

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. Jacobian. Laplacian.</div>	<div>29th 7</div> <div>Homework 1 due. Cont.</div>
<div>Feb 1st 8</div> <div>Integration over curves.</div>	<div>2nd 9</div> <div>Cont.</div>	<div>3rd 10</div> <div>Potential functions and conservation.</div>	<div>5th 11</div> <div>Quiz 1.</div>
<div>8th 12</div> <div>Homework 2 due. Area and volume integrals.</div>	<div>9th 13</div> <div>Surfaces. Implicit and explicit parameterizations.</div>	<div>10th 14</div> <div>Tangent planes and normals.</div>	<div>12th 15</div> <div>Integration over surfaces and flux.</div>
<div>15th 16</div> <div>Cold day.</div>	<div>16th 17</div> <div>Cont.</div>	<div>17th 18</div> <div>Homework 3 due. Cylindrical coordinates.</div>	<div>19th 19</div> <div>Cont.</div>
<div>22nd 20</div> <div>Spherical coordinates.</div>	<div>23rd 21</div> <div>Open.</div>	<div>24th 22</div> <div>Open</div>	<div>26th 23</div> <div>Quiz 2. Homework 4 due.</div>
<div>Mar 1st 24</div> <div>Open.</div>	<div>2nd 25</div> <div>Open.</div>	<div>3rd 26</div> <div>Oral Exam 1.</div>	<div>5th 27</div> <div>Oral Exam 1.</div>
<div>8th 28</div> <div>Higher dimensional ODEs.</div>	<div>9th 29</div> <div>Cont.</div>	<div>10th 30</div> <div>Continuum limit and partial differential equations.</div>	<div>12th 31</div> <div>Homework 5 due. Example equations: Laplace/ Poisson's/ heat/ wave equation.</div>

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