

Tentative: Schedule  
**ME 563: Mechanical Vibrations**

Lecture	Date	Day	Topic	
1	8/19/24	M	Introduction	<b>Equations of Motion</b>
2	8/21/24	W	Newton-Euler	
3	8/23/24	F	Newton-Euler	
4	8/26/24	M	Power Method	
5	8/28/24	W	Generalized Coordinates/Lagrange Method 1	
6	8/30/24	F	Lagrange Method 2	
	9/2/24	M	<b>Labor Day</b>	
7	9/4/24	W	Calculating Generalized Coordinates and Forces	
8	9/6/24	F	Calculating Generalized Coordinates and Forces	
9	9/9/24	M	Linearization 1	
10	9/11/24	W	Linearization 2	
11	9/13/24	F	Continuous Systems 1	
12	9/16/24	M	Continuous Systems 2	<b>Free Response</b>
13	9/18/24	W	Single DOF System Analysis (Undamped)	
14	9/20/24	F	Single DOF System Analysis (Damped)	
15	9/23/24	M	Single DOF System Analysis Numerical Simulation	
16	9/25/24	W	MDOF System Analysis (Undamped)	
17	9/27/24	F	MDOF System Analysis (Damped)	
18	9/30/24	M	<b>MIDTERM EXAM</b>	
19	10/2/24	W	MDOF System Analysis (Undamped) Numerical	
20	10/4/24	F	Modal Analysis 1	
	10/7/24	M	<b>Fall Break</b>	
21	10/9/24	W	Modal Analysis 2	
22	10/11/24	F	MDOF System Analysis (Damped Proportional and Nonproportional)	
23	10/14/24	M	Continuous Systems Separation of Variables 1	
24	10/16/24	W	Continuous Systems Separation of Variables 2	
25	10/18/24	F	Continuous Systems Separation of Variables 3	
26	10/21/24	M	Continuous Systems Separation of Variables 4	
27	10/23/24	W	Eigenvalue Analysis Continuous Systems	<b>Forced Response</b>
28	10/25/24	F	Forced Response Discrete Systems 1	
29	10/28/24	M	Forced Response Discrete Systems 2	
30	10/30/24	W	Forced Response Discrete Systems 3	
31	11/1/24	F	Forced Response Discrete Systems 4	
32	11/4/24	M	Approximate Methods 1	
33	11/6/24	W	Approximate Methods 2	
34	11/8/24	F	Approximate Methods 3	
35	11/11/24	M	Approximate Methods 4	
36	11/13/24	W	Approximate Methods 5	
37	11/15/24	F	Forced Continuous Systems 1	
38	11/18/24	M	<b>MIDTERM EXAM</b>	
39	11/20/24	W	Forced Continuous Systems 2	
40	11/22/24	F	Forced Continuous Systems 3	
41	11/25/24	M	Misc. Topics/ Case Studies	
	11/27/24	W	<b>Thanksgiving Holiday</b>	
	11/29/24	F		