EGR 1010 SCHEDULE - WSU
Fall, 2023

LECTURE:

DATE(S)	SUBJECT
Week 1: 8/28-9/1	Application of Algebra in Engineering - Linear Equations
	Application of Algebra in Engineering - Quadratic Equations
Week 2: 9/4-9/8	Trigonometry - One-Link Planar Robot
MONDAY, 9/4	NO SCHOOL – LABOR DAY
Week 3: 9/11-9/15	2-D Vectors in Engineering
	2-D Vectors - Applications of Statics
Week 4: 9/18-9/22	Complex Numbers in Engineering
FRIDAY, 9/22	*Last Day to Drop without a Grade of "W"*
Week 5: 9/25-9/29	Sinusoids and Harmonic Signals in Engineering
Week 6: 10/2-10/6	Systems of Equations and Matrices in Engineering
FRIDAY, 10/6	**EXAM #1, 10:00 – 1:00 pm (2 hours)**
Week 7: 10/9-10/13	Introduction to Derivatives in Engineering
	Applications of Derivatives in Dynamics
Week 8: 10/16-10/20	Applications of Derivatives in Electric Circuits
Week 9: 10/23-10/27	Applications of Derivatives in Mechanics of Materials
	Further Applications of Derivatives in Engineering
FRIDAY, 10/27	*Last Day to Drop with a Grade "W"*
Week 10: 10/30-11/3	Introduction to Integrals in Engineering
	Applications of Integrals in Statics
Week 11: 11/6-11/10	Applications of Integrals in Dynamics
WEDNESDAY, 11/8	**EXAM #2, 10:00 – 1:00 pm (2 hours)**
FRIDAY, 11/10	NO SCHOOL – VETERAN'S DAY
Week 12: 11/13-11/17	Applications of Integrals in Electric Circuits
	Further Examples of Integrals in Engineering
Week 13: 11/20-11/24	Introduction to Differential Equations – The Leaking Bucket
WED-FRI 11/22-11/24	NO SCHOOL – THANKSGIVING BREAK
Week 14: 11/27-12/1	Applications of Differential Equations - Mechanical Systems
	Applications of Differential Equations – Mechanical Systems Cont.
Week 15: 12/4-12/8	Applications of Differential Equations – Electrical Systems
	Applications of Differential Equations – Electrical Systems Cont.
Finals Week: 12/11-12/15	
FRIDAY, 12/15	**FINAL EXAM, 10:15 – 12:15 pm**

LAB:

DATES	SUBJECT
Week 1	Introduction and Meet the Lab TA's
Week 2	Lab #1: Application of Algebra in Engineering: The One-Loop Circuit
Week 3	Lab #2: Trigonometric Relationships in One and Two-Link Planar Robots
Week 4	Matlab Supplemental Instruction #1
Week 5	MAKE UP LAB WEEK
Week 6 (E1)	Lab #3: Measurement and Analysis of Harmonic Signals
Week 7	Lab #4: Systems of Equations in Engineering: The Two-Loop Circuit
Week 8	Matlab Supplemental Instruction #2
Week 9	Lab #5: Derivatives in Engineering: Velocity and Acceleration in Free-Fall
Week 10	Matlab Supplemental Instruction #3
Week 11 (E2)	Lab #6: Integrals in Engineering: Work and Stored Energy in a Spring
Week 12	Matlab Supplemental Instruction #4
Week 13	NO LAB – THANKSGIVING BREAK (MAKE UP Mon/Tues)
Week 14	Lab #7: Differential Equations in Engineering: The Leaking Bucket
Week 15	Lab #8: Differential Equations in Engineering: Spring-Mass Vibration
Finals Week	MAKE UP LAB WEEK