

ECE	600	Doctoral Research & Dissertation	X	X	X	X	X	X	X	X	X
ENGINEERING MANAGEMENT (EM) - additional courses offered through Engineering Outreach											
Subject	Course	Title	Sum 2020	Fall 2020	Spring 2021	Sum 2021	Fall 2021	Spring 2022	Sum 2022	Fall 2022	Spring 2023
EM	510	Engineering & Technology Management			X			X			X
EM	550	Process Improvement Methods		X			X			X	
EM	560	Project Risk Management	X			X			X		
EM	570	Global Product Development			X			X			X
EM	580	Technical Project Management		X			X			X	
EM	582	Adv Topics in Project Management (TM)			X			X			X
EM	596	Capstone Integration	X	X	X	X	X	X	X	X	X
EM	599	Research:Master's Project	X	X	X	X	X	X	X	X	X
ENVIRONMENTAL SCIENCE (ENVS)											
Subject	Course	Title	Sum 2020	Fall 2020	Spring 2021	Sum 2021	Fall 2021	Spring 2022	Sum 2022	Fall 2022	Spring 2023
ENVS	101	Intro to Environmental Science (2 yr rotation, Fall semester)					X				
ENVS	102	Field Activities in Environmental Science (2 yr rotation, Fall semester)					X				
ENVS	415	Life Cycle Assessment (2 yr rotation, Spring semester)			X						X
ENVS	428	Pollution Prevention (Fall semester)		X			X			X	
ENVS	429	Environmental Auditing									
ENVS	479	Intro to Environmental Regs (Fall semester)		X			X			X	
ENVS	482	Natural Resource Policy & Law (2 yr rotation, Spring semester)			X						X
Subject	Course	Title	Sum 2020	Fall 2020	Spring 2021	Sum 2021	Fall 2021	Spring 2022	Sum 2022	Fall 2022	Spring 2023
ENVS	483	Water & Energy Systems									
ENVS	484	History of Energy (Fall semester)		X			X			X	
ENVS	485	Energy Efficiency and Conservation (Spring semester)			X			X			X
ENVS	497	Senior Research & Thesis	X	X	X	X	X	X	X	X	X
ENVS	498	Internship	X	X	X	X	X	X	X	X	X
ENVS	500	Master's Research & Thesis	X	X	X	X	X	X	X	X	X
ENVS	501	Seminar		X	X	X	X	X		X	X
ENVS	504	Hazardous and Radioactive Waste Mgt (2 yr rotation, Fall semester)			X						
ENVS	515	Life Cycle Assessment (2 yr rotation, Spring semester)			X						
ENVS	541	Samp & Analysis of Envir Contaminants (Spring semester)			X			X			X
ENVS	579	Intro to Environmental Regs (Fall semester)		X			X			X	
ENVS	581	Applications of Environmental Regulations									
ENVS	582	Natural Resource Policy & Law (2 yr rotation, Spring semester)			X						X
ENVS	599	Research	X	X	X	X	X	X	X	X	X
ENVS	600	Doctoral Research & Dissertation	X	X	X	X	X	X	X	X	X
INDUSTRIAL TECHNOLOGY (INDT)											
Subject	Course	Title	Sum 2020	Fall 2020	Spring 2021	Sum 2021	Fall 2021	Spring 2022	Sum 2022	Fall 2022	Spring 2023
INDT	310	Introduction to Industrial Technology (Fall semester)		X			X			X	
INDT	311	Problems in Industrial Technology (Spring semester)			X			X			X
INDT	332	Intro to Analog and Digital Electronics (Fall semester)		X			X			X	
INDT	333	Industrial Electronics and Control Systems (Spring semester)			X			X			X
INDT	350	Introduction to Materials Science (Fall semester)		X			X			X	
INDT	353	Manufacturing Systems (Fall semester)		X			X			X	
INDT	362	Behavior Based Safety (Fall semester)		X			X			X	
INDT	364	Hazardous Materials (every 4th semester)				X				X	
INDT	415	Impact of Technology on Society (Spring semester)			X			X			
INDT	434	Power Generation and Distribution (every 4th semester)				X					
INDT	435	Network Administration (every 4th semester)	X				X				X
INDT	442	Systems Integration (Fall semester)		X			X			X	
INDT	443	Government Contract Law (Fall semester)		X			X			X	
INDT	444	Quality Assurance Organization & Management (every 4th semester)				X				X	
INDT	446	Labor Law (Spring semester)			X			X			X
INDT	448	Project and Program Management (every 4th semester)				X				X	
INDT	453	Computer Integrated and Robotics Manufacturing (Spring semester)			X			X			X
INDT	457	Lean to Green Sustainable Technology (every other Fall)					X				
INDT	462	Industrial Safety (Spring semester)			X			X			X
INDT	463	Industrial Transportation Safety									
INDT	464	Human Performance Fundamentals (Fall semester)		X			X			X	
INDT	465	Construction Safety (every 4th semester)	X				X				X

Subject	Course	Title	Sum 2020	Fall 2020	Spring 2021	Sum 2021	Fall 2021	Spring 2022	Sum 2022	Fall 2022	Spring 2023
INDT	466	Human Performance Field Investigation (Spring semester)			X			X			X
INDT	468	Applied Research in Human Performance									
INDT	469	Safety Management through LEAN Engineering Methods)									
INDT	470	Homeland Security (Fall semester)		X			X			X	
INDT	472	National Incident Mgmt Systems (Summer semester)	X			X			X		
INDT	484	Industrial Technology Capstone I (Fall semester)		X			X				
INDT	485	Industrial Technology Capstone II (Spring semester)			X			X			X

MATERIALS SCIENCE & ENGINEERING (MSE)

Subject	Course	Title	Sum 2020	Fall 2020	Spring 2021	Sum 2021	Fall 2021	Spring 2022	Sum 2022	Fall 2022	Spring 2023
MSE	437	Radiation Effects on Materials (NE)		X							
MSE	438	Fundamentals of Nuclear Materials (NE)			X			X			
MSE	500	Master's Research & Thesis	X	X	X	X	X	X	X	X	X
MSE	511	Nuclear Degradation Mechanisms (NE)									
MSE	512	Nuclear Components Inspection (NE)									
MSE	536	Mechanics of Composite Materials (ME)									
MSE	537	Radiation Effects on Materials (NE)		X						X	
MSE	538	Fundamentals of Nuclear Materials (NE)			X			X			X
MSE	550	Nuclear Reactor Fuels (NE)									
MSE	600	Doctoral Research & Dissertation	X	X	X	X	X	X	X	X	X

MECHANICAL ENGINEERING (ME) - additional courses offered through Engineering Outreach

Subject	Course	Title	Sum 2020	Fall 2020	Spring 2021	Sum 2021	Fall 2021	Spring 2022	Sum 2022	Fall 2022	Spring 2023
ME	500	Master's Research & Thesis	X	X	X	X	X	X	X	X	X
ME	525	Advanced heat transfer						X			
ME	527	Thermodynamics		X							
ME	544	Conduction Heat Transfer		X						X	
ME	546	Convective Heat Transfer			X						X
ME	547	Radiative heat transfer					X				
ME	599	Master's Non-thesis Research	X	X	X	X	X	X	X	X	X
ME	600	Doctoral Research & Dissertation	X	X	X	X	X	X	X	X	X

NUCLEAR ENGINEERING (NE)

Subject	Course	Title	Sum 2020	Fall 2020	Spring 2021	Sum 2021	Fall 2021	Spring 2022	Sum 2022	Fall 2022	Spring 2023
NE	437	Radiation Effects on Materials (MSE)		X				X		X	
NE	438	Fundamentals of Nuclear Materials (MSE)			X			X			X
NE	450	Principles of Nuclear Engineering		X			X			X	
NE	500	Master's Research & Thesis	X	X	X	X	X	X	X	X	X
Subject	Course	Title	Sum 2020	Fall 2020	Spring 2021	Sum 2021	Fall 2021	Spring 2022	Sum 2022	Fall 2022	Spring 2023
NE	501	Seminar (CHE/ME)		X			X			X	
NE	511	Nuclear Degradation Mechanisms (MSE)									
NE	512	Nuclear Components Inspection (MSE)									
NE	514	Nuclear Safety (TM)				X					
NE	516	Nuclear Rules and Regulations (TM)	X						X		
NE	520	Thermalhydraulics of Nuclear Power Plants		X			X			X	
NE	524	Heat Exchanger Design						X			
NE	529	Risk Assessment (TM)			X						X
NE	530	Two Phase Flow		X						X	
NE	533	Monte Carlo Methods									
NE	535	Nuclear Criticality Safety I (TM)						X			
NE	537	Radiation Effects on Materials (MSE)						X			
NE	538	Fundamentals of Nuclear Materials (MSE)			X			X			X
NE	544	Reactor Analysis			X			X			X
NE	550	Nuclear Reactor Fuels (MSE)									
NE	554	Radiation Detection & Shielding (TM)		X			X			X	
NE	555	Nuclear Criticality Safety II	X							X	
NE	565	Reactor Engineering									
NE	567	Advanced Nuclear Systems & Modeling									
NE	570	Nuclear Chemical Engineering						X			
NE	575	Advanced Nuclear Power Engineering Capstone			X			X			X
NE	582	Spent Nuclear Fuel Mgmt & Disposition (CHE)		X						X	
NE	585	Nuclear Fuel Cycles					X				

