

**Math 1502 C and J**  
**Spring 2004**  
**A. D. Andrew**

SHE refers to *Calculus, one and several variables, ninth edition*, by Salas, Hille, and Etgen.  
 CC refers to *Beginning with Linear Algebra, Fall 2003 edition*, by Carlen and Carvalho

Monday	Tuesday	Wednesday	Thursday	Friday
<b>5 January</b> Intro. SHE 8.7 Numerical Integration	<b>6</b>	<b>7</b> SHE 8.8 Differential Equations	<b>8</b>	<b>9</b> SHE 8.9 Differential Equations
<b>12</b> SHE 10.5-6. L'Hospital's Rule	<b>13</b>	<b>14</b> SHE 10.7 Improper Integrals	<b>15</b> Tell TA you Computer Project Team members	<b>16</b> SHE 11.5 Taylor Polynomials
<b>19</b> HOLIDAY	<b>20</b>	<b>21</b> SHE 11.6 Taylor Polynomials	<b>22</b>	<b>23</b> SHE 11.1 Infinite Series
<b>26</b> SHE 11.2 - 11.3 Convergence Tests	<b>27</b>	<b>28</b> SHE 11.4 Absolute and Conditional Convergence	<b>29</b>	<b>30</b> SHE 11.7 Power Series
<b>2 February</b> SHE 11.6 - 7 Power Series	<b>3</b>	<b>4</b> SHE 11.8 Power Series	<b>5</b> HOUR TEST 1	<b>6</b> CC Chap 1: Vector operations and linear transformations
<b>9</b> CC Chap 1: Vector operations and linear transformations	<b>10</b>	<b>11</b> CC Chap 1:: Matrix product	<b>12</b>	<b>13</b> DROP DAY CC Chap 1, SHE 12.4 Dot product, geometry of $\mathbf{R}^n$
<b>16</b> SHE 12.5 12.7 Geometry of $\mathbf{R}^n$	<b>17</b>	<b>18</b> CC Chap 1: Matrix multiplication revisited	<b>19</b> COMPUTER PROJECT 1 Due	<b>20</b> CC Chap 1: Linear transformations on $\mathbf{R}^n$
<b>23</b> CC Chap 2: Linear equations	<b>24</b>	<b>25</b> CC Chap 2: Systems of linear equations	<b>10</b>	<b>11</b> CC Chap 2: Row reduction
<b>1 March</b> Inverse matrices	<b>2</b>	<b>3</b> CC Chap 2: The LU factorization	<b>4</b>	<b>5</b> CC Chap 3: Subspaces and normal equations
<b>8</b> SPRING BREAK	<b>9</b> SPRING BREAK	<b>10</b> SPRING BREAK	<b>11</b> SPRING BREAK	<b>12</b> SPRING BREAK
<b>15</b> CC Chap 3: Linear independence, bases	<b>16</b>	<b>17</b> CC Chap 3: Dimension	<b>18</b> HOUR TEST 2	<b>25</b> CC Chap 3: Bases for images of transformations

<b>22</b> CC Chap 3: Bases for images of transformations	<b>23</b>	<b>24</b> CC Chap 3: Orthogonal Projections	<b>25</b>	<b>26</b> CC Chap 3: Gram-Schmidt process
<b>29</b> CC Chap 3: QR, Least squares	<b>30</b>	<b>31</b> CC Chap 3 Least squares	<b>1</b>	<b>2</b> CC Chap 4: Determinants and cross product
<b>5</b> CC Chap 4: Determinants and cross product	<b>6</b>	<b>7</b> CC Chap 5: Eigenvalues and Eigenvectors	<b>8</b> COMPUTER PROJECT 2 Due	<b>9</b> CC Chap 5: Eigenvalues and Eigenvectors
<b>12</b> CC Chap 5: Difference and differential equations	<b>13</b>	<b>14</b> CC Chap 5: Difference and differential equations	<b>21</b> HOUR TEST 3	<b>22</b> CC Chap 5: Diagonalizing symmetric matrices
<b>19</b> CC 5.5 Quadratic forms	<b>20</b>	<b>21</b> REVIEW	<b>22</b>	<b>23</b> REVIEW
<b>26</b> EXAM WEEK	<b>27</b> EXAM WEEK	<b>28</b> EXAM WEEK	<b>29</b> EXAM WEEK	<b>30</b> EXAM WEEK