

Course Calendar for **Pre-Calculus** (MPS21-01)  
2018-19 School Year

**Teachers:**

**Textbook:**

| Week Beginning Monday... | Topic  | Textbook Sections                 |
|--------------------------|--|-----------------------------------|
| Sept 3<br>x M, T         | Class Room Norming   |                                   |
| Sept 10<br>x M, T        | Team Building: Logic Puzzles   |                                   |
| Sept 17<br>x W           | Polynomial Operations  | Sec 2                             |
| Sept 24                  | Factoring  | Sec 2                             |
| Oct 1                    | Simplify Rational expressions  | Sec 2                             |
| Oct 8<br>x M             | Rational Equations: Rational Inequalities<br>Solve Rational and Absolute Value equations and inequalities                      | Sec 1 sec 2                       |
| Oct 15                   | Solve Quadratic Equations<br>Zero Property<br>Square Root Method<br>By factoring<br>Complete the square<br>Quadratic Equations | Sec 1 sec 2                       |
| Oct 22                   | Solve quadratic inequalities   | Sec 2                             |
| Oct 29                   | Imaginary Number System  | Sec 2.4                           |
| Nov 5<br>x T             | Functions  | Sec 1                             |
| Nov 12<br>x M            | Functions  | Sec 2                             |
| Nov 19<br>x R,F          | Exponential and Logarithmic Functions  | Sec 3                             |
| Nov 26                   | Exponential and Logarithmic Functions  | Sec 3                             |
| Dec 3                    | Trig Functions   | Sec 4                             |
| Dec 10                   | Analytic Trig Functions<br>Identities<br>Sum and Difference Formulas<br>Multiple-Angle $\frac{1}{2}$ Angle formulas            | Sec 5.1<br>5.2<br>5.4<br>5.5      |
| Dec 17                   | Trig Topics<br>Law of sines<br>Law of cosines<br>Vectors and Dot Products<br>Trig form of complex numbers                      | Sec 6<br>6.1<br>6.2<br>6.4<br>6.5 |
| Dec 24                   | Winter Recess  |                                   |
| Dec 31<br>x M, T         | Linear Systems   | Sec7                              |
| Jan 7                    | Linear Systems Matrices  | Sec 7.4                           |

|   |   |  |
|---|---|--|
|   | Operations with matrices<br>Inverse<br>Determinant<br>Applications  | 7.5<br>7.6<br>7.7<br>7.8                   |
| Jan 14                                    | Linear Systems Matrices<br>Operations with matrices<br>Inverse<br>Determinant<br>Applications             | Sec 7.4<br>7.5<br>7.6<br>7.7<br>7.8        |
| Jan 21<br>x M                             | Regents Exams   |  |
| Jan 28<br>x M                             | Sequences and Series<br>Arithmetic<br>Geometric<br>Binomial Theorem<br>Counting Principles<br>Probability | Sec 8.1<br>8.2<br>8.3<br>8.4<br>8.5<br>8.6 |
| Feb 4<br>x T                              | Sequences and Series<br>Arithmetic<br>Geometric<br>Binomial Theorem<br>Counting Principles<br>Probability | Sec 8.1<br>8.2<br>8.3<br>8.4<br>8.5<br>8.6 |
| Feb 11                                    | Analytic Geometry   | Sec 9                                      |
| Feb 18                                    | Midwinter Recess  |  |
| Feb 25                                    | Analytic Geometry   | Sec 9                                      |
| Mar 4                                     | Analytic Geometry In 3 Dimensions   | Sec 10                                     |
| Mar 11                                    | Analytic Geometry In 3 Dimensions   | Sec 10                                     |
| Mar 18                                    | Analytic Geometry In 3 Dimensions   | Sec 10                                     |
| Mar 25                                    | Analytic Geometry In 3 Dimensions   | Sec 10                                     |
| Apr 1                                     | Intro Limits and Calculus   | Sec 11                                     |
| Apr 8                                     | Limits  | Sec 11                                     |
| Apr 15<br>x F                             | Evaluating Limits   | Sec 11.2                                   |
| Apr 22                                    | Spring Recess   |  |
| Apr 29                                    | Evaluating Limits   | Sec 11.2                                   |
| May 6                                     | Tangents  | Sec 11.3                                   |
| May 13                                    | Tangents  | Sec 11.3                                   |
| May 20                                    | Limits at Infinity  | Sec 11.4                                   |
| May 27<br>x M                             | Limits at Infinity  | Sec 11.4                                   |
| June 3<br>x M (Global<br>Regents), x T, R | Area  |  |
| June 10                                   | Area  |  |

### Grading Rubric

|                                  |     |
|----------------------------------|-----|
| Classwork/Participation:         | 20% |
| Homework:                        | 20% |
| Assessment (Exam/Quiz/Projects): | 60% |