

Calculus Syllabus 2026-27 (subject to small changes)

Bandy/Owens

Eastside Academic Studies

Fall Semester

before class begins!

at home	week 1	☐ Chapter 1 - Introduction	vid min	practice
		☐ 1.1 Introduction to Calculus	28	vids
8/20/2026	week 2	☐ 1.2 Derivatives	80	32
	1A			
8/27/2026	week 3	☐ 1.3 Definite Integrals	76	13
	1B			
9/3/2026	week 4	☐ Chapter 2 - Limits		
	T1	☐ 2.1 Introduction to Limits	15	
	2A	☐ 2.2 A Graphical Look at Limits	60	13
9/10/2026	week 5	☐ 2.3 The Behavior of Rational Functions	40	
	2B	☐ 2.4 The Limit Theorems	21	
	2C	☐ 2.5 Evaluating Limits	50	15
9/17/2026	week 6	☐ 2.6 Continuity	34	15
	2D	☐ 2.7 The Intermediate Value Theorem	41	
		☐ 2.8 Additional Practice	n/a	
9/24/2026	week 7	☐ Chapter 3 - Derivatives		
	T3	☐ 3.1 A Graphical Look at Derivatives	20	14
	3A B	☐ 3.2 Difference Quotients	13	15
		☐ 3.3 The Derived Function	85	
10/1/2026	week 8	☐ 3.4 Numerical Calculation of Derivatives	24	
	3C	☐ 3.5 Tangent Lines and Linear Approximation	24	
		☐ 3.6 Differentiability and Continuity	26	7
10/8/2026	week 9	☐ 3.7 The Chain Rule, Product Rule, and Quotient Rule	107	
	3D			
10/15/2026		FALL BREAK - no class! Catch up on missing work.		
10/22/2026	week 10	☐ 3.8 Derivatives of Trigonometric Functions	42	6
	3E	☐ 3.9 Tangents, Normals, and Continuity	3	
10/29/2026	week 11	☐ 3.10 Implicit Differentiation	45	
	3F G H	☐ 3.11 Derivatives of Inverse Functions	56	11
11/5/2026	week 12	☐ Chapter 4 - applications of derivatives	18	
	4A B C	☐ 4.1 The Extreme Value Theorem	40	46
		☐ 4.2 Rolle's Theorem and The Mean Value Theorem		
11/12/2026	week 13	☐ 4.3 - First and Second Derivatives	105	
	T3 4A B C			
11/19/2026	week 14	☐ 4.4 Derivatives, Graphs, and Curve Sketching	68	30
	4D E	☐ 4.5 The Calculus of Motion	106	
11/26/2026	off	Thanksgiving Break		
12/3/2026	week 15	☐ 4.6 Max-Min Problems	50	11
	4F G H	☐ 4.7 Related Rates	79	40
12/10/2026	week 16	☐ 4.8 Practice, finish related rates		
	T4	midterm exams due by 12/19/2025		

Spring Semester!

1/7/2027	week 17	☐ 5.1 Antiderivatives	20	29
	5A			
1/14/2027	week 18	☐ 5.2 Antiderivatives and Indefinite Integrals	61	17
	5B	☐ 5.3 Riemann Sums	42	21
1/21/2027	week 19	☐ 5.4 The Fundamental Theorem of Calculus	62	48
	5C D E	☐ 5.5 Properties of Definite Integrals	24	23
1/28/2027	week 20	☐ 5.6 Numerical Methods of Integration	19	
	5F G	☐ 5.7 Integration by Substitution	38	8
		☐ 5.8 Average Value	23	8
2/4/2027	week 21	☐ 6.1 Introduction	7	
	T5	☐ 6.2 The Derivative of e^x	6	
	6A B	☐ 6.3 Derivatives of Logarithmic Functions	42	13
		☐ 6.4 Derivatives and Integrals of Base b Exponents	16	
2/11/2027	week 22	☐ 6.5 Integrals with Variable Limits	32	
	6C	☐ 6.6 Logarithmic Differentiation	23	
2/18/2027	off	Winter Break		
2/25/2027	week 23	☐ 6.7 Integrals of Trig Functions	13	29
	6D	☐ 6.8 L'Hopital's Rule	83	
3/4/2027	week 24	☐ 6.9 Introduction to Differential Equations	23	
	6E F G H	☐ 6.10 Examples and Applications of Differential Equations	84	
3/11/2027	week 25	☐ 6.11 Slope Fields	34	26
		☐ 6.12 Euler's Identity	13	
3/18/2027	week 26	☐ 7.1 The Area of a Plane Region	41	
	T6 7A	☐ 7.2 BEGIN The Calculus of Motion	93	
3/25/2027	week 27	finish 7.2 at home!	52	
	7B C D	☐ 7.3 Real World Applications of Integration		
4/1/2027	week 28	☐ 7.4 Integrating to find Volumes - disk and washer method	90	
	7E F			
4/8/2027	off	Spring Break (work ahead on 7.4 if you're taking the AP exam!)		
4/15/2027	week 29	☐ 7.4 Integrating to find Volumes - cylindrical shell method	93	
	7G H I			
4/22/2027	week 30	AP review - Multiple Choice with calculator		
	(T7)			
4/29/2027	week 31	AP review - Multiple Choice without calculator		
5/6/2027	week 32	AP review - Free Response		

Monday 5/11

AP Exam!!

final exam due by 5/22/2026 - AP exam or senior with an A avg exempt from final exam.