

EAS Tuesdays 1 **Calculus Syllabus 2023-2024 (subject to small changes)**

Bandy/Owens

video total minutes practice

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<b>Chapter 1 - Introduction</b>			
before class begins!	<input type="checkbox"/> 1.1 Introduction to Calculus	28	
at home			
15-Aug week 1	<input type="checkbox"/> 1.2 Derivatives	80	32
1A			
22-Aug week 2	<input type="checkbox"/> 1.3 Definite Integrals	76	13
1B			
<b>Chapter 2 - Limits</b>			
29-Aug week 3	<input type="checkbox"/> 2.1 Introduction to Limits	15	
T1			
2A	<input type="checkbox"/> 2.2 A Graphical Look at Limits	60	13
<b>Chapter 3</b>			
5-Sep week 4	<input type="checkbox"/> 2.3 The Behavior of Rational Functions	40	
2B	<input type="checkbox"/> 2.4 The Limit Theorems	21	
2C	<input type="checkbox"/> 2.5 Evaluating Limits	50	15
12-Sep week 5	<input type="checkbox"/> 2.6 Continuity	34	15
2D	<input type="checkbox"/> 2.7 The Intermediate Value Theorem	41	
	<input type="checkbox"/> 2.8 Additional Practice	n/a	
19-Sep week 6	<input type="checkbox"/> 3.1 A Graphical Look at Derivatives	20	14
T3			
3A B	<input type="checkbox"/> 3.2 Difference Quotients	13	15
	<input type="checkbox"/> 3.3 The Derived Function	85	
26-Sep week 7	<input type="checkbox"/> 3.4 Numerical Calculation of Derivatives	24	
3C	<input type="checkbox"/> 3.5 Tangent Lines and Linear Approximation	24	
	<input type="checkbox"/> 3.6 Differentiability and Continuity	26	7
3-Oct week 8	<input type="checkbox"/> 3.7 The Chain Rule, Product Rule, and Quotient Rule	107	
3D			
10-Oct	<b>FALL BREAK - no class! Catch up on missing work.</b>		
17-Oct week 9	<input type="checkbox"/> 3.8 Derivatives of Trigonometric Functions	42	6
3E	<input type="checkbox"/> 3.9 Tangents, Normals, and Continuity	3	
24-Oct week 10	<input type="checkbox"/> 3.10 Implicit Differentiation	45	
3F G H	<input type="checkbox"/> 3.11 Derivatives of Inverse Functions	56	11
31-Oct week 11	<input type="checkbox"/> 4.1 The Extreme Value Theorem	18	
4A B C	<input type="checkbox"/> 4.2 Rolle`s Theorem and The Mean Value Theorem	40	46

<b>7-Nov week 12</b>	<input type="checkbox"/> 4.3 First and Second Derivatives	105	
T3			
4A B C			
<b>14-Nov week 13</b>	<input type="checkbox"/> 4.4 Derivatives, Graphs, and Curve Sketching	68	30
4D E	<input type="checkbox"/> 4.5 The Calculus of Motion	106	
<b>21-Nov off</b>	<b>Thanksgiving Break</b>		
<b>28-Nov week 14</b>	<input type="checkbox"/> 4.6 Max-Min Problems	50	11
4F G H	<input type="checkbox"/> 4.7 Related Rates	79	40
<b>5-Dec</b>	<input type="checkbox"/> 4.8 Practice, finish related rates, review for exam		
T4	<b>midterm exams due by 12/16/2023</b>		
<b>2-Jan week 15</b>	<input type="checkbox"/> 5.1 Antiderivatives - watch at home before we begin class	20	29
5A	<i>No class meeting this week - enjoy your break through Epiphany!</i>		
<b>9-Jan week 16</b>	<input type="checkbox"/> 5.2 Antiderivatives and Indefinite Integrals	61	17
5B	<input type="checkbox"/> 5.3 Riemann Sums	42	21
<b>16-Jan week 17</b>	<input type="checkbox"/> 5.4 The Fundamental Theorem of Calculus	62	48
5C D E	<input type="checkbox"/> 5.5 Properties of Definite Integrals	24	23
<b>23-Jan week 18</b>	<input type="checkbox"/> 5.6 Numerical Methods of Integration	19	
5F G	<input type="checkbox"/> 5.7 Integration by Substitution	38	8
	<input type="checkbox"/> 5.8 Average Value	23	8
<b>30-Jan week 19</b>	<input type="checkbox"/> 6.1 Introduction	7	
T5	<input type="checkbox"/> 6.2 The Derivative of $e^x$	6	
6A B	<input type="checkbox"/> 6.3 Derivatives of Logarithmic Functions	42	13
	<input type="checkbox"/> 6.4 Derivatives and Integrals of Base b Exponents	16	
<b>6-Feb week 20</b>	<input type="checkbox"/> 6.5 Integrals with Variable Limits	32	
6C	<input type="checkbox"/> 6.6 Logarithmic Differentiation	23	
<b>13-Feb off</b>	<b>Winter Break</b>		
<b>20-Feb week 21</b>	<input type="checkbox"/> 6.7 Integrals of Trig Functions	13	29
6D	<input type="checkbox"/> 6.8 L'Hopital's Rule	83	
<b>27-Feb week 22</b>	<input type="checkbox"/> 6.9 Introduction to Differential Equations	23	
6E F G H	<input type="checkbox"/> 6.10 Examples and Applications of Differential Equations	84	
<b>5-Mar</b>			
<b>week 23</b>	<input type="checkbox"/> 6.11 Slope Fields	34	26
	<input type="checkbox"/> 6.12 Euler's Identity	13	

<b>12-Mar week 24</b>	<input type="checkbox"/> 7.1 The Area of a Plane Region	41
T6 7A		
<b>19-Mar week 25</b>	<input type="checkbox"/> 7.2 The Calculus of Motion	93
7B C D		
<b>26-Mar week 26</b>	<input type="checkbox"/> 7.3 Real World Applications of Integration	52
7E F		
<b>2-Apr off</b>	<b>Spring Break (work ahead on 7.4 if you're taking the AP exam!)</b>	
<b>9-Apr week 27</b>	<input type="checkbox"/> 7.4 Integrating to find Volumes	183
7G H I		
<b>16-Apr week 28</b>	AP review	
(T7)		
<b>23-Apr week 29</b>	AP review	
<b>30-Apr week 30</b>	AP review	
<b>6-May</b>	AP Exam!	
<b>7-May week 31</b>	Final exam review day in class	
<b>final exam due by 5/24/2024 - AP exam or senior with an A avg exempt from final exam.</b>		