

## AP Calculus BC Topic List

### **Unit 1 Integration and Perimeter/Area/Volume from a Region FRQ's**

- Integration by Parts
- Trig Integrals
- Partial Fractions
- Improper Integrals
- Given a region find Perimeter/Area/Volume

### **Unit 2 Series and Sequences and Rate In/Rate Out FRQ's**

- Sequences
- Series and Convergence
- Integral Test and P-Series
- Comparison of Series
- Ratio and Root Tests
- Rate In/Rate Out

### **Unit 3 Taylor and Maclaurin Series and Table FRQ's**

- Taylor Polynomials and Approximations
- Power Series
- Representations of Functions by Power Series
- Taylor and Maclaurin Series
- Table FRQ's

### **Unit 4 Polar and Parametric and Graphing FRQ's**

- Parametric Equations
- Polar Coordinates
- Polar Area
- Graphing FRQ's