

Math 306 Spring 2007

Monday	Wednesday	Friday	Monday	Wednesday	Friday								
January 15 Text: <i>Fraleigh</i> "A First Course in Abstract Algebra" Seventh Edition	January 17 <i>Isomorphism Theorems</i> <i>Section 34</i>	January 19 <i>Series of Groups</i> <i>Section 35</i>	January 22 <i>Sylow Theorems</i> <i>Section 36</i>	January 24 <i>Applications of Sylow Theory</i> <i>Section 37</i>	January 26 <i>Free Abelian Groups</i> <i>Section 38</i>								
January 29 <i>Free Groups</i> <i>Sections 39</i>	January 31 <i>Group Presentations</i> <i>Section 40</i>	February 2 <i>Review for Exam 1</i> <i>Sections 34-40</i>	February 5 <i>Exam 1 Advanced Group Theory</i> <i>Sections 34-40</i>	February 7 <i>Simplicial Complexes and Homology Groups</i> <i>Section 41</i>	February 9 <i>Computations of Homology Groups</i> <i>Section 42</i>								
February 12 <i>More Homology Computations</i> <i>Section 43</i>	February 14 <i>Homological Algebra</i> <i>Section 44</i>	February 16 <i>Unique Factorization Domains</i> <i>Section 45</i>	February 19 <i>Unique Factorization Domains</i> <i>Section 45</i>	February 21 <i>Euclidian Domains</i> <i>Section 46</i>	February 23 <i>Euclidian Domains</i> <i>Section 46</i>								
February 26 <i>Gaussian Integers</i> <i>Section 47</i>	February 28 <i>Gaussian Integers</i> <i>Section 47</i>	March 2 <i>Review for Exam 2 Mid-Semester</i> <i>Sections 41-47</i>	March 5 <i>Exam 2 Groups in Topology, Factorization</i> <i>Sections 41-47</i>	March 7 <i>Automorphisms of Fields</i> <i>Section 48</i>	March 9 <i>Automorphisms of Fields</i> <i>Section 48</i>								
March 12 <i>Isomorphism Extension Theorem</i> <i>Section 49</i>	March 14 <i>Isomorphism Extension Theorem</i> <i>Section 49</i>	March 16 <i>Spring Break</i>	March 19 <i>Spring Break</i>	March 21 <i>Spring Break</i>	March 23 <i>Spring Break</i>								
March 26 <i>Splitting Fields</i> <i>Sections 50</i>	March 28 <i>Splitting Fields</i> <i>Sections 50</i>	March 30 <i>Separable Extensions</i> <i>Section 51</i>	April 2 <i>Separable Extensions</i> <i>Section 51</i>	April 4 <i>Totally Inseparable Extensions</i> <i>Section 52</i>	April 6 <i>Totally Inseparable Extensions</i> <i>Section 52</i>								
April 9 <i>Review for Exam 3</i> <i>Sections 48-52</i>	April 11 <i>Exam 3 Extension Fields</i> <i>Sections 48-52</i>	April 13 <i>Galois Theory</i> <i>Section 53</i>	April 16 <i>Galois Theory</i> <i>Section 53</i>	April 18 <i>Illustration of Galois Theory</i> <i>Section 54</i>	April 20 <i>Illustration of Galois Theory</i> <i>Section 54</i>								
April 23 <i>Cyclotomic Extensions</i> <i>Section 55</i>	April 25 <i>Cyclotomic Extensions</i> <i>Section 55</i>	April 27 <i>Insolvability of the Quintic</i> <i>Section 56</i>	April 30 <i>Insolvability of the Quintic</i> <i>Section 56</i>	May 2 <i>Course Review</i>	Text: <i>Fraleigh</i> "A First Course in Abstract Algebra" Seventh Edition								
May 5 <i>Final Exam</i> <i>Sat, May 5, 2-4 pm</i> <i>Sections 34-56</i>	<p>Math 306 Algebra II MWF 11:00-11:50 Parrish, Spring 2007</p>		<p>Grading Scheme:</p> <table> <tr> <td>exams</td> <td>60 points</td> </tr> <tr> <td>homework</td> <td>20 points</td> </tr> <tr> <td><u>final exam</u></td> <td><u>20 points</u></td> </tr> <tr> <td><u>total:</u></td> <td><u>100 points</u></td> </tr> </table>			exams	60 points	homework	20 points	<u>final exam</u>	<u>20 points</u>	<u>total:</u>	<u>100 points</u>
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