

Weekly Calendar (Subject to Change)

All quizzes are open book, and they are available on either Monday or Wednesday, as specified in the calendar, only from 10:30 AM to 1:30 PM (MST), for you to open and post either the picture or the pdf file of your solution on Blackboard before 1:30 PM (MST). If not, the corresponding grade will be counted as zero. No exception or excuse to this rule will be accepted. No late work will be accepted.

The following link also contains interesting

videos that may help you in better

understanding of the course material:

<https://ocw.mit.edu/resources/res-18-009-learn-differential-equations-up->

[close-with-gilbert-strang-and-cleve-moler-fall-2015/differential-equations-and-linear-algebra/](https://ocw.mit.edu/resources/res-18-009-learn-differential-equations-up-close-with-gilbert-strang-and-cleve-moler-fall-2015/differential-equations-and-linear-algebra/)

	Topic	Readings Due	Assignments Due	Notes
Week 1 1/19-1/24	Class introduction, syllabus, sections 1.1 and 1.2	Review syllabus, Read sections 1.1 and 1.2	*Syllabus Quiz #0 due Wed. 1/20	Watch the videos on Introduction
Week 2 1/25-1/31	Sections 1.3 and 1.4	Read Sections 1.3 and 1.4	Quiz #1 on section 1.1 due on Monday, 1/25 Quiz #2 On section 1.2 due on Wed. 1/27	Watch the videos on First Order equations for the Logistic equation and for Separable equations
Week 3 2/1-2/7	Sections 1.5 and 1.6	Read Sections 1.5 and 1.6	Quiz #3 on section 1.3 due on Wed. 2/3 No quiz on section 1.4	Wed. 2/3 is the Census day (last day to drop without "W")
Week 4 2/8-2/14	Section 1.7	Read section 1.7	Quiz #4 On section 1.5 Due on Monday, 2/8 Quiz #5 On section 1.6 due On Wed 2/10	Watch the videos on Graphical and Numerical Methods for "Pictures of solutions" and for "Phase Plane Pictures: Source, Sink, Saddle"

Week 5 2/15-2/21	Sections 1.8 And 1.9	Read sections 1.8 and 1.9	Quiz #6 On section 1.7 due on Monday, 2/15	Watch the videos on First Order equations for "Integrating factors for Constant rate and for a varying rate"
Week 6 2/22-2/28	Sections 2.1 and 2.2	Read sections 2.1 and 2.2	Quiz #7 on sections 1.8 and 1.9 (combined) due on Monday, 2/22	Watch the videos on Second Order Equations for "Second Order Equations and for Unforced Damped Motion"
Week 7 3/1-3/7	Section 2.4	Read Section 2.4	Quiz #8 on section 2.1 due on Monday, 3/1. Quiz #9 on section 2.2 due on Wed. 3/3.	
Week 8 3/8-3/14	Sections 2.5 and 2.6	Read sections 2.5 and 2.6	Quiz #10 on section 2.4 due on Monday, 3/8.	
Week 9 3/15-3/21	Spring Break (No Classes)			
Week 10 3/22-3/28	Section 3.1	Read section 3.1	No quiz on section 2.5. Quiz #11 on section 2.6 due on Wed. 3/24.	Watch the first 3 videos in Vector spaces and subspaces. Watch the video on Eigenvalues and Eigenvectors.
Week 11 3/29-4/4	Sections 3.2 and 3.3	Read sections 3.2 and 3.3		Thursday, 4/1 is the last day to drop with an automatic "W".

Week 12 4/5-4/11	Section 3.4	Read section 3.4	Quiz #12 on sections 3.1, 3.2 and 3.3 combined, due on Wed. 4/7.	Watch the videos on Second order equations for " Second Order Equations with Damping and Electrical Networks: Voltages and Currents And Method of Undetermined Coefficients " Watch the video on Graphical and Numerical Methods for " Phase Plane Pictures: Spirals and Centers "
Week 13 4/12-4/18	Sections 3.5 and 3.6	Read sections 3.5 and 3.6	Quiz #13 on section 3.4 due on Monday, 4/12	
Week 14 4/19-4/25	Sections 6.1 and 6.2	Read sections 6.1 and 6.2	Quiz #14 on section 3.5 due on Monday, 4/19.	Watch the video on Second Order Equations for " Laplace Transform: First Order Equation "
Week 15 4/26-5/2	Sections 6.3 and 5.1	Read sections 6.3 and 5.1	Quiz #15 on sections 6.1 and 6.2 combined, due on Wed. 4/28.	For Quiz #15, use the Table of Laplace Transforms. Watch the video on Second Order Equations for " Laplace Transform: Second Order Equation "

Week 16 5/3-5/9	Section 5.2	Read section 5.2	Quiz #16 on sections 3.6 and 6.3 combined, due on Monday, 5/3.	For Quiz #16, use the Table of Laplace Transforms.
5/10-5/16	Final Exam Week	No final exam for this course according to the syllabus.	No final exam for this course according to the syllabus.	