<table>
<thead>
<tr>
<th>Meeting</th>
<th>Section</th>
<th>Comments</th>
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</table>
| 0       | 1.1     | Review activity - review fundamental concepts  
Group Activity: [Diagnostic Test](#) + Diagnostic Test Solutions |
|         | 1.2     | ABCD Review activity on Domain and functions  
Suggestion: review horizontal, vertical translations and shifts of function graphs during the quarter as needed. |
|         | 1.3     | Composition of functions: assign two videos for students to watch instead of doing a full lecture  
- Intro to function composition  
- Function composition |
| 1       | 1.3     | ABCD Cards on function composition (students have watched videos) |
|         | 1.4     | Mini lecture: exponential functions |
|         | 1.5     | Group Activity: Exponential vs Linear Functions ([CarGas_Sect1.4](#))  
Start mini lecture: inverses |
| 2       | 1.5     | Mini lecture: Logs |
|         | 2.1     | Group Activity: Logarithms ([CoffeeMug_Sect1.5](#)) (2 questions).  
Comment: Tangent line concepts are covered again in Section 2.7. It's Ok to go quickly. Focus should be on conceptual understanding of describing the position of a particle as a function of time. Emphasize average velocity here.  
Definition of a limit  
Reminder: tell students to bring electronic devices to next class |
|         | 2.2     | Lecture; CDF player- [tangent line](#)  
Group Activity - Desmos limits on electronic devices (teacher.desmos.com -- [limit activity](#)) (Winner!)  
Rules of limits.  
Skip (epsilon-delta proofs) we took it out because of the composition of majors in our classes. Cover only if you have time. |
| 3       | 2.2     | Covered Section 2.3  
ABCD Cards on limits (Section 2.3) |
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| 5 | 2.5 | Continuity  
Comment: Part of Sect 2.5 (Interm. Value Theorem) -- Read at home. |
| 6 | 2.6 | Limits at infinity and horizontal asymptotes  
Group Activity - (Zeno’s Paradox Activity - LimitsInfinity_Sect2.6) |
| 7 | 2.7 | Started Section 2.7  
ABCD Exam 1 Review  
Comment: I held an out-of-class exam review session - well attended |
| 8 | Exam 1 | 2-hour Exam on almost all of Chapter 2 and some of Chapter 1 |
| 9 | 2.7 | Derivatives and Rates of Change  
Derivative as a function |
| 10 | 3.1 | Group Activity: Wiki Stix for deriv. Of functions.  
Derivatives of Poly. and exponentials.  
Comment: assign videos to watch for flipped classroom next time  
- Product rule for differentiation (~3 min)  
- Quotient rule for differentiation (~4 min)  
- Easy way to remember quotient rule (~3 min) |
| 11 | 3.2 | Group Activity: Flipped Classroom. Use Problems_DerivativeProductQuotient.pdf and everyone is up at the flip charts and boards. |
| 12 | 3.3 | Derivatives of trig functions  
Chain rule  
(includes derivatives of logs) |
| 13 | 3.4 | (includes 3.6)  
Group Activity: Domino Train-- review of derivatives  
Implicit differentiation |
| 14 | GATEWAY 3.5 | I give Gateway exam in class ONCE. Remaining times are taken outside class;  
Finish 3.5 (Note: skipped 3.10 linear approx. & differentials) |
| 15 | 4.1 | 4.3 | Teach 2nd derivatives  
Max/Min values  
Mean Value Theorem  
Comment: I held an out-of-class exam review session - well attended |
| 16 | Exam 2 | 2-hour exam on Chapter 3 |
| 17 | 4.3 | 4.7 | Finish 4.3  
Optimization; |
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<tbody>
<tr>
<td>18</td>
<td>4.7</td>
<td><strong>Group Activity:</strong> <em>volume of boxes.</em> L'Hôpital's rule and Mean Value Theorem</td>
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<tr>
<td>19</td>
<td>Review</td>
<td><strong>Group Activity (informal):</strong> students work through review problems.</td>
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<td>Final Exam</td>
<td>2-hour cumulative final exam</td>
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