

EGR 1010 SCHEDULE - WSU
Fall, 2015

LECTURE:

DATE(S)	SUBJECT
Week 1: 8/31-9/4	Application of Algebra in Engineering - Linear Equations
	Application of Algebra in Engineering - Quadratic Equations
Week 2: 9/7-9/11	Trigonometry - One-Link Planar Robot
	Trigonometry - One and Two-Link Planar Robots
MONDAY, 9/7	NO SCHOOL – LABOR DAY
Week 3: 9/14-9/18	2-D Vectors in Engineering
Week 4: 9/21-9/25	Complex Numbers in Engineering
FRIDAY, 9/25	<i>Last Day to Drop without a Grade of “W”</i>
Week 5: 9/28-10/2	Sinusoids and Harmonic Signals in Engineering
Week 6: 10/5-10/9	Systems of Equations and Matrices in Engineering
WEDNESDAY, 10/7	EXAM #1, 8:00-10:00 pm
Week 7: 10/12-10/16	Introduction to Derivatives in Engineering
	Applications of Derivatives in Dynamics
Week 8: 10/19-10/23	Applications of Derivatives in Electric Circuits
Week 9: 10/26-10/30	Applications of Derivatives in Mechanics of Materials
	Further Applications of Derivatives in Engineering
FRIDAY, 10/30	<i>Last Day to Drop with a Grade “W”</i>
Week 10: 11/2-11/6	Introduction to Integrals in Engineering
	Applications of Integrals in Statics
Week 11: 11/9-11/13	Applications of Integrals in Dynamics
WEDNESDAY, 11/11	NO SCHOOL – VETERAN’S DAY
THURSDAY, 11/12	EXAM #2, 8:00-10:00 pm
Week 12: 11/16-11/20	Applications of Integrals in Electric Circuits
	Further Examples of Integrals in Engineering
Week 13: 11/23-11/27	Introduction to Differential Equations – The Leaking Bucket
WED-FRI 11/25-11/27	NO SCHOOL – THANKSGIVING BREAK
Week 14: 11/30-12/4	Differential Equations in Mechanical Systems
	Applications of Differential Equations – Electrical Systems
Week 15: 12/7-12/11	Applications of Differential Equations – Electrical Systems
	Applications of Differential Equations – Electrical Systems Cont.
Finals Week: 12/14-12/18	
THURSDAY, 12/17	FINAL EXAM, 12:30-2:30 pm (unscheduled time block)

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	Lab #3: Measurement and Analysis of Harmonic Signals
Week 6	Lab #4: Systems of Equations in Engineering: The Two-Loop Circuit
Week 7	Matlab Supplemental Instruction #2
Week 8	MAKE UP LAB WEEK
Week 9	Lab #5: Derivatives in Engineering: Velocity and Acceleration in Free-Fall
Week 10	Matlab Supplemental Instruction #3
Week 11	Lab #6: Integrals in Engineering: Work and Stored Energy in a Spring
Week 12	Matlab Supplemental Instruction #4
Week 13	NO LAB – WEEK OF THANKSGIVING BREAK
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