Advanced Calculus 2 Summer Study Plan

A Comprehensive Guide to Mastering Calculus 2 Topics

Generated on June 21, 2025

Study Plan Overview

• Total Calculus 2 Study Time: 237.5 hours

Daily Calculus Study: 3 hours/day

Daily Video Editing: 2 hours/day

Available Study Days: 71 days

• Study Period: Through September 2024

Daily Schedule Template

Time Slot	Activity	Description
10:00 - 11:00 AM	Calculus 2 Study	Focus on current unit topics with Khan
11:00 - 11:30 AM	Light Workout/Break	Physical activity to refresh mind and
11:30 AM - 12:30 PM	Video Editing Work	Part-time job responsibilities
12:30 - 2:00 PM	Lunch & Break	Meal time and personal break
2:00 - 4:00 PM	Deep Calculus 2 Study	Problem solving, practice exercises,
4:00 - 5:00 PM	Video Editing Work	Continue part-time job work
Evening	Free Time/Review	Optional review or personal time

Calculus 2 Curriculum Focus

1. Integrals review

• Estimated Time: 45 hours

Topics: 18 topicsTarget Week: 1

2. Integration techniques

• Estimated Time: 25 hours

Topics: 10 topicsTarget Week: 2

3. Differential equations

• Estimated Time: 27.5 hours

Topics: 11 topicsTarget Week: 3

4. Applications of integrals

• Estimated Time: 47.5 hours

Topics: 19 topicsTarget Week: 4

5. Parametric equations, polar coordinates, and vector-valued functions

• Estimated Time: 37.5 hours

Topics: 15 topicsTarget Week: 5

6. Series

• Estimated Time: 55 hours

Topics: 22 topicsTarget Week: 6

Weekly Goals & Targets

Week 1 (6/15/2025 - 6/21/2025)

• Goal: Complete 1 topics from Integrals review

• Unit: Unit 1: Integrals review

• Study Hours: 3h (1 days x 3h/day)

• Topics: Accumulations of change introduction

Note: Only 1 study days this week due to constraints

Week 2 (6/22/2025 - 6/28/2025)

• Goal: Complete 8 topics from Integrals review

• Unit: Unit 1: Integrals review

• Study Hours: 21h (7 days x 3h/day)

• Topics: Accumulations of change introduction, Approximation with Riemann sums...

Week 3 (6/29/2025 - 7/5/2025)

- Goal: Complete 8 topics from Integrals review
- Unit: Unit 1: Integrals review
- Study Hours: 21h (7 days x 3h/day)
- Topics: Accumulations of change introduction, Approximation with Riemann sums...

Week 4 (7/6/2025 - 7/12/2025)

- Goal: Complete 8 topics from Integration techniques
- Unit: Unit 2: Integration techniques
- Study Hours: 21h (7 days x 3h/day)
- Topics: Integrating with u-substitution, Integrating using long division and completing the square...

Week 5 (7/13/2025 - 7/19/2025)

- Goal: Complete 8 topics from Integration techniques
- Unit: Unit 2: Integration techniques
- Study Hours: 21h (7 days x 3h/day)
- Topics: Integrating with u-substitution, Integrating using long division and completing the square...

Week 6 (7/20/2025 - 7/26/2025)

- Goal: Complete 2 topics from Differential equations
- Unit: Unit 3: Differential equations
- Study Hours: 6h (2 days x 3h/day)
- Topics: Differential equations introduction, Verifying solutions for differential equations

Note: Only 2 study days this week due to constraints

Major Milestones

7/6/2025: Complete Integrals review

Progress: 19% (45.0h total)

7/15/2025: Complete Integration techniques

Progress: 29% (70.0h total)

8/10/2025: Complete Differential equations

Progress: 41% (97.5h total)

8/26/2025: Complete Applications of integrals

Progress: 61% (145.0h total)

9/8/2025: Complete Parametric equations, polar coordinates, and vector-valued functions

Progress: 77% (182.5h total)

9/19/2025: Complete Series

Progress: 100% (237.5h total)

Success Strategies

- Morning session (10-11am): Watch Khan Academy videos & take notes
- Afternoon session (2-4pm): Practice problems & work through exercises
- Take detailed notes and create summary sheets for each topic
- Review previous topics for 15 minutes each week
- Use Khan Academy mobile app during breaks for quick reviews
- · Focus on understanding concepts, not just memorizing formulas
- Track your progress and adjust timeline if needed

Priority Focus Areas

- Integration techniques and applications (highest priority)
- Sequences and series convergence tests
- Parametric equations and polar coordinate systems
- Real-world applications of calculus concepts

Generated by Advanced Calculus 2 Planner
Remember: Consistency and understanding are key to success!