>
<td>Agha+Viswanathan</td>
<td>LaValle</td>
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<td>473: Fundamental Algorithms</td>
<td>Chekuri</td>
<td>Erickson</td>
<td>Chekuri</td>
<td>Erickson</td>
<td>Chekuri</td>
<td>Har-Peled</td>
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<td>498: Logic in CS</td>
<td>Parasarathy</td>
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<td>573: Algorithms</td>
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<td>Har-Peled</td>
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<td>Prabhakaran</td>
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<tr>
<td>598: Randomized Algorithms</td>
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<td>598: Approximation Algorithms</td>
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<td>Prabhakaran</td>
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<td>598: Applied Cryptography</td>
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<td>Erickson</td>
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<td>598: Computational Topology</td>
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<tr>
<td>598: Advanced Data Structures</td>
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<tr>
<td>598: Geometric Approximation Algorithms</td>
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<tr>
<td>598: Combinatorial Optimization</td>
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<td>Chekuri</td>
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</table>

**Recent Special Topics Courses**

- CS 598mmp Applied Cryptography (Fall 2009)
- CS 598JE Computational Topology (Fall 2009)
- CS 598csc Approximation Algorithms (Spring 2009)
- CS 598SH Randomized Algorithms (Fall 2008)
- CS 598JE Computational Geometry (Spring 2008)
CS 573 Topics in Algorithms: Algorithmic Game Theory (Spring 2008)
CS 498 Theoretical Foundations of Cryptography (every two years) (Fall 2006)
CS 573 Topics in Analysis of Algorithms: Advanced Data Structures (Spring 2006)
CS 598mmp Expander Graphs (Spring 2006)
CS 598cc Approximation Algorithms (Fall 2006)

Recommendations for undergraduates

Recommendations for non-theory graduate students

Recommendations for theory graduate students