<table>
<thead>
<tr>
<th>Unit</th>
<th>length of time in weeks</th>
<th>Concepts &amp; Competencies</th>
<th>Common Assessments</th>
<th>Academic Standards AP Calculus BC National Framework</th>
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</table>
| Unit 1 | 3                       | **Techniques of Integration**                                    | ➢ Integration Techniques Quiz  
➢ Partial Fractions Quiz  
➢ Techniques of Integration Test                                                      | EU 2.3  
EU 3.1  
EU 3.2  
EU 3.3 |
| Unit 2 | 2                       | **Mathematical Modeling**                                         | ➢ Mathematical Modeling Test                                                        | EU 2.3  
EU 3.5 |
| Unit 3 | 4                       | **Integral Applications**                                          | ➢ Geometric Applications of Integrals Quiz  
➢ Integral Applications Test  
➢ Marking Period 1 Exam (Cumulative)                                                  | EU 3.4 |
| Unit 4 | 4                       | **L'Hospital's Rule**                                               | ➢ L'Hospital's Rule and Relative Growth Rates Quiz  
➢ Chapter 8 Test                                                                  | EU 1.1  
EU 3.2 |
| Unit 5 | 9                       | **Infinite Series**                                                | ➢ 9.1-9.2 Quiz  
➢ Section 9.3 Quiz  
➢ Midterm Exam (Cumulative)  
➢ Chapter 9 Test                                                                      | EU 4.1  
EU 4.2 |
function. Students will determine the radius and interval of convergence of a power series.

| Unit 6 | Polar, Parametric, and Vector Functions | 10.1-10.3 Quiz
|        | Students will calculate derivatives. Students will use derivatives to analyze properties of a function. Students will solve problems involving related rates, optimization, rectilinear motion, and planar motion. Students will apply definite integrals to problems involving motion. Students will apply definite integrals to problems involving area, volume, and length of a curve. | EU 2.1
|        | Section 10.5-10.6 Quiz | EU 2.2
|        | Marking Period 3 Exam (Cumulative) | EU 2.3
|        | 7 | EU 3.4 |