EAS		Calculus Syllabus 2022-2023 (subject to small changes)		
Bandy/Owens			video total minutes	practice
		☐ Chapter 1 - Introduction		
	at home	☐ 1.1 Introduction to Calculus	28	
18-Aug	**week 1**	☐ 1.2 Derivatives	80	32
	1A			
25-Aug	**week 2**	☐ 1.3 Definite Integrals	76	13
	1B			
1-Sep	**week 3**	☐ Chapter 2 - Limits		
	T1	☐ 2.1 Introduction to Limits	15	
	2A	☐ 2.2 A Graphical Look at Limits	60	13
8-Sep	**week 4**	☐ 2.3 The Behavior of Rational Functions	40	
	2B	☐ 2.4 The Limit Theorems	21	
	2C	☐ 2.5 Evaluating Limits	50	15
15-Sep	**week 5**	☐ 2.6 Continuity	34	15
AT HOME	2D	☐ 2.7 The Intermediate Value Theorem	41	
		☐ 2.8 Additional Practice	n/a	
22-Sep	**week 6**	☐ 3.1 A Graphical Look at Derivatives	20	14
	T3	☐ 3.2 Difference Quotients	13	15
	3A B	☐ 3.3 The Derived Function	85	
29-Sep	**week 7**	☐ 3.4 Numerical Calculation of Derivatives	24	
	3C	☐ 3.5 Tangent Lines and Linear Approximation	24	
		☐ 3.6 Differentiability and Continuity	26	7
6-Oct	**week 8**	☐ 3.7 The Chain Rule, Product Rule, and Quotient Rule	107	
	3D			
13-Oct		FALL BREAK - no class! Catch up on missing work.		
20-Oct	**week 9**	☐ 3.8 Derivatives of Trigonometric Functions	42	6
	3E	(AT HOME OR IN CLASS)		
27-Oct	**week 10**	☐ 3.9 Tangents, Normals, and Continuity	3	
	3F G H	☐ 3.10 Implicit Differentiation	45	
3-Nov	**week 11**	☐ 3.11 Derivatives of Inverse Functions	56	11
	4A B C	☐ 4.1 The Extreme Value Theorem	18	
10-Nov	**week 12**	☐ 4.2 Rolle`s Theorem and The Mean Value Theorem	40	46
	T3	☐ 4.3 First and Second Derivatives	105	
	4A B C			

17-Nov	**week 13**	☐	4.4 Derivatives, Graphs, and Curve Sketching	68	30
	4D E	☐	4.5 The Calculus of Motion	106	
24-Nov	**off**		Thanksgiving Break		
1-Dec	**week 14**	☐	4.6 Max-Min Problems	50	11
	4F G H	☐	4.7 Related Rates	79	40
		☐	4.8 Practice	n/a	
8-Dec	T4		Exam Review Day		
			midterm exams due by 12/17/2021		
5-Jan	**week 15**	☐	5.1 Antiderivatives	20	29
	5A B	☐	5.2 Antiderivatives and Indefinite Integrals	61	17
12-Jan	**week 16**	☐	5.3 Riemann Sums	42	21
	5C D E	☐	5.4 The Fundamental Theorem of Calculus	62	48
19-Jan	**week 17**	☐	5.5 Properties of Definite Integrals	24	23
	5F G	☐	5.6 Numerical Methods of Integration	19	
26-Jan	**week 18**	☐	5.7 Integration by Substitution	38	8
		☐	5.8 Average Value	23	8
		☐	6.1 Introduction	7	
		☐	6.2 The Derivative of e^x	6	
2-Feb	**week 19**	☐	6.3 Derivatives of Logarithmic Functions	42	13
	T5	☐	6.4 Derivatives and Integrals of Base b Exponents	16	
	6A B	☐	6.5 Integrals with Variable Limits	32	
9-Feb	**week 20**	☐	6.6 Logarithmic Differentiation	23	
	6C	☐	6.7 Integrals of Trig Functions	13	29
16-Feb	**off**		Winter Break		
23-Feb	**week 21**	☐	6.8 L'Hopital's Rule	83	
	6D				
2-Mar	**week 22**	☐	6.9 Introduction to Differential Equations	23	
	6E F G H	☐	6.10 Examples and Applications of Differential Equations	84	
9-Mar	**week 23**	☐	6.11 Slope Fields	34	26
		☐	6.12 Euler's Identitiy	13	
16-Mar	**week 24**	☐	7.1 The Area of a Plane Region	41	

	T6 7A		
23-Mar	**week 25** 7B C D	☐ 7.2 The Calculus of Motion	93
30-Mar	**week 26** 7E F	☐ 7.3 Real World Applications of Integration	52
6-Apr	**off**	Spring Break (work ahead on 7.4 if you're taking the AP exam!)	
13-Apr	**week 27** 7G H I	☐ 7.4 Integrating to find Volumes	183
20-Apr	**week 28** (T7)	AP review	
27-Apr	**week 29**	AP review	
4-May	**week 30**	AP review	
8-May		AP Exam!	
11-May	**week 31**	Final exam review day in class	
	final exam due by 5/27/2022 - AP exam or senior with an A avg exempt from final exam.		