

Calculus Syllabus 2025-26 (subject to small changes)

Bandy/Owens

Eastside Academic Studies - Thursdays, 11:15-12:45

Fall Semester

before class begins!

at home	week 1	<input type="checkbox"/> Chapter 1 - Introduction	vid min	practice
		<input type="checkbox"/> 1.1 Introduction to Calculus	28	vids
20-Aug	week 2	<input type="checkbox"/> 1.2 Derivatives	80	32
1A				
27-Aug	week 3	<input type="checkbox"/> 1.3 Definite Integrals	76	13
1B				
3-Sep	week 4	<input type="checkbox"/> Chapter 2 - Limits		
T1		<input type="checkbox"/> 2.1 Introduction to Limits	15	
2A		<input type="checkbox"/> 2.2 A Graphical Look at Limits	60	13
10-Sep	week 5	<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
17-Sep	week 6	<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	
	week 7	<input type="checkbox"/> Chapter 3 - Derivatives		
24-Sep	T3	<input type="checkbox"/> 3.1 A Graphical Look at Derivatives	20	14
3A B		<input type="checkbox"/> 3.2 Difference Quotients	13	15
		<input type="checkbox"/> 3.3 The Derived Function	85	
	week 8	<input type="checkbox"/> 3.4 Numerical Calculation of Derivatives	24	
1-Oct	3C	<input type="checkbox"/> 3.5 Tangent Lines and Linear Approximation	24	
		<input type="checkbox"/> 3.6 Differentiability and Continuity	26	7
8-Oct	week 9	<input type="checkbox"/> 3.7 The Chain Rule, Product Rule, and Quotient Rule	107	
3D				
15-Oct		FALL BREAK - no class! Catch up on missing work.		
22-Oct	week 10	<input type="checkbox"/> 3.8 Derivatives of Trigonometric Functions	42	6
3E		<input type="checkbox"/> 3.9 Tangents, Normals, and Continuity	3	
29-Oct	week 11	<input type="checkbox"/> 3.10 Implicit Differentiation	45	
3F G H		<input type="checkbox"/> 3.11 Derivatives of Inverse Functions	56	11
5-Nov	week 12	<input type="checkbox"/> Chapter 4 - applications of derivatives	18	
4A B C		<input type="checkbox"/> 4.1 The Extreme Value Theorem	40	46
		<input type="checkbox"/> 4.2 Rolle's Theorem and The Mean Value Theorem		
12-Nov	week 13	<input type="checkbox"/> 4.3 - First and Second Derivatives	105	
T3 4A B C				
19-Nov	week 14	<input type="checkbox"/> 4.4 Derivatives, Graphs, and Curve Sketching	68	30
4D E		<input type="checkbox"/> 4.5 The Calculus of Motion	106	
26-Nov	off	Thanksgiving Break		
3-Dec	week 15	<input type="checkbox"/> 4.6 Max-Min Problems	50	11
4F G H		<input type="checkbox"/> 4.7 Related Rates	79	40
10-Dec	week 16	<input type="checkbox"/> 4.8 Practice, finish related rates		
T4		midterm exams due by 12/19/2025		

7-Jan week 17	<input type="checkbox"/> 5.1 Antiderivatives	20	29
5A			
14-Jan week 18	<input type="checkbox"/> 5.2 Antiderivatives and Indefinite Integrals	61	17
5B	<input type="checkbox"/> 5.3 Riemann Sums	42	21
21-Jan week 19	<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
28-Jan week 20	<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
4-Feb week 21	<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	
11-Feb week 22	<input type="checkbox"/> 6.5 Integrals with Variable Limits	32	
6C	<input type="checkbox"/> 6.6 Logarithmic Differentiation	23	
18-Feb off	Winter Break		
25-Feb week 23	<input type="checkbox"/> 6.7 Integrals of Trig Functions	13	29
6D	<input type="checkbox"/> 6.8 L'Hopital's Rule	83	
4-Mar week 24	<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	
11-Mar week 25	<input type="checkbox"/> 6.11 Slope Fields	34	26
	<input type="checkbox"/> 6.12 Euler's Identity	13	
18-Mar week 26	<input type="checkbox"/> 7.1 The Area of a Plane Region	41	
T6 7A	<input type="checkbox"/> 7.2 BEGIN The Calculus of Motion	93	
25-Mar week 27	finish 7.2 at home!	52	
7B C D	<input type="checkbox"/> 7.3 Real World Applications of Integration		
1-Apr week 28	<input type="checkbox"/> 7.4 Integrating to find Volumes - disk and washer method	90	
7E F			
8-Apr off	Spring Break (work ahead on 7.4 if you're taking the AP exam!)		
15-Apr week 29	<input type="checkbox"/> 7.4 Integrating to find Volumes - cylindrical shell method	93	
7G H I			
22-Apr week 30	AP review - Multiple Choice with calculator (T7)		
29-Apr week 31	AP review - Multiple Choice without calculator		
6-May week 32	AP review - Free Response		
12-May check date - AP EXAM!			
final exam due by 5/22/2026 - AP exam or senior with an A avg exempt from final exam.			