

MATH 272 CALENDAR
SPRING 2021

MONDAY	TUESDAY	WEDNESDAY	FRIDAY
<div>Jan 18th</div> <div>Martin Luther King Day.</div>	<div>19th 1</div> <div>First day, review. Functions in higher dimensions.</div>	<div>20th 2</div> <div>Curves and velocity/acceleration vectors.</div>	<div>22nd 3</div> <div>Scalar Fields and partial differentiation.</div>
<div>25th 4</div> <div>Vector fields and the directional derivative. Gradient.</div>	<div>26th 5</div> <div>Cont.</div>	<div>27th 6</div> <div>Divergence and curl of vector fields. Laplacian.</div>	<div>29th 7</div> <div>Quiz 1. Homework 1 due.</div>
<div>Feb 1st 8</div> <div>Cont.</div>	<div>2nd 9</div> <div>Integration over curves.</div>	<div>3rd 10</div> <div>Cont.</div>	<div>5th 11</div> <div>Homework 2 due. Potential functions and conservation.</div>
<div>8th 12</div> <div>Surfaces. Implicit and explicit parameterizations.</div>	<div>9th 13</div> <div>Tangent planes and normals.</div>	<div>10th 14</div> <div>Integration over surfaces.</div>	<div>12th 15</div> <div>Quiz 2. Homework 3 due. Volume integrals.</div>
<div>15th 16</div> <div>Cont.</div>	<div>16th 17</div> <div>Cylindrical coordinates.</div>	<div>17th 18</div> <div>Cont.</div>	<div>19th 19</div> <div>Homework 4 due. Spherical coordinates.</div>
<div>22nd 20</div> <div>Cont.</div>	<div>23rd 21</div> <div>Open.</div>	<div>24th 22</div> <div>Oral Exam 1.</div>	<div>26th 23</div> <div>Oral Exam 1.</div>
<div>Mar 1st 24</div> <div>Higher dimensional ODEs.</div>	<div>2nd 25</div> <div>Cont.</div>	<div>3rd 26</div> <div>Continuum limit and partial differential equations.</div>	<div>5th 27</div> <div>Homework 5 due. Example equations: Laplace/ Poisson's/ heat/ wave equation.</div>

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8th 28 Cont.	9th 29 Time dependent Schödinger equations. Superposition states.	10th 30 Cont.	12th 31 Quiz 3. Homework 6 due. Cont.
15th 32 Maxwell's equations.	16th 33 Cont.	17th 34 PDEs in other coordinate systems.	19th 35 Homework 7 due. Cont.
22nd 36 Open.	23rd 37 Open.	24th 38 Oral Exam 2.	26th 39 Oral Exam 2.
29th 40 Complex functions, phase.	30th 41 Function spaces and inner products.	31st 42 Symmetries of inner products.	Apr 2nd 43 Homework 8 due. Orthonormal bases and projection.
5th 44 Series and integrals as linear combinations.	6th 45 Linear operators and adjoints.	7th 46 Differential operators and domains.	9th 47 Quiz 4. Homework 9 due. Orthonormal bases of functions.
12th Spring Break.	13th Spring Break.	14th Spring Break.	16th Spring Break.
19th 48 Spectra of differential and Hermitian operators.	20th 49 Fourier series.	21st 50 Cont.	23rd 51 Homework 10 due. Fourier transforms.
26th 52 Dirac delta and fundamental solutions.	27th 53 Cont.	28th 54 Applications.	30th 55 Quiz 5. Homework 11 due. Cont.
May 3rd 56 Project and review.	4th 57 Project and review.	5th 58 Oral Exam 3	7th 59 Oral Exam 3