MAC 2311 – Calculus I
Time Line for Monday/Wednesday Course
Fall Term , 2018, Stewart 8th Edition

Dates (M –S)	Topics
8/27 – 9/2	**Section 1.1** Four Ways to Represent a Function * **Section 1.2** A Catalog of Essential Functions * **Section 1.3** New Functions from Old Functions * **Section 1.4** Exponential Functions **Section 1.5** Inverse Functions and Logarithms **Section 1.5** Inverse Functions and Logarithms *Chapter 1 Review Material will be integrated into the course.* **Section 2.1** The Tangent and Velocity Problems **Section 2.2** The Limit of a Function
9/3 – 9/9 **No Class Monday 9/3**	**Section 2.3** Calculating Limits Using Limit Laws **Section 2.4** The Precise Definition of a Limit **
9/10 – 9/16	**Section 2.5** Continuity **Section 2.6** Limits At Infinity; Horizontal Asymptotes **Section 2.7** Derivatives and Rates of Change
9/17 – 9/23	**Section 2.8** The Derivative as a Function *Test I (Chapter 2)* **Section 3.1** Derivatives of Polynomial and Exponential Functions
9/24 – 9/30	**Section 3.2** The Product and Quotient Rules **Section 3.3** Derivatives of Trigonometric Functions
10/1 – 10/7	**Section 3.4** The Chain Rule **Section 3.5** Implicit Differentiation **Section 3.6** Derivatives of Logarithmic Functions *Test II (Chapter 3 – part 1)*
10/8 – 10/14	**Section 3.7** Rates of Change in the Natural and Social Sciences **Section 3.8** Exponential Growth and Decay **Section 3.9** Related Rates

Dates (M –S)	Topics
10/15 – 10/21	**Section 3.9** Related Rates (continued) **Section 3.10** Linear Approximation and Differentials **Section 3.11** Hyperbolic Functions
10/22 – 10/28	**Section 4.1** Maximum and Minimum Values *Test III (Chapter 3)*
10/29 – 11/4	**Section 4.2** The Mean Value Theorem **Section 4.3** How Derivatives Affect the Shape of a Graph **Section 4.4** Indeterminate Forms and L'Hospital's Rule
11/5 – 11/11	**Section 4.5** Summary of Curve Sketching **Section 4.7** Optimization Problems
11/12 – 11/18	**Section 4.8** Newton's Method **(if time permits) **Section 4.9** Antiderivatives **Section 5.1** Areas and Distances
11/19 – 11/25 **No Class Wednesday 11/21**	*Test IV(Chapter 4)*
11/26 – 12/2	**Section 5.2** The Definite Integral **Section 5.3** The Fundamental Theorem of Calculus **Section 5.4** Indefinite Integrals and Net Change
12/3 – 12/9	**Section 5.5** The Substitution Rule *Test V (Chapter 5)* *Review for the Final Exam*
12/10 – 12/16	**Final Exam Week (see final exam schedule at http://valenciacollege.edu/calendar/FinalExam.cfm)**

This schedule is subject to change at any time by your instructor

Withdrawal Deadline Friday, November 9th, 2018
* These sections may be covered in part, in entirety, or exchanged with topics or sections from the Appendix