

MATH 396T - Spring 2020 - Tentative Schedule

Monday	Tuesday	Wednesday	Thursday	Friday
<i>Jan 13</i>	<i>Jan 14</i>	<i>Jan 15</i> JMM First day of classes	<i>Jan 16</i>	<i>Jan 17</i> Introduction and 1.1: Complex Numbers
<i>Jan 20</i> Martin Luther King Jr. Holiday <i>No Classes</i>	<i>Jan 21</i>	<i>Jan 22</i> 1.1: Complex Numbers (cont.)	<i>Jan 23</i>	<i>Jan 24</i> 1.3: Polynomials
<i>Jan 27</i> 1.3: Polynomials (cont.) and 1.4: Power Series	<i>Jan 28</i> Last day to drop with deletion from record	<i>Jan 29</i> 1.4: Power Series (cont.) and Roots of Unity	<i>Jan 30</i>	<i>Jan 31</i> Roots of Unity and Functions from \mathbb{R} to \mathbb{C} Homework 1
<i>Feb 3</i> 2.1: Sums of Roots of Unity	<i>Feb 4</i>	<i>Feb 5</i> 2.2: The Discrete Fourier Transform	<i>Feb 6</i>	<i>Feb 7</i> 2.2: Properties of the Discrete Fourier Transform
<i>Feb 10</i> 2.2: On Convolutions and some examples Homework 2	<i>Feb 11</i>	<i>Feb 12</i> 2.2: On the discrete Parseval Identity Last day to apply for GRO	<i>Feb 13</i>	<i>Feb 14</i> 3.1: Fourier Coefficients and Series: The Basics
<i>Feb 17</i> 3.1: Properties of Fourier Coefficients	<i>Feb 18</i>	<i>Feb 19</i> 3.1: Properties of Fourier Coefficients (cont.)	<i>Feb 20</i>	<i>Feb 21</i> Homework 3
<i>Feb 24</i> MIDTERM EXAM 1	<i>Feb 25</i>	<i>Feb 26</i> 5.1: Vector Spaces of Functions	<i>Feb 27</i>	<i>Feb 28</i> 5.2: Parseval's Identity Homework 4
<i>Mar 2</i> 6.1: Trigonometric Polynomials	<i>Mar 3</i>	<i>Mar 4</i> 6.2: Bernstein's Inequality	<i>Mar 5</i>	<i>Mar 6</i> 6.3: Real-Valued Trig. Polynomials Homework 5

Monday	Tuesday	Wednesday	Thursday	Friday
<i>Mar 9</i> Spring Break	<i>Mar 10</i> Spring Break	<i>Mar 11</i> Spring Break	<i>Mar 12</i> Spring Break	<i>Mar 13</i> Spring Break
<i>Mar 16</i> 6.4: Littlewood Polynomials	<i>Mar 17</i>	<i>Mar 18</i> 6.5: Quantitative Approximations Homework 6	<i>Mar 19</i>	<i>Mar 20</i> 7.1: Absolutely Convergent Fourier Series
<i>Mar 23</i> 7.2: Wiener's Theorem	<i>Mar 24</i>	<i>Mar 25</i> 8.1: Convergence of Fourier Series	<i>Mar 26</i>	<i>Mar 27</i> 8.2: Functions of Bounded Variation Homework 7
<i>Mar 30</i> 8.3: Examples of Divergence	<i>Mar 31</i> Last day to withdraw with W using Uaccess	<i>Apr 1</i> 9.1: The Heat Equation	<i>Apr 2</i>	<i>Apr 3</i> 9.2: The Wave Equation
<i>Apr 6</i> 9.3: Continuous, Nowhere differentiable functions Homework 8	<i>Apr 7</i>	<i>Apr 8</i> 9.4: Inequalities	<i>Apr 9</i>	<i>Apr 10</i> MIDTERM EXAM 2
<i>Apr 13</i> 9.5: Bernoulli Polynomials Homework 9	<i>Apr 14</i> Last day to submit petition for late withdrawal	<i>Apr 15</i> 9.6: Uniform Distribution	<i>Apr 16</i>	<i>Apr 17</i> 9.7 Positive Definite Kernels
<i>Apr 20</i> 9.8: Norms of Polynomials	<i>Apr 21</i>	<i>Apr 22</i> 10.1: The Fourier Transform	<i>Apr 23</i>	<i>Apr 24</i> 10.2: The Inversion Formula
<i>Apr 27</i> 10.3 Fourier Transforms in Mean Square Homework 10	<i>Apr 28</i>	<i>Apr 29</i> 10.4: The Poisson Summation Formula	<i>Apr 30</i>	<i>May 1</i> 10.5: Linear Combinations of Translates

<i>May 4</i> 11.1: Multiple Discrete Fourier Transforms Homework 10	<i>May 5</i>	<i>May 6</i> 11.2: Multiple Fourier Series/Transforms Last day of classes	<i>May 7</i> Reading day	<i>May 8</i> Final Exam: 10:30 – 12:30
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