The following is a *tentative* schedule for Math 3C in Winter 2019:

| Monday | Tuesday | Wednesday | Thursday | Friday |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{cc} \hline \hline \mathbf{1 / 7} \quad \text { Lecture 1 } \\ \text { Introduction; } \\ \S 1.3 & \text { Inequalities } \end{array}$ | $\begin{gathered} \hline \hline 1 / 8 \\ \begin{array}{c} \text { Discussion } \\ \text { Section } \end{array} \end{gathered}$ | $\begin{gathered} \hline \hline \mathbf{1 / 9} \\ \text { Lecture } 2 \\ \text { §1.3 } \\ \text { absolute value } \end{gathered}$ | $\begin{gathered} \hline \hline 1 / \mathbf{1 0} \quad \text { Lecture } 3 \\ \S 1.3-2.1 \text { - The } \\ \text { coordinate plane } \end{gathered}$ | 1/11 Lecture 4 <br> §2.1 continued |
| $\begin{gathered} \hline \mathbf{1 / 1 4} \quad \text { Lecture } 5 \\ \S 2.2-\text { Lines } \end{gathered}$ | $\begin{aligned} & 1 / 15 \\ & \text { Discussion } \\ & \text { Section } \end{aligned}$ | $\begin{gathered} \text { 1/16 } \quad \text { Lecture } 6 \\ \text { HW 1 due } \\ \S 2.3-\text { Quadratic } \\ \text { expressions, circles } \end{gathered}$ | $\begin{gathered} \hline \mathbf{1 / 1 7} \quad \text { Lecture } 7 \\ \S 2.3 \text { continued } \end{gathered}$ | $\mathbf{1 / 1 8} \quad$ Lecture 8 <br> $\S 3.1$ - Functions |
| 1/21 <br> Martin Luther <br> King Jr. Day (no class) | $\begin{gathered} 1 / 22 \\ \begin{array}{c} \text { Discussion } \\ \text { Section } \end{array} \end{gathered}$ | $\begin{gathered} \text { 1/23 } \quad \text { Lecture } 9 \\ \begin{array}{\|l} \text { HW } 2 \text { due } \\ \S 3.1-3.2 ~-~ G r a p h ~ \\ \text { transformations } \end{array} \end{gathered}$ | $\mathbf{1 / 2 4} \quad \text { Lecture } 10$ <br> $\S 3.2$ continued | $\begin{gathered} 1 / \mathbf{2 5} \quad \text { Lecture } 11 \\ \text { Catch-up } \\ \text { \& Review } \end{gathered}$ |
| $\begin{gathered} \hline \mathbf{1 / 2 8} \quad \text { Lecture } 12 \\ \hline \text { Midterm 1 } \\ \hline \end{gathered}$ | $\begin{aligned} & \hline 1 / 29 \\ & \begin{array}{c} \text { Discussion } \\ \text { Section } \end{array} \end{aligned}$ | $\mathbf{1 / 3 0} \quad$ Lecture 13 HW 3 due $\S 3.3$ - Function composition | $\begin{gathered} \hline 1 / 31 \quad \text { Lecture } 14 \\ \S 3.4 \text { - Inverse } \\ \text { functions } \end{gathered}$ | 2/1 Lecture 15 <br> $\S 3.5$ - A graphical approach to inverse functions |
| $\begin{gathered} 2 / 4 \\ \begin{array}{c} \text { §4.1-Integer } \\ \text { exponents } \end{array} \end{gathered}$ | $\begin{gathered} \text { 2/5 } \\ \begin{array}{c} \text { Discussion } \\ \text { Section } \end{array} \\ \end{gathered}$ | $\begin{gathered} \mathbf{2 / 6} \quad \text { Lecture } 17 \\ \begin{array}{l} \text { HW 4 due } \\ \S 4.2-\text { Polynomials } \end{array} \end{gathered}$ | $\begin{gathered} \hline 2 / 7 \\ \S 4.3-\text { Rational } \\ \text { functions } \end{gathered}$ | $\begin{array}{cc} 2 / 8 & \text { Lecture } 19 \\ \S 5.1 \text { - Exponential } \\ \text { functions } \end{array}$ |
| $\begin{array}{cc} \hline \mathbf{2 / 1 1} & \text { Lecture } 20 \\ \S 5.2 & \text { Logarithms } \end{array}$ | $\begin{aligned} & \text { 2/12 } \\ & \begin{array}{c} \text { Discussion } \\ \text { Section } \end{array} \end{aligned}$ | $\begin{gathered} \mathbf{2 / 1 3} \quad \text { Lecture } 21 \\ \text { HW } 5 \text { due } \\ \S 5.3-\text { Applications } \\ \text { of logarithms } \end{gathered}$ | $\begin{array}{cc} \hline \mathbf{2 / 1 4} & \text { Lecture } 22 \\ \S 5.4-\text { Exponential } \\ \text { growth } \end{array}$ | $\begin{array}{lr} \hline 2 / 15 & \text { Lecture } 23 \\ \S 6.1-\text { Defining } e \text { and } \\ \ln \end{array}$ |
| $\begin{aligned} & \hline 2 / 18 \\ & \begin{array}{c} \text { President's Day } \\ \text { (no class) } \end{array} \end{aligned}$ | $\begin{aligned} & \hline 2 / 19 \\ & \begin{array}{c} \text { Discussion } \\ \text { Section } \end{array} \end{aligned}$ | $\begin{gathered} \hline \mathbf{2 / 2 0} \quad \text { Lecture } 24 \\ \text { HW } 6 \text { due } \\ \S 6.3-\text { Exponential } \\ \text { growth revisited } \end{gathered}$ | $\begin{gathered} \hline \text { 2/21 } \quad \text { Lecture } 25 \\ \text { Catch-up } \\ \text { \& Review } \end{gathered}$ | $\begin{gathered} \hline \mathbf{2 / 2 2} \quad \text { Lecture } 26 \\ \hline \text { Midterm 2 } \\ \hline \end{gathered}$ |
| $\begin{array}{cc} \hline \mathbf{2 / 2 5} & \text { Lecture } 27 \\ \S 7.1 \text { - Systems of } \\ \text { equations } \end{array}$ | $\begin{aligned} & \hline 2 / 26 \\ & \begin{array}{c} \text { Discussion } \\ \text { Section } \end{array} \end{aligned}$ | $\begin{gathered} 2 / 27 \quad \text { Lecture } 28 \\ \text { HW } 7 \text { due } \\ \S 7.2-\text { Solving } \\ \text { systems of linear } \\ \text { equations } \end{gathered}$ | 2/28 Lecture 29 <br> $\S 9.1$ - The unit circle  | $\begin{gathered} \hline \mathbf{3 / \mathbf { 1 }} \quad \text { Lecture } 30 \\ \S 9.2 \text { - Radians } \end{gathered}$ |
| $\begin{gathered} \hline 3 / 4 \\ \$ 9.3 \text { Lecture } 31 \\ \begin{array}{c} \text { Cosine and } \\ \text { sine } \end{array} \end{gathered}$ | $\begin{gathered} \\ \begin{array}{c} \text { Discussion } \\ \text { Section } \end{array} \end{gathered}$ | $\mathbf{3 / 6} \quad$ Lecture 32 <br> HW 8 due <br> $\S 9.4$ - More trig <br> functions | $3 / 7$ Lecture 33 <br> $\S 9.5$ - Trigonometry  <br> in right triangles  | $\begin{array}{lr} \hline 3 / 8 & \text { Lecture } 34 \\ \S 9.6 & \text { Trig identities } \end{array}$ |
| $\begin{gathered} \hline \mathbf{3 / 1 1} \quad \text { Lecture } 35 \\ \S 10.1 \text { - Inverse trig } \\ \text { functions } \end{gathered}$ | $\begin{gathered} 3 / 12 \\ \begin{array}{c} \text { Discussion } \\ \text { Section } \end{array} \end{gathered}$ | 3/13 Lecture 36 HW 9 due $\S 10.2$ - Inverse trig identities | $\begin{array}{cc} \hline \mathbf{3 / 1 4} & \text { Lecture } 37 \\ \S 11.2- \\ \text { Transformations of } \\ \text { trig functions } \end{array}$ | $\begin{aligned} & 3 / 15 \quad \text { Lecture } 38 \\ & \text { Catch-up } \\ & \text { \& Review } \end{aligned}$ |
| 3/18 | 3/19 | $\begin{aligned} & \mathbf{3 / 2 0} \\ & \begin{array}{\|c\|} \hline \text { Final Exam } \\ 3-6 \mathrm{pm} \\ \hline \end{array} \end{aligned}$ | 3/21 | 3/22 |

