Algebra IIB Standards and Learning Targets

**Students will be able to:**

**5. Rational expressions and exponents**

5.0 Mixed factoring

5.1 Factoring sum/difference of cubes

5.3A Simplify rational expressions and find excluded values

5.3 B Multiply and divide rational expressions

5.4 Rational exponents and finding real roots

**6. Functions**

6.0 Function notation

6.1 Add, subtract, multiply or divide using function notation

6.2 Evaluate composite functions

6.3 Graph inverse functions

6.4 Find the inverse of a function

**7. Logs**

7.1 Transform between log form and exponential form

7.2 Apply properties of logs

7.3 Solve logarithmic equations

7.4 Applications to logs/exponential functions

**8. Intro to Conics**

8.1 Graph a circle from an equation

8.2 Write the equation of the circle given the center and radius

8.3 Write the equation of a circle given a translation

8.4A Write the equation of a circle given the ends of a diameter

8.4B Write the equation of a circle given the center and a point on the circle

8.5 Graph an ellipse from an equation