

# Honors Linear Algebra Spring 2022 Schedule

January 2022						
◀ December						February ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17 MLK Day	18	19 First Day of Class Intro and expectations Before class: make an intro slide	20	21 Section 1.1: Systems of Linear Equations	22
23 Homework 1.1 Due at 11:59 pm ET	24 Section 1.2: Row Reduction and Echelon Forms	25	26 Section 1.3: Vector Equations	27	28 Section 1.3: Vector Equations	29
30 Homeworks 1.2 and 1.3 Due at 11:59 pm ET	31 Class in person in MONT 112 Section 1.4: The Matrix Equation $Ax = b$ Courses dropped after this date will have a "W"					

February 2022						
◀ January						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2 Section 1.5: Solutions Sets of Linear Systems	3	4 Section 1.7: Linear Independence	5
6 Homeworks 1.4, 1.5 and 1.7 Due at 11:59 pm ET	7 Quiz 1 Section 1.8: Introduction to Linear Transformations	8	9 Section 1.8: Introduction to Linear Transformations	10	11 Section 1.9: The Matrix of a Linear Transformation	12
13	14 Section 1.8: Introduction to Linear Transformations Section 1.9: The Matrix of a Linear Transformation Quiz 1 corrections and reflection due	15 Dean's signature required to add courses	16 Section 1.9: The Matrix of a Linear Transformation Section 2.1: Matrix Operations	17	18 Section 1.9: The Matrix of a Linear Transformation Section 2.1: Matrix Operations Section 2.2: The Inverse of a Matrix	19
20 Homeworks 1.8, 1.9, and 2.1 Due at 11:59 pm ET	21 Quiz 2 Section 2.1: Matrix Operations Section 2.2: The Inverse of a Matrix	22	23 Section 2.2: The Inverse of a Matrix and Section 2.3: Characterizations of Invertible Matrices	24	25 Section 3.1: Introduction to Determinants and Material from Section 3.3	26
27 Homeworks 2.2 and 2.3 Due at 11:59 pm ET	28 Quiz 2 corrections and reflection due Section 3.1: Introduction to Determinants and Material from Section 3.3					

March 2022						
◀ February						April ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2 Section 3.2: Properties of Determinants	3	4 Cross Products and Determinants Project	5
6 Homeworks 3.1 and 3.2 Due at 11:59 pm ET	7 Quiz 3 Section 4.1: Vector Spaces and Subspaces	8	9 Section 4.2: Null Spaces, Column Spaces, and Linear Transformations Section 4.3: Linearly Independent Sets	10	11 Section 4.3: Linearly Independent Sets Cross Products and Determinants Project due	12 Spring Break!
13 Spring Break!	14 Spring Break!	15 Spring Break!	16 Spring Break!	17 Spring Break!	18 Spring Break!	19 Spring Break!
20 Homeworks 4.1, 4.2, and 4.3 Due at 11:59 pm ET	21 Quiz 3 corrections and reflection due Primary Source Project: Wronskians and Linear Independence	22	23 Primary Source Project: Wronskians and Linear Independence	24	25 Section 4.4: Coordinate Systems	26
27 Homework 4.4 Due at 11:59 pm ET	28 Section 4.5: The Dimension of a Vector Space	29	30 Section 4.6: Change of Basis	31		

# April 2022

◀ March

May ▶

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					<b>1</b> Section 4.6: Change of Basis <b>Primary Source Project due</b>	<b>2</b>
<b>3</b> <b>Homeworks 4.5 and 4.6 Due at 11:59 pm ET</b>	<b>4</b> Section 5.1: Eigenvectors and Eigenvalues (“Eigen” is German for “own” or “inherent”)	<b>5</b>	<b>6</b> Section 5.2: The Characteristic Equation	<b>7</b>	<b>8</b> Section 5.2: The Characteristic Equation and Section 5.3: Diagonalization	<b>9</b>
<b>10</b> <b>Homeworks 5.1 and 5.2 Due at 11:59 pm ET</b>	<b>11</b> <b>Quiz 4</b> Section 5.3: Diagonalization Last day to withdraw from a course	<b>12</b>	<b>13</b> Section 5.4: Eigenvectors and Linear Transformations	<b>14</b>	<b>15</b> Section 5.4: Eigenvectors and Linear Transformations	<b>16</b>
<b>17</b> <b>Homeworks 5.3 and 5.4 Due at 11:59 pm ET</b>	<b>18</b> Section 6.1: Inner Product, Length, and Orthogonality	<b>19</b>	<b>20</b> Section 6.1: Inner Product, Length, and Orthogonality Section 6.2: Orthogonal Sets	<b>21</b>	<b>22</b> Section 6.2: Orthogonal Sets	<b>23</b>
<b>24</b> <b>Homeworks 6.1 and 6.2 Due at 11:59 pm ET</b>	<b>25</b> Section 6.3: Orthogonal Projections	<b>26</b>	<b>27</b> Section 6.3: Orthogonal Projections Section 6.4: The Projection Method	<b>28</b>	<b>29</b> <b>Last Day of Classes</b> Section 6.4: The Projection Method <b>Homeworks 6.3 and 6.4 Due at 11:59 pm ET</b>	<b>30</b>

May 2022						
◀ April						June ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
<b>1</b> Last day to complete homeworks 6.3 and 6.4 for full credit.	<b>2</b> Exam Week (Final Time and Place TBA)	<b>3</b> Exam Week (Final Time and Place TBA)	<b>4</b> Exam Week (Final Time and Place TBA)	<b>5</b> Exam Week (Final Time and Place TBA)	<b>6</b> Exam Week (Final Time and Place TBA)	<b>7</b> Exam Week (Final Time and Place TBA)
<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>
<b>29</b>	<b>30</b>	<b>31</b>				