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| Jan 15, 2008 <i>Regular Languages: Finite Automata</i> <i>Section 1.1</i> | Jan 17, 2008 <i>Regular Languages: Nondeterminism</i> <i>Section 1.2</i> | Jan 22, 2008 <i>Regular Languages: Regular Expressions</i> <i>Section 1.3</i> | Jan 24, 2008 <i>Regular Languages: Nonregular Languages</i> <i>Section 1.4</i> |
| Jan 29, 2008 <i>Context-Free Languages: Context-free Grammars</i> <i>Section 2.1</i> | Jan 31, 2008 <i>Context-Free Languages: Pushdown Automata</i> <i>Section 2.2</i> | Feb 5, 2008 <i>Context-Free Languages: Non-context-free Languages</i> <i>Section 2.3</i> | Feb 7, 2008 Exam 1 Automata and Languages <i>sections 1.1-2.3</i> |
| Feb 12, 2008 <i>Church-Turing Thesis: Turing Machines</i> <i>Section 3.1</i> | Feb 14, 2008 <i>Church-Turing Thesis: Variants of Turing Machines</i> <i>Section 3.2</i> | Feb 19, 2008 <i>Church-Turing Thesis: The Definition of Algorithm</i> <i>Section 3.3</i> | Feb 21, 2008 <i>Decidability: Decidable Languages</i> <i>Section 4.1</i> |
| Feb 26, 2008 <i>Decidability: The Halting Problem</i> <i>Section 4.2</i> | Feb 28, 2008 <i>Reducibility: Reductions via Computation Histories</i> <i>Section 5.1</i> | Mar 4, 2008 <i>Reducibility: PCP Is Undecidable</i> <i>Section 5.2</i> | Mar 6, 2008 <i>Spring Break</i> |
| Mar 11, 2008 <i>Spring Break</i> | Mar 13, 2008 <i>Spring Break</i> | Mar 18, 2008 <i>Reducibility: Mapping Reducibility</i> <i>Section 5.3</i> | Mar 20, 2008 Exam 2 Computability Theory <i>sections 3.1-5.3</i> |
| Mar 25, 2008 <i>Time Complexity: Measuring Complexity</i> <i>Section 7.1</i> | Mar 27, 2008 <i>Time Complexity: The Class P</i> <i>Section 7.2</i> | Apr 1, 2008 <i>Time Complexity: The Class NP</i> <i>Section 7.3</i> | Apr 3, 2008 <i>Time Complexity: NP-completeness</i> <i>Section 7.4</i> |
| Apr 8, 2008 <i>Time Complexity: NP-complete Problems</i> <i>Section 7.5</i> | Apr 10, 2008 <i>Time Complexity: NP-complete Problems</i> <i>Section 7.5</i> | Apr 15, 2008 <i>Space Complexity: Savitch's Theorem</i> <i>Section 8.1</i> | Apr 17, 2008 <i>Space Complexity: The Class PSPACE</i> <i>Section 8.2</i> |
| Apr 22, 2008 <i>Space Complexity: PSPACE-completeness</i> <i>Section 8.3</i> | Apr 24, 2008 <i>Intractability: Circuit Complexity</i> <i>Section 9.3</i> | Apr 29, 2008 Exam 3 Complexity Theory <i>sections 7.1-8.3, 9.3</i> | Text: Sipser, "Introduction to the Theory of Computation, Second Edition" |
| Dec 18, 2001 Final Exam Tuesday 7 pm <i>chaps 1-5.7, 8.1-8.3,9.3</i> | CprS 310 Theory of Computation <i>MTh 2:00-3:00 pm</i> <i>Spring 2008</i> <i>Parrish</i> | Grading Scheme: <i>tests</i> <i>participation</i> <i>homework</i> <i>final exam</i> <i>total:</i> | <i>points</i> 45 points 20 points 15 points <u>20 points</u> 100 points |