

2019 SPRING SEMESTER DISTANCE EDUCATION CLASS OFFERINGS

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
Aerospace Engineering									
5234 Stability of Engineering Structures	3.0- 3.0	73508	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Birman,V
			Distance Course Rates Apply						
			Prerequisite						
5236 Fracture Mechanics Prerequisite: Civ Eng 2210. (Co-listed with Mech Eng 5236)	3.0- 3.0	71134	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Dharani,L
			Distance Course Rates Apply						
5282 Introduction to Composite Materials & Structures Prerequisite: Civ Eng 2210. (Co-listed with Mech Eng 5282)	3.0- 3.0	70998	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Chandrashekhara,K
			Distance Course Rates Apply						
5353 Aeroelasticity	3.0- 3.0	72761	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Pitt,D
			Distance Course Rates Apply						
5478 Mechatronics	3.0- 3.0		LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Krishnamurthy,K
			Distance Course Rates Apply						
	3.0- 3.0	73533	LAB	3DIS	ARR	ARR	ARR		Krishnamurthy,K
			Distance Course Rates Apply						
			Prerequisite						
5830 Applied Computational Methods Prerequisite: Comp Sci 1570 or 1970 or 1981; Math 3304. (Co-listed with Mech Eng 5830)	3.0- 3.0	72006	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Hosder,S
			Distance Course Rates Apply						
6001 Special Topics	3.0- 3.0	73506	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Homan,K
			Adv Comp Thermofluid						
			Distance Course Rates Apply						
6099 Research	0.0-15.0	71508	IND	6DIS	ARR	ARR	ARR		Birman,V
			Distance Course Rates Apply						
	0.0-15.0	71728	IND	6DIA	ARR	ARR	ARR		Dharani,L
			Distance Course Rates Apply						
	0.0-15.0	71816	IND	6DIB	ARR	ARR	ARR		Eversman,W
			Distance Course Rates Apply						
	0.0-15.0	71919	IND	6DIC	ARR	ARR	ARR		Hosder,S
			Distance Course Rates Apply						
	0.0-15.0	72218	IND	6DID	ARR	ARR	ARR		Riggins,D
			Distance Course Rates Apply						
6123 Viscous Fluid Flow Prerequisite: Mech Eng 5131 or Aero Eng 5131 or Mech Eng 5139 or Aero Eng 5139 or equivalent. (Co-listed with Mech Eng 6123)	3.0- 3.0	71879	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Isaac,K
			Distance Course Rates Apply						
6212 Advanced Finite Element Analysis Prerequisite: Mech Eng 5212 or Aero Eng 5212. (Co-listed with Mech Eng 6212)	3.0- 3.0	71583	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Chandrashekhara,K
			Distance Course Rates Apply						
6458 Adaptive Dynamic Programming	3.0- 3.0	73277	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Wunsch,D
			Distance Course Rates Apply						
6481 Advanced Topics in Decision and Control	3.0- 3.0	72926	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Balakrishnan,S
			Distance Course Rates Apply						
6527 Heat Transfer by Convection Prerequisite: Mech Eng 5525 or Aero Eng 5525. (Co-listed with Mech Eng 6527)	3.0- 3.0	71897	LEC	1DIS	CANCELLED				
			Distance Course Rates Apply						
			Prerequisite						
Architectural Engineering									
4820 Building Lighting Systems	3.0- 3.0	73240	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Baur,S
			Distance Course Rates Apply						
			Prerequisite						
5442 Construction Planning and Scheduling Strategies	3.0- 3.0	73462	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Bodapati,S
			Distance Course Rates Apply						
			Prerequisite						

Biological Sciences

1219	General Biology Lab	2.0- 2.0	73541	LAB	3C	F	03:00 - 04:50 pm	SHNK	00111	
										MOTR BIOL 100L: Essentials in Biology with Lab MOTR BIOL 150L: Biology with Lab Prerequisite

Business

5580	Strategic Management Prerequisites: MKT 3110 or Eng Mgt 3510; Finance 2150 or Eng Mgt 3200; Senior standing.	3.0- 3.0	72547	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Fang,H
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Business

5730	Machine Learning and Artificial Intelligence for Business	3.0- 3.0	73154	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Flachsbart,B
										Distance Course Rates Apply

Business

5980	Business Models for Entrepreneurship and Innovation Prerequisite: Senior or graduate standing.	3.0- 3.0	72548	LEC	1DIS	MWF	03:00 - 03:50 pm	ARR		Fang,H
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6224	Managerial Accounting and Control Prerequisite: Graduate standing.	3.0- 3.0	71418	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Eng,L
										See 'Notes' for Class Schedule Distance Course Rates Apply

6425	Supply Chain and Project Management Prerequisite: Graduate standing.	3.0- 3.0	71419	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Elrod,C
										Distance Course Rates Apply

6675	Advanced International Business Prerequisites: MKT 3110 or MKT 5105 or Eng Mgt 3510.	3.0- 3.0	72130	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Stanley,S
										Distance Course Rates Apply

6723	Artificial Intelligence, Robotics, and Information Systems Management Prerequisite: Graduate standing.	3.0- 3.0	71536	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Siau,K
										Distance Course Rates Apply

Chemical Engineering

5130	Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing. (Co-listed with Eng Mgt 4312)	3.0- 3.0	71579	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Schmidt,M
										Distance Course Rates Apply

5190	Plantwide Process Control Prerequisites: Chem Eng 4110 or Elec Eng 3320 or Elec Eng 3340 or graduate standing. (Co-listed with Elec Eng 5350)	3.0- 3.0	71848	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Erickson,K
										Distance Course Rates Apply

Civil Engineering

3842	Fundamentals of Building Systems	3.0- 3.0	72522	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		Gillis,W
										Distance Course Rates Apply

5001	Special Topics	3.0- 3.0		LEC	1DIS	T	07:00 - 08:00 pm	ARR		Holmes,R
										Environ Field Methods Distance Course Rates Apply

		3.0- 3.0	73445	LEC	1DIA	TTh	12:30 - 01:45 pm	ARR		Yan,G
										Wind Engineering Distance Course Rates Apply

		3.0- 3.0	73364	LAB	3DIS	ARR	ARR	ARR		Holmes,R
										Environ Field Methods Distance Course Rates Apply

5156	Concrete Pavement Design	3.0- 3.0	73458	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Liu,J
										Distance Course Rates Apply Prerequisite

5330	Unsteady Flow Hydraulics	3.0- 3.0	73395	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		
										Distance Course Rates Apply

5442	Construction Planning and Scheduling Strategies Prerequisite: Civ Eng or Arch Eng 4448. (Co-listed with Arch Eng 5442)	3.0- 3.0	71412	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Bodapati,S
										Distance Course Rates Apply

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5448 Green Engineering: Analysis of Constructed Facilities Prerequisites: Civ Eng 4448 or Arch Eng 4448; and Junior Standing. (Co-listed with Arch Eng 5448)	3.0- 3.0	71573	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Scott-Showalter,P
									Distance Course Rates Apply
5449 Engineering and Construction Contract Specifications Prerequisite: Civ Eng 4448 with a grade of "C" or better. (Co-listed with Arch Eng 5449)	3.0- 3.0	71877	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		El-adaway,I
									Distance Course Rates Apply
5515 Advanced Traffic Operations and Capacity Analysis	3.0- 3.0	73255	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Hu,X
									Distance Course Rates Apply
									Prerequisite
5640 Environmental Law And Regulations (Co-listed with Env Eng 5640)	3.0- 3.0	71329	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Flechas,F
									Distance Course Rates Apply
5650 Public Health Engineering Prerequisite: Civ Eng 2601 with a grade of "C" or better. (Co-listed with Env Eng 5650)	3.0- 3.0	72328	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Oerther,D
									Distance Course Rates Apply
5744 Geosynthetics in Engineering	3.0- 3.0	72608	LEC	1DIS	W	04:00 - 06:30 pm	ARR		McLain,K
6001 Special Topics	3.0- 3.0	73253	LEC	1DIS	TTh	04:00 - 06:30 pm	ARR		Khayat,K
									Concrete Rheology & SCC
									Distance Course Rates Apply
6099 Research	0.0-15.0	71823	IND	6DIS	ARR	ARR	ARR		Chen,G
									Distance Course Rates Apply
6213 Advanced Design in Steel and Lightweight Structures	3.0- 3.0	73452	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		ElGawady,M
									Distance Course Rates Apply
6338 Advanced Hydrology Prerequisite: Civ Eng 3333.	3.0- 3.0	71546	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Wilson,L
									Distance Course Rates Apply
6612 Biological Operations In Environmental Engineering Systems	3.0- 3.0	73459	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Fitch,M
									Distance Course Rates Apply
									Prerequisite
6713 Dynamics of Earth Materials	3.0- 3.0	73455	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Olgun,C
									Distance Course Rates Apply
6715 Advanced Soil Mechanics Prerequisite: Civ Eng 5715.	3.0- 3.0	72128	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Deng,W
									Distance Course Rates Apply
6716 Soil Stabilization Prerequisite: Civ Eng 5715.	3.0- 3.0	72407	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Zhang,X
									Distance Course Rates Apply

Computer Engineering

5099 Special Research And Thesis	1.0-15.0	70944	IND	6DIS	ARR	ARR	ARR		
									Distance Course Rates Apply
5110 Principles of Computer Architecture	3.0- 3.0	73267	LEC	1DIS	TTh	05:30 - 06:45 pm	ARR		Hurson,A
									Distance Course Rates Apply
									Prerequisite
5130 Advanced Microcomputer System Design	3.0- 3.0	73269	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Hanna,W
									Distance Course Rates Apply
									Prerequisite
5170 Real-Time Systems Prerequisites: COMP ENG 3150 or COMP SCI 3800.	3.0- 3.0	72257	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Zawodniok,M
									Distance Course Rates Apply
5220 Digital System Modeling Prerequisite: Comp Eng 2210 with a grade of "C" or better.	3.0- 3.0	72493	LEC	1DIS	MWF	12:00 - 12:50 pm	ARR		Dua,R
									Distance Course Rates Apply
5410 Introduction to Computer Communication Networks Prerequisites: Comp Eng 3150 or computer hardware competency and Stat 3117 or Stat 3115 or Stat 5643 or equivalent.	3.0- 3.0	72346	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Sedighsarvestani,S
									Distance Course Rates Apply
5450 Digital Image Processing Prerequisites: Elec Eng 3430. (Co-listed with Elec Eng 5450)	3.0- 3.0	73509	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		Dua,R
									Distance Course Rates Apply
									Prerequisite

CATALOG #	AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5620	Signal Integrity in High-Speed Digital & Mixed Signal Design Prerequisites: Elec Eng 3600 or Comp Eng 3150, and Senior standing. (Co-listed with Elec Eng 5620)	3.0- 3.0	70995	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Drewniak,J
										Distance Course Rates Apply
5803	Mathematical Logic I Prerequisite: Philos 3254 or Math 5105 or Comp Sci 2500 or Comp Eng 2210. (Co-listed with Comp Sci 5203, Philos 4354 and Math 5154)	3.0- 3.0	72386	LEC	1DIS	ARR	ARR	ARR		Insall,E
										Class meets February 1st through March 1st, 2017. See 'Notes' for Class Schedule Distance Course Rates Apply
5820	Mechatronics	3.0- 3.0		LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Krishnamurthy,K
										Distance Course Rates Apply Prerequisite
		3.0- 3.0	73535	LAB	3DIS	ARR	ARR	ARR		Krishnamurthy,K
										Distance Course Rates Apply Prerequisite
6099	Special Research and Thesis	1.0-15.0	72447	IND	6DIS	ARR	ARR	ARR		Wunsch,D
										Distance Course Rates Apply
6110	Advanced Computer Architecture I	3.0- 3.0	73279	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Hurson,A
										Distance Course Rates Apply
6120	Advanced Computer Architecture II	3.0- 3.0	73281	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Hanna,W
										Distance Course Rates Apply
6302	Advanced Topics in Data Mining Prerequisite: A "C" or better grade in Comp Sci 5001 Introduction to Data Mining. (Co-listed with Comp Eng 6302 and Sys Eng 6216)	3.0- 3.0	72510	LEC	1DIS	MWF	03:00 - 03:50 pm	ARR		Leopold,J
										Distance Course Rates Apply
6320	Adaptive Dynamic Programming	3.0- 3.0	73271	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Wunsch,D
										Distance Course Rates Apply
6410	Modeling Complex Systems Prerequisites: Graduate Standing. (Co-listed with SYS ENG 6321)	3.0- 3.0	72463	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Dagli,C
										Distance Course Rates Apply
6420	Wireless Ad hoc and Sensor Networks Prerequisite: Comp Eng 5430 or Comp Eng 5420 or equivalent. (Co-listed with Elec Eng 6430 and Sys Eng 6324)	3.0- 3.0	72724	LEC	1DIS	MWF	08:00 - 08:50 am	ARR		Zawodniok,M
										Distance Course Rates Apply
6510	Resilient Networks	3.0- 3.0	73283	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Cetinkaya,E
										Distance Course Rates Apply

Computer Science

4001	Special Topics	3.0- 3.0	73520	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		
										Intro to Cyber Security Offens Distance Course Rates Apply
4700	Intellectual Property For Computer Scientists Prerequisite: Senior or graduate standing.	3.0- 3.0	71354	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Canis,R
										Distance Course Rates Apply
5099	Research	0.0-16.0	71524	IND	6DIS	ARR	ARR	ARR		Das,S
										Distance Course Rates Apply
		0.0-16.0	71921	IND	6DIA	ARR	ARR	ARR		Hurson,A
										Distance Course Rates Apply
		0.0-16.0	71922	IND	6DIB	ARR	ARR	ARR		Jiang,W
										Distance Course Rates Apply
		0.0-16.0	71923	IND	6DIC	ARR	ARR	ARR		Leopold,J
										Distance Course Rates Apply
		0.0-16.0	71924	IND	6DID	ARR	ARR	ARR		Lin,D
										Distance Course Rates Apply
		0.0-16.0	71925	IND	6DIE	ARR	ARR	ARR		Madria,S
										Distance Course Rates Apply
		0.0-16.0	71926	IND	6DIF	ARR	ARR	ARR		McMillin,B
										Distance Course Rates Apply
		0.0-16.0	71927	IND	6DIG	ARR	ARR	ARR		Sabharwal,C
										Distance Course Rates Apply
		0.0-16.0	71928	IND	6DIH	ARR	ARR	ARR		Sedighsarvestani,S
										Distance Course Rates Apply

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	0.0-16.0	71929	IND	6DIJ	ARR	ARR	ARR		Tauritz,D
			Distance Course Rates Apply						
	0.0-16.0	71930	IND	6DIK	ARR	ARR	ARR		Wunsch,D
			Distance Course Rates Apply						
	0.0-16.0	71931	IND	6DIL	ARR	ARR	ARR		Yin,Z
			Distance Course Rates Apply						
5203	Mathematical Logic I	3.0- 3.0	72387	LEC	1DIS	ARR	ARR	ARR	Insall,E
	Prerequisite: Philos 3254 or Math 5105 or Comp Sci 2500 or Comp Eng 2210. (Co-listed with Math 5154, Philos 4354 and Comp Eng 5803.)								
	Class meets February 1st through March 1st, 2017.								
	See 'Notes' for Class Schedule								
	Distance Course Rates Apply								
5204	Regression Analysis	3.0- 3.0	71935	LEC	1DIS	CANCELLED			
	Prerequisites: Math 2222 and one of Stat 3111, 3113, 3115, 3117, or 5643. (Co-listed with Stat 5346)								

Computer Science

5205	Real-Time Systems	3.0- 3.0	73152	LEC	1DIS	MWF	11:00 - 11:50 am	ARR	Zawodniok,M
	Distance Course Rates Apply								

Computer Science

5400	Introduction To Artificial Intelligence	3.0- 3.0	72264	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR	Tauritz,D
	Prerequisite: A "C" or better grade in Comp Sci 2500.								
5406	Interactive Computer Graphics	3.0- 3.0	72512	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR	Sabharwal,C
	Prerequisite: A "C" or better grade in both Comp Sci 3200 and Comp Sci 2500.								
5601	Security Operations & Program Management	3.0- 3.0	71319	LEC	1DIS	MWF	02:00 - 02:50 pm	ARR	Lutzen,K
	Prerequisite: A "C" or better grade in all of: operating systems, computer networking, and a writing emphasized course.								

Computer Science

5602	Introduction to Cryptography	3.0- 3.0	73324	LEC	1DIS	TTh	09:30 - 10:45 am	ARR	Markowsky,G
	Distance Course Rates Apply								
	Prerequisite								

Computer Science

6010	Seminar	1.0- 1.0	71774	RSD	2DIS	M	10:00 - 10:50 am	ARR	McMillin,B
	Distance Course Rates Apply								
6102	Model Based Systems Engineering	3.0- 3.0	72570	LEC	1DIS	F	04:00 - 06:30 pm	ARR	Do,Q
	Prerequisites: Graduate Standing. (Co-listed with SYS ENG 6542)								
6204	Applied Graph Theory for Computer Science	3.0- 3.0	73461	LEC	1DIS	T	04:00 - 06:30 pm	ARR	Das,S
	Distance Course Rates Apply								
	Prerequisite								
6402	Advanced Topics in Data Mining	3.0- 3.0	72509	LEC	1DIS	MWF	03:00 - 03:50 pm	ARR	Leopold,J
	Prerequisite: A "C" or better grade in Comp Sci 5001 Introduction to Data Mining. (Co-listed with Comp Eng 6302 and Sys Eng 6216)								

Economics

4512	Mine Management	3.0- 3.0	73179	LEC	1DIS	MWF	09:00 - 09:50 am	ARR	Weiss,D
	Distance Course Rates Apply								
	Prerequisite								

Electrical Engineering

2200	Introduction to Electronic Devices	3.0- 3.0	72624	LEC	1DIS	MWF	09:00 - 09:50 am	ARR	Dua,R
	Prerequisites: Elec Eng 2100, Elec Eng 2101, and Physics 2135 each with grade of "C" or better; passing the Elec Eng Advancement Exam I. Students should enroll in Elec Eng 2200 and Elec Eng 2201 simultaneously.								
	Distance Course Rates Apply								

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3100 Electronics I Prerequisites: Elec Eng 153, Elec Eng 121, Elec Eng 122, and Comp Eng 111 each with a grade of "C" or better. Passing grade on Elec Eng Advancement Exam II and III. Elec Eng 255 is a corequisite.	3.0- 3.0	71846	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Wu,C
			Distance Course Rates Apply						
3340 Basic Programmable Logic Controllers Prerequisite: Preceded or accompanied by either Elec Eng 2120 or Elec Eng 2800.	3.0- 3.0		LEC	1DIS	TTh	08:00 - 09:15 am	ARR		Erickson,K
			Distance Course Rates Apply						
	3.0- 3.0	71763	LAB	3DIS	M	03:00 - 04:50 pm	ARR		Erickson,K
			Distance Course Rates Apply						
3410 Digital Signal Processing	3.0- 3.0	73008	LEC	1DIA	TTh	09:30 - 10:45 am	ARR		Dua,R
			Distance Course Rates Apply						
3540 Power System Design And Analysis	3.0- 3.0	72508	LEC	IDIS	MWF	01:00 - 01:50 pm	ARR		Odun-Ayo,T
5001 Special Topics	3.0- 3.0	73288	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Crow,M
			Microgids Systems and Architec						
			Distance Course Rates Apply						
	3.0- 3.0	73290	LEC	1DIA	T	07:00 - 09:30 pm	ARR		Ferguson,I
			Introduction to Nanotechnology						
			Distance Course Rates Apply						
5300 Digital Control Prerequisite: Elec Eng 3320.	3.0- 3.0	71361	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Acar,L
			Distance Course Rates Apply						
5345 PLC Motion Control	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Erickson,K
			Distance Course Rates Apply						
	3.0- 3.0	73024	LAB	3DIS	W	03:00 - 04:50 pm	ARR		Erickson,K
			Distance Course Rates Apply						
5350 Plantwide Process Control Prerequisites: Chem Eng 4110, Elec Eng 3320, Elec Eng 3340 or graduate standing. (Co-listed with Chem Eng 5190)	3.0- 3.0	71847	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Erickson,K
			Distance Course Rates Apply						
5370 Introduction to Neural Networks and Applications Prerequisites: Graduate Standing. (Co-listed with Sys Eng 5212)	3.0- 3.0	71972	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Dagli,C
			Distance Course Rates Apply						
5420 Communications Systems II Prerequisite: Elec Eng 3420.	3.0- 3.0	72417	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Potter,C
			Distance Course Rates Apply						
5450 Digital Image Processing Prerequisites: Elec Eng 3430. (Co-listed with Comp Eng 5450)	3.0- 3.0	73510	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		Dua,R
			Distance Course Rates Apply						
			Prerequisite						
5500 Electric Drive Systems	3.0- 3.0	72864	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Shamsi,P
			Distance Course Rates Apply						
5620 Signal Integrity in High-Speed Digital & Mixed Signal Design Prerequisites: Elec Eng 3600 or Comp Eng 3150, and Senior standing. (Co-listed with Comp Eng 5620)	3.0- 3.0	70945	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Drewniak,J
			Distance Course Rates Apply						
5870 Mechatronics	3.0- 3.0		LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Krishnamurthy,K
			Distance Course Rates Apply						
			Prerequisite						
	3.0- 3.0	73537	LAB	3DIS	ARR	ARR	ARR		Krishnamurthy,K
			Distance Course Rates Apply						
			Prerequisite						
6001 Special Topics	3.0- 3.0	73292	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Donnell,K
			HiFreq Sensor & Sensing Systms						
			Distance Course Rates Apply						
	3.0- 3.0	73431	LEC	1DIA	TTh	12:30 - 01:45 pm	ARR		Huang,J
			Intro to Nonlinear Optics						
			Distance Course Rates Apply						
6099 Special Research And Thesis	0.0-15.0	72409	IND	6DIS	ARR	ARR	ARR		Kimball,J
			Distance Course Rates Apply						
6310 Optimal Control And Estimation	3.0- 3.0	72735	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Sarangapani,J
6360 Adaptive Dynamic Programming	3.0- 3.0	73273	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Wunsch,D
			Distance Course Rates Apply						
6430 Wireless Ad hoc and Sensor Networks Prerequisite: Comp Eng 5430 or Comp Eng 5420 or equivalent. (Co-listed with Comp Eng 6420 and Sys Eng 6324)	3.0- 3.0	72725	LEC	1DIS	MWF	08:00 - 08:50 am	ARR		Zawodniok,M

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6520 Advanced Power Electronics	3.0- 3.0	73298	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Ferdowski,M
			Distance Course Rates Apply						
6530 Power System Reliability	3.0- 3.0	73300	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		Nauert,P
			Distance Course Rates Apply						
6540 Computer Methods In Power System Analysis	3.0- 3.0	73302	LEC	1DIS	MWF	12:00 - 12:50 pm	ARR		Crow,M
			Distance Course Rates Apply						
6565 Power System Protection II	3.0- 3.0	73195	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		Nauert,P
			Distance Course Rates Apply						
			Prerequisite						
6600 Advanced Electromagnetics I Prerequisite: Elec Eng 3600 or equivalent undergraduate electromagnetics course.	3.0- 3.0	72259	LEC	1DIS	MWF	03:00 - 03:50 pm	ARR		Drewniak,J
			Distance Course Rates Apply						

Engineering Management

4312 Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing. (Co-listed with Chem Eng 5130)	3.0- 3.0	72410	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Schmidt,M
			Distance Course Rates Apply						
5111 Management for Engineers and Scientists Prerequisite: Graduate standing.	3.0- 3.0	71463	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Spurlock,D
			Distance Course Rates Apply						
5212 Intelligent Investing	3.0- 3.0	72928	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Enke,D
			Distance Course Rates Apply						
5312 Advanced Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing.	3.0- 3.0	71973	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Schmidt,M
			Distance Course Rates Apply						
5320 Project Management Prerequisite: Graduate Standing	3.0- 3.0	71003	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Berry,R
			Distance Course Rates Apply						
5412 Operations Management Science Prerequisites: Graduate standing.	3.0- 3.0	71359	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Gosavi,A
			Distance Course Rates Apply						
5512 Legal Environment Prerequisites: Senior or graduate standing.	3.0- 3.0	71487	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Canis,R
			Distance Course Rates Apply						
5515 Integrated Product And Process Design Prerequisites: Junior or above standing. (Co-listed with MECH ENG 5757)	3.0- 3.0	72249	LEC	1DIS	Th	04:00 - 05:15 pm	ARR		Gosavi,A
			Distance Course Rates Apply						
5613 Value Analysis Prerequisite: Senior or graduate standing.	3.0- 3.0	71531	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Lin,H
			Distance Course Rates Apply						
6099 Research	0.0-15.0	72031	IND	6DIS	ARR	ARR	ARR		Corns,S
			Distance Course Rates Apply						
	0.0-15.0	72032	IND	6DIA	ARR	ARR	ARR		Cudney,E
			Distance Course Rates Apply						
	0.0-15.0	72033	IND	6DIB	ARR	ARR	ARR		Dagli,C
			Distance Course Rates Apply						
	0.0-15.0	72034	IND	6DIC	ARR	ARR	ARR		Enke,D
			Distance Course Rates Apply						
	0.0-15.0	72035	IND	6DID	ARR	ARR	ARR		Gosavi,A
			Distance Course Rates Apply						
	0.0-15.0	72036	IND	6DIE	ARR	ARR	ARR		Long,S
			Distance Course Rates Apply						
	0.0-15.0	72037	IND	6DIF	ARR	ARR	ARR		Murray,S
			Distance Course Rates Apply						
	0.0-15.0	72038	IND	6DIG	ARR	ARR	ARR		Qin,R
			Distance Course Rates Apply						
	0.0-15.0	72039	IND	6DIH	ARR	ARR	ARR		Raper,S
			Distance Course Rates Apply						
6110 Case Studies In General Management Prerequisite: Preceded or accompanied by an Eng Mgt 6000 level course.	3.0- 3.0	71120	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Bade,J
			Distance Course Rates Apply						
6211 Advanced Financial Management Prerequisite: Eng Mgt 1210 or 5210.	3.0- 3.0	71532	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Berry,R
			Distance Course Rates Apply						
6215 Financial Risk Management	3.0- 3.0	73351	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Enke,D
			Distance Course Rates Apply						
6323 Global Project Management Prerequisite: Eng Mgt 5320 or equivalent.	3.0- 3.0	71245	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Schuman,J
			Distance Course Rates Apply						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6412 Mathematical Programming	3.0- 3.0	73380	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Kwasa,B
			Distance Course Rates Apply						
6413 Advanced Engineering Management Science	3.0- 3.0	73384	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Canfield,C
			Prerequisite						
6510 Technological Innovation Management Prerequisite: Eng Mgt 5111.	3.0- 3.0	70997	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Bade,J
			Distance Course Rates Apply						
6710 Design for Six Sigma	3.0- 3.0	72780	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Cudney,E
			Distance Course Rates Apply						

Enterprise Resource Planning

2110 Introduction to Enterprise Resource Planning	3.0- 3.0	73412	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Lea,B
			Distance Course Rates Apply						
			Prerequisite						
5110 Enterprise Resource Planning Systems Design and Implementation	3.0- 3.0	73157	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Claybaugh,C
			Distance Course Rates Apply						
5210 Performance Dashboard, Scorecard and Data Visualization Prerequisite: ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	71867	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Lea,B
			Distance Course Rates Apply						
5240 Enterprise Application Development and Software Security	3.0- 3.0	73159	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Claybaugh,C
			Distance Course Rates Apply						
6444 Essentials of Data Warehouses Prerequisite: IS&T 3423 or equivalent relational database experience. (Co-listed with IS&T 6444)	3.0- 3.0	71514	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Yu,W
			Distance Course Rates Apply						

Environmental Engineering

5001 Special Topics	3.0- 3.0		LEC	1DIS	T	07:00 - 08:00 pm	ARR		Holmes,R
			Environ Field Methods						
			Distance Course Rates Apply						
	3.0- 3.0	73360	LAB	3DIS	ARR	ARR	ARR		Holmes,R
			Environ Field Methods						
			Distance Course Rates Apply						
5640 Environmental Law And Regulations (Co-listed with Civ Eng 5640)	3.0- 3.0	71335	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Flechas,F
			Distance Course Rates Apply						
5650 Public Health Engineering Prerequisite: Civ Eng 2601 with grade of "C" or better. (Co-listed with Civ Eng 5650)	3.0- 3.0	72329	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Oerther,D
			Distance Course Rates Apply						
6612 Biological Operations In Environmental Engineering Systems Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Civ Eng 6612)	3.0- 3.0	71977	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Fitch,M
			Distance Course Rates Apply						

Explosives Engineering

5001 Special Topics Prerequisites: Senior standing.	3.0- 3.0	73409	LEC	1DIS	ARR	ARR	ARR		Worsey,P
			Underwater Blasting						
			Distance Course Rates Apply						
5514 Display Fireworks Manufacturing	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Hall,S
			Distance Course Rates Apply						
	3.0- 3.0		LEC	1DIA	ARR	ARR	ARR		Hall,S
			Distance Course Rates Apply						
	3.0- 3.0	72149	LAB	3DIS	ARR	ARR	ARR		Hall,S
			Distance Course Rates Apply						
	3.0- 3.0	72541	LAB	3DIA	ARR	ARR	ARR		Hall,S
			Distance Course Rates Apply						
5612 Principles of Explosives Engineering Prerequisites: Min Eng 2126; successful background check. (Co-listed with Min Eng 5612)	3.0- 3.0		LEC	1DIA	ARR	ARR	ARR		Perry,K
			Distance Course Rates Apply						
	3.0- 3.0	72400	LAB	3DIA	ARR	ARR	ARR		Perry,K
			Distance Course Rates Apply						
5622 Blasting Design And Technology Prerequisites: Min Eng 5612. Student must be at least 21 years of age. Successful background check. (Co-listed with Min Eng 5622)	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Worsey,P
			"BACKGROUND CHECK REQUIRED IN ADVANCE. SEE SECRETARY IN MCNUTT 227."						
			Distance Course Rates Apply						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	3.0- 3.0	71557	LAB	3DIS	ARR	ARR	ARR		Worsey,P
			Distance Course Rates Apply						
5713 Demolition of Buildings and Structures	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		
Prerequisites: Preceded or accompanied by Civ Eng 2200 or Mech Eng 2340; US citizen or permanent resident; Successful background check.			Distance Course Rates Apply						
	3.0- 3.0		LEC	1DIA	ARR	ARR	ARR		
			Distance Course Rates Apply						
	3.0- 3.0	71695	LAB	3DIS	ARR	ARR	ARR		Vaill,J
			Distance Course Rates Apply						
	3.0- 3.0	72398	LAB	3DIA	ARR	ARR	ARR		Vaill,J
			Distance Course Rates Apply						
5721 Specialty Uses of Energetic Materials	3.0- 3.0	72740	LEC	1DIS	ARR	ARR	ARR		Worsey,P
			Distance Course Rates Apply						
5922 Tunneling & Underground Construction Techniques	3.0- 3.0	72741	LEC	1DIS	ARR	00:00 - 00:00 am			Perry,K
Prerequisite: Consent of instructor. (Co-listed with Min Eng 5922)			Distance Course Rates Apply						
	3.0- 3.0		LAB	3DIS	ARR	00:00 - 00:00 am			Perry,K
			Distance Course Rates Apply						
6001 Special Topics	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Petr,V
			High Speed Imaging						
			Distance Course Rates Apply						
	3.0- 3.0	73187	LAB	3DIS	ARR	ARR	ARR		Petr,V
			High Speed Imaging						
			Distance Course Rates Apply						
6080 Industry Project	3.0- 3.0	71698	LAB	3DIS	ARR	ARR	ARR		Worsey,P
Prerequisite: 12 hours Exp Eng coursework.			Distance Course Rates Apply						
	3.0- 3.0	72393	LAB	3DIA	ARR	ARR	ARR		Johnson,C
			Distance Course Rates Apply						
	3.0- 3.0	73189	LAB	3DIB	ARR	ARR	ARR		Perry,K
			Distance Course Rates Apply						
6099 Research	0.0-15.0	72542	IND	6DIS	ARR	ARR	ARR		Worsey,P
Prerequisites: Consent of instructor required.			Distance Course Rates Apply						
	0.0-15.0	73190	IND	6DIA	ARR	ARR	ARR		Perry,K
			Distance Course Rates Apply						
	0.0-15.0	73191	IND	6DIB	ARR	ARR	ARR		Johnson,C
			Distance Course Rates Apply						
6112 Explosives Regulations	3.0- 3.0	72126	LEC	1DIS	ARR	ARR	ARR		Worsey,G
Prerequisite: Graduate standing.			Distance Course Rates Apply						
	3.0- 3.0	72150	LEC	1DIA	ARR	ARR	ARR		Worsey,G
			Distance Course Rates Apply						
6312 Scientific Instrumentation For Explosives Testing & Blasting	3.0- 3.0		LEC	1DIS	Th	10:00 - 12:00 pm	ARR		Johnson,C
			Distance Course Rates Apply						
	3.0- 3.0	73192	LAB	3DIS	Th	01:00 - 03:15 pm	ARR		Johnson,C
			Distance Course Rates Apply						

Finance

5260 Investments I	3.0- 3.0	73160	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Zhang,H
			Distance Course Rates Apply						

Finance

5310 Financial Modeling	3.0- 3.0	73162	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Liu,Y
			Distance Course Rates Apply						

Geological Engineering

2605 Statics and Mechanics of Geologic Materials	3.0- 3.0	72424	LEC	1DIS	ARR	ARR	ARR		Gertsch,L
Prerequisite: Permission of instructor.			Distance Course Rates Apply						
4115 Statistical Methods in Geology and Engineering	3.0- 3.0	71576	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		
			Distance Course Rates Apply						
5001 Special Topics	3.0- 3.0		LEC	1DIS	T	07:00 - 08:00 pm	ARR		Holmes,R
			Environ Field Methods						
			Distance Course Rates Apply						
	3.0- 3.0	73368	LAB	3DIS	ARR	ARR	ARR		Holmes,R
			Environ Field Methods						
			Distance Course Rates Apply						
5099 Research	0.0-15.0	71144	IND	6DIS	ARR	ARR	ARR		Grote,K
			Distance Course Rates Apply						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	0.0-15.0	71825	IND	6DIA	ARR	ARR	ARR		Maerz,N	
			Distance Course Rates Apply							
	0.0-15.0	72972	IND	6DIB	ARR	ARR	ARR		Rogers,J	
			Distance Course Rates Apply							
5276 Advanced Environmental Aspects Of Mining	3.0- 3.0	73184	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Awuah-Offei,K	
			Distance Course Rates Apply							
5381 Intermediate Subsurface Hydrology And Contaminant Transport Mechs Prerequisites: Civ Eng 3330 & Geo Eng 5331.	3.0- 3.0	71198	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Grote,K	
			Distance Course Rates Apply							
5443 Subsurface Exploration Prerequisite: Geo Eng 1150.	3.0- 3.0		LEC	1DIS	M	04:00 - 06:30 pm	ARR		Maerz,N	
			Distance Course Rates Apply							
	3.0- 3.0	71197	LAB	3DIS	T	12:30 - 03:15 pm	ARR		Maerz,N	
			Distance Course Rates Apply							
5782 Environmental and Engineering Geophysics Prerequisite: Math 2222. (Co-listed with Geophys 5782)	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR			
			Distance Course Rates Apply							
	3.0- 3.0	71779	LAB	3DIS	ARR	ARR	ARR			
			Distance Course Rates Apply							
6000 Special Problems	0.0- 6.0	71317	IND	6DIS	ARR	ARR	ARR		Maerz,N	
			Distance Course Rates Apply							
6099 Research	0.0-15.0	72963	IND	1DIS	ARR	ARR	ARR		Grote,K	
			Distance Course Rates Apply							
	0.0-15.0	72973	IND	1DIA	ARR	ARR	ARR		Maerz,N	
			Distance Course Rates Apply							
6400 Practice Oriented Project Prerequisites: Limited to students enrolled in the Masters of Engineering (M.E.) in Geotechnics Program.	3.0- 3.0	72408	IND	6DIS	ARR	ARR	ARR		Maerz,N	
			Distance Course Rates Apply							
6625 Applications in Geological Engineering	3.0- 3.0	73551	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Rogers,J	
			Distance Course Rates Apply							
6736 Advanced Geophysical Methods	3.0- 3.0	73419	LEC	1DIS	CANCELLED					
	3.0- 3.0	73420	LAB	3DIS	CANCELLED					
6782 Surface Waves (MASW) and Ground Penetrating Radar (GPR) Prerequisites: Geo Eng 1150 or Civ Eng 3715 or equivalent, and graduate standing.	3.0- 3.0		LEC	1DIA	ARR	ARR	ARR		Anderson,N	
			Distance Course Rates Apply							
	3.0- 3.0	71902	LAB	3DIA	ARR	ARR	ARR		Anderson,N	
			Distance Course Rates Apply							
6784 Advanced Engineering And Environmental Geophysics Prerequisite: Admittance into USAES-S&T Co-operative Degree Program. (Co-listed with Geophys 5251)	3.0- 3.0	71820	LEC	1DIS	ARR	ARR	ARR		Anderson,N	
			Distance Course Rates Apply							

Geophysics

5202 Exploration and Development Seismology	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Liu,K
			Distance Course Rates Apply						
	3.0- 3.0	73095	LAB	3DIS	ARR	ARR	ARR		Liu,K
			Distance Course Rates Apply						
5782 Environmental and Engineering Geophysics Prerequisite: Math 2222. (Co-listed with Geo Eng 5782)	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		
			Distance Course Rates Apply						
	3.0- 3.0	71781	LAB	3DIS	ARR	ARR	ARR		
			Distance Course Rates Apply						

Info Science & Technology

4444 Introduction to Data Warehouses	3.0- 3.0	72997	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Yu,W
			Distance Course Rates Apply						
5000 Special Problems	0.0- 6.0	71439	IND	6DIS	ARR	ARR	ARR		Lea,B
			Distance Course Rates Apply						
	0.0- 6.0	71442	IND	6DIA	ARR	ARR	ARR		Yu,W
			Distance Course Rates Apply						
5099 Research	0.0-15.0	71822	IND	6DIS	ARR	ARR	ARR		Lea,B
			Distance Course Rates Apply						
5420 Business Analytics and Data Science Prerequisites: Calculus, Statistics, and Programming knowledge.	3.0- 3.0	72099	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Hilgers,M
			Distance Course Rates Apply						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5520 Data Science and Machine Learning with Python Prerequisites: One of Stat 3111, Stat 3113, Stat 3115, Stat 3117 and either IS&T 1552 or Comp Sci 1510; for Graduate Students: Graduate Standing and Knowledge of Calculus, Statistics, and Programming.	3.0- 3.0	72655	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Chen,L
									Distance Course Rates Apply
5535 Machine Learning Algorithms and Applications	3.0- 3.0	73164	LEC	1DIS	MWF	02:00 - 02:50 pm	ARR		Chen,L
									Distance Course Rates Apply
5885 Human-Computer Interaction Prerequisite: Psych 1101.	3.0- 3.0	71997	LEC	1DIS	MWF	02:00 - 02:50 pm	ARR		Bates,C
									Distance Course Rates Apply
5887 Human-Computer Interaction Evaluation Prerequisite: Preceded or accompanied by IS&T 5885.	3.0- 3.0	72550	LEC	1DIS	ARR	ARR	ARR		Hall,R
	3.0- 3.0	72550	LAB	3DIS	ARR	ARR	ARR		Hall,R
6336 Foundations of Internet Computing Prerequisite: IS&T MS entrance requirements, including solid programming knowledge.	3.0- 3.0	72229	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Twyman,N
									Distance Course Rates Apply
6444 Essentials of Data Warehouses Prerequisite: IS&T 3423 or equivalent relational database experience. (Co-listed with ERP 6444)	3.0- 3.0	71351	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Yu,W
									Distance Course Rates Apply
6445 Database Marketing Prerequisite: Statistics understanding, programming understanding, familiarity with spreadsheets.	3.0- 3.0	71621	LEC	1DIB	W	04:00 - 06:30 pm	ARR		Fletcher,K
									Distance Course Rates Apply
6641 Advanced Digital Commerce and the Internet of Things	3.0- 3.0	73165	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Bates,C
									Distance Course Rates Apply
6654 Advanced Web and Digital Media Development	3.0- 3.0	72101	LEC	1DIS	TTh	03:30 - 04:45 pm	ARR		Hall,R
									Distance Course Rates Apply

Mathematics

5154 Mathematical Logic I Prerequisite: Philos 3254 or Math 5105 or Comp Sci 2500 or Comp Eng 2210. (Co-listed with Comp Eng 5803, Comp Sci 5203 and Philos 4354)	3.0- 3.0	72385	LEC	1DIS	ARR	ARR	ARR		Insall,E
									Class meets January 31 through February 28, 2018. See 'Notes' for Class Schedule Distance Course Rates Apply
6601 Numerical Analysis	3.0- 3.0	73526	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		He,X
6602 Mathematical Foundation of Finite Element Methods	3.0- 3.0	73546	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		He,X
									Distance Course Rates Apply
6665 Mathematical Programming	3.0- 3.0	73382	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Kwasa,B
									Distance Course Rates Apply

Mechanical Engineering

4000 Special Problems Prerequisite: Consent of instructor.	0.0- 6.0	71623	IND	6DIS	ARR	ARR	ARR		Chandrashekhara,K
									Distance Course Rates Apply
5000 Special Problems	0.0- 6.0	71441	IND	6DIS	ARR	ARR	ARR		Appelman,H
									Distance Course Rates Apply
	0.0- 6.0	71703	IND	6DIA	ARR	ARR	ARR		Landers,R
									Distance Course Rates Apply
	0.0- 6.0	71727	IND	6DIB	ARR	ARR	ARR		Liou,F
									Distance Course Rates Apply
5234 Stability of Engineering Structures	3.0- 3.0	73227	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Birman,V
									Distance Course Rates Apply
									Prerequisite
5236 Fracture Mechanics Prerequisite: Civ Eng 2210. (Co-listed with Aero Eng 5236)	3.0- 3.0	71135	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Dharani,L
									Distance Course Rates Apply
5282 Introduction to Composite Materials & Structures Prerequisite: Civ Eng 2210. (Co-listed with Aero Eng 5282)	3.0- 3.0	70999	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Chandrashekhara,K
									Distance Course Rates Apply
5478 Mechatronics	3.0- 3.0		LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Krishnamurthy,K
									Distance Course Rates Apply
									Prerequisite

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	3.0- 3.0	73539	LAB	3DIS	ARR	ARR	ARR		Krishnamurthy,K	
			Distance Course Rates Apply							
			Prerequisite							
5537 Fuel Cell Principles	3.0- 3.0	73477	LEC	1DIS	CANCELLED					
5575 Mechanical Systems For Environmental Control	3.0- 3.0	71884	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Williams JR,G	
			Distance Course Rates Apply							
			Prerequisites: Mech Eng 3521 and 3525; or Mech Eng 2527 and Civ Eng 3330.							
5656 Design For Manufacture	3.0- 3.0	71054	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Appelman,H	
			Distance Course Rates Apply							
			Prerequisites: Mech Eng 3708, Mech Eng 3653.							
5704 Compliant Mechanism Design	3.0- 3.0	71746	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Midha,A	
			Distance Course Rates Apply							
			Prerequisites: Mech Eng 3313, Civ Eng 2210.							
5757 Integrated Product And Process Design	3.0- 3.0	72250	LEC	1DIS	Th	04:00 - 05:15 pm	ARR		Gosavi,A	
			Distance Course Rates Apply							
			Prerequisites: Junior or above standing. (Co-listed with ENG MGT 5515)							
5830 Applied Computational Methods	3.0- 3.0	72007	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Hosder,S	
			Distance Course Rates Apply							
			Prerequisite: Comp Sci 1570 or 1970 or 1981; Math 3304. (Co-listed with Aero Eng 5830)							
6000 Special Problems	0.0- 6.0	72625	IND	6DIS	ARR	ARR	ARR		Dharani,L	
6001 Special Topics	3.0- 3.0	73504	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Homan,K	
			Adv Comp Thermofluid							
			Distance Course Rates Apply							
6099 Research	0.0-15.0	71231	IND	6DIS	ARR	ARR	ARR		Birman,V	
			Distance Course Rates Apply							
			Prerequisite: Consent of instructor.							
	0.0-15.0	71519	IND	6DIB	ARR	ARR	ARR		Dharani,L	
			Distance Course Rates Apply							
	0.0-15.0	71589	IND	6DIA	ARR	ARR	ARR		Landers,R	
			Distance Course Rates Apply							
	0.0-15.0	71937	IND	6DIC	ARR	ARR	ARR		Leu,M	
			Distance Course Rates Apply							
	0.0-15.0	72442	IND	6DID	ARR	ARR	ARR		Okafor,A	
			Distance Course Rates Apply							
6123 Viscous Fluid Flow	3.0- 3.0	71886	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Isaac,K	
			Distance Course Rates Apply							
			Prerequisite: Mech Eng 5131 or Aero Eng 5131 or Mech Eng 5139 or Aero Eng 5139 or equivalent. (Co-listed with Aero Eng 6123)							
6212 Advanced Finite Element Analysis	3.0- 3.0	71582	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Chandrashekhara,K	
			Distance Course Rates Apply							
			Prerequisite: Mech Eng 5212 or Aero Eng 5212. (Co-listed with Aero Eng 6212)							
6236 Advanced Fracture Mechanics	3.0- 3.0	73478	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Dharani,L	
			Distance Course Rates Apply							
6458 Adaptive Dynamic Programming	3.0- 3.0	73275	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Wunsch,D	
			Distance Course Rates Apply							
6481 Advanced Topics in Decision and Control	3.0- 3.0	72924	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Balakrishnan,S	
			Distance Course Rates Apply							
6527 Heat Transfer by Convection	3.0- 3.0	71885	LEC	1DIS	CANCELLED					
			Prerequisite: Mech Eng or Aero Eng 5525. (Co-listed with Aero Eng 6527)							
6653 Advanced Cnc Of Manufacturing Processes & Engineering Metrology	3.0- 3.0		LEC	1DIS	M	03:00 - 04:40 pm	ARR		Okafor,A	
			Distance Course Rates Apply							
			Prerequisite							
	3.0- 3.0	73476	LAB	3DIS	ARR	ARR	ARR		Okafor,A	
			Distance Course Rates Apply							
			Prerequisite							
6659 Advanced Topics in Design and Manufacturing	3.0- 3.0	70993	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Liou,F	
			Distance Course Rates Apply							
			Prerequisites: Mech Eng 5655 or Mech Eng 5708 or equivalent.							

Mining Engineering

4512	Mine Management	3.0- 3.0	73178	LEC 1DIS	MWF	09:00 - 09:50 am	ARR		Weiss,D
				Distance Course Rates Apply					
				Prerequisite					
5412	Aggregates Materials Sizing and Characterization	3.0- 3.0		LEC 1DIS	ARR	ARR	ARR		Galecki,G
	Prerequisite: Mi Eng 4412 or Consent of Instructor.	3.0- 3.0	72143	LAB 3DIS	ARR	ARR	ARR		Galecki,G
				Distance Course Rates Apply					
5423	Flotation and Hydrometallurgy	3.0- 3.0		LEC 1DIS	ARR	ARR	ARR		Alagha,L
	Prerequisites: Mi Eng 4423 or Consent of Instructor.	3.0- 3.0	72427	LAB 3DIS	ARR	ARR	ARR		
				Distance Course Rates Apply					
5424	Mineral Processing II Mechanics And Design	3.0- 3.0	72745	LEC 1DIS	ARR	ARR	ARR		Alagha,L
	Prerequisites: Mi Eng 4424 or Consent of Instructor.	3.0- 3.0		LAB 3DIS	ARR	00:00 - 00:00 am			Alagha,L
				Distance Course Rates Apply					
5522	Ore Reserve Analysis and Geostatistics	3.0- 3.0		LEC 1DIS	MW	10:00 - 10:50 am	ARR		Awuah-Offei,K
	Prerequisites: Math 3304 & Stat 3113 or instructor consent.	3.0- 3.0	72544	LAB 3DIS	ARR	ARR	ARR		Awuah-Offei,K
				Distance Course Rates Apply					
5742	Environmental Aspects of Mining	3.0- 3.0	72144	LEC 1DIS	TTh	09:30 - 10:45 am	ARR		Awuah-Offei,K
	Prerequisites: Preceded or accompanied by Min Eng 5933 or Geo Eng 5441 or Env Eng 5619. (Co-listed with Geo Eng 5276)			Distance Course Rates Apply					
5922	Tunneling & Underground Construction Techniques	3.0- 3.0		LEC 1DIS	ARR	00:00 - 00:00 am			Perry,K
	Prerequisites: Min Eng 4922 or Consent of Instructor.	3.0- 3.0	72147	LAB 3DIS	ARR	00:00 - 00:00 am			Perry,K
				Distance Course Rates Apply					
5933	Surface Mining Methods	3.0- 3.0	72145	LEC 1DIS	MWF	04:00 - 04:50 pm	ARR		Frimpong,S
	Prerequisites: Min Eng 4933 or Consent of Instructor.			Distance Course Rates Apply					
6000	Special Problems	0.0- 6.0	70946	IND 6DIS	ARR	ARR	ARR		Galecki,G
				Distance Course Rates Apply					
		0.0- 6.0	71407	IND 6DIA	ARR	ARR	ARR		Weiss,D
				Distance Course Rates Apply					
6001	Special Topics	3.0- 3.0	73186	LEC 1DIS	TTh	11:00 - 12:15 pm	ARR		Weiss,D
	Intgrate NEPA and Proj Mgmt			Distance Course Rates Apply					
6080	Graduate Project	3.0- 3.0	72401	IND 6DIS	ARR	ARR	ARR		Galecki,G
	Prerequisites: Graduate Standing.	3.0- 3.0	72402	IND 6DIB	ARR	ARR	ARR		Weiss,D
				Distance Course Rates Apply					
6522	Mining Property Feasibility Studies And Evaluation Procedure	3.0- 3.0		LEC 1DIS	TTh	09:30 - 10:45 am	ARR		Weiss,D
		3.0- 3.0	73406	LAB 3DIS	ARR	ARR	ARR		Weiss,D
				Distance Course Rates Apply					

Nuclear Engineering

6099	Research	0.0-15.0	72198	IND 6DIS	ARR	ARR	ARR		Lee,H
				Distance Course Rates Apply					

Petroleum Engineering

4720	Mechanical Earth Modeling	3.0- 3.0	73498	LEC 1DIS	MWF	12:00 - 12:50 pm	ARR		Hilgedick,S
				Distance Course Rates Apply					
				Prerequisite					

Philosophy

4354	Mathematical Logic I	3.0- 3.0	72388	LEC 1DIS	ARR	ARR	ARR		Insal,E
	Prerequisite: Philos 3254 or Math 5105 or Comp Sci 2500 or Comp Eng 2210. (Co-listed with Comp Eng 5803, Comp Sci 5203 and Math 5154)			Class meets February 1st through March 1st, 2017.					
				See 'Notes' for Class Schedule					
				Distance Course Rates Apply					

Psychology

5001	Special Topics	3.0- 3.0	73206	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Murray,S
										Occ Health & Safety
										Distance Course Rates Apply
5012	Ethics and Professional Responsibilities	1.0- 1.0	72836	LEC	1DIS	Th	05:00 - 05:50 pm	ARR		
										Distance Course Rates Apply
5201	Psychometrics Prerequisite: Psych 5202.	3.0- 3.0	71943	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Burns,D
										Distance Course Rates Apply
5601	Small Group Dynamics Prerequisite: Psych 4601 or graduate standing.	3.0- 3.0	72520	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Shank,D
										Distance Course Rates Apply
5700	Job Analysis and Performance Management Prerequisite: Psych 4700 or graduate standing.	3.0- 3.0	72772	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Stone,N
										Distance Course Rates Apply
6610	Leadership, Motivation, and Culture Prerequisite: Psych 4610 or graduate standing.	3.0- 3.0	72613	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Weidner,N
										Distance Course Rates Apply
6700	Training and Development	3.0- 3.0	73204	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Weidner,N
										Distance Course Rates Apply

Statistics

5346	Regression Analysis Prerequisites: Math 2222 and one of Stat 3111, 3113, 3115, 3117, or 5643. (Co-listed with Comp Sci 5204)	3.0- 3.0	71934	LEC	1DIS	CANCELLED				
5643	Probability And Statistics Prerequisite: Math 2222.	3.0- 3.0	72490	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Wen,X
										Distance Course Rates Apply
6344	Design And Analysis Of Experiments	3.0- 3.0	71705	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Samaranayake,V
										Distance Course Rates Apply

Systems Engineering

5000	Special Problems	1.0- 6.0	72216	IND	6DIS	ARR	ARR	ARR		Dagli,C
										Distance Course Rates Apply
5101	System Engineering and Analysis Prerequisite: Graduate Standing.	3.0- 3.0	71327	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Pape II,L
										Distance Course Rates Apply
5212	Introduction to Neural Networks and Applications Prerequisites: Graduate Standing. (Co-listed with Elec Eng 5370)	3.0- 3.0	71851	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Dagli,C
										Distance Course Rates Apply
6050	Continuous Registration	1.0- 1.0	71250	IND	6DIS	ARR	ARR	ARR		Long,S
										Distance Course Rates Apply
6099	Research Prerequisite: Graduate standing.	1.0-15.0	72042	IND	6DIS	ARR	ARR	ARR		Corns,S
										Distance Course Rates Apply
		1.0-15.0	72043	IND	6DIA	ARR	ARR	ARR		Cudney,E
										Distance Course Rates Apply
		1.0-15.0	72044	IND	6DIB	ARR	ARR	ARR		Dagli,C
										Distance Course Rates Apply
		1.0-15.0	72045	IND	6DIC	ARR	ARR	ARR		Enke,D
										Distance Course Rates Apply
		1.0-15.0	72046	IND	6DID	ARR	ARR	ARR		Gosavi,A
										Distance Course Rates Apply
		1.0-15.0	72047	IND	6DIE	ARR	ARR	ARR		Long,S
										Distance Course Rates Apply
		1.0-15.0	72048	IND	6DIF	ARR	ARR	ARR		Qin,R
										Distance Course Rates Apply
		1.0-15.0	72049	IND	6DIG	ARR	ARR	ARR		Raper,S
										Distance Course Rates Apply
6102	Information Based Design Prerequisites: Graduate Standing.	3.0- 3.0	71046	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Qin,R
										Distance Course Rates Apply
6103	Systems Life Cycle Costing Prerequisites: Graduate Standing.	3.0- 3.0	71164	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Yildirim,G
										Distance Course Rates Apply
6104	Systems Architecting Prerequisites: Graduate Standing.	3.0- 3.0	71047	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Dagli,C
										Distance Course Rates Apply
6110	Risk Modeling and Optimization under Uncertainty	3.0- 3.0	72781	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Qin,R
										Distance Course Rates Apply

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6196 Systems Engineering Capstone Prerequisites: Sys Eng 6105.	3.0- 3.0	71270	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Pape II,L
									Distance Course Rates Apply
6216 Advanced Topics in Data Mining Prerequisite: A "C" or better grade in Comp Sci 5001 Introduction to Data Mining . (Co-listed with Comp Sci 6402 and Comp Eng 6302)	3.0- 3.0	72511	LEC	1DIS	MWF	03:00 - 03:50 pm	ARR		Leopold,J
									Distance Course Rates Apply
6321 Modeling Complex Systems Prerequisites: Graduate Standing. (Co-listed with COMP ENG 6410)	3.0- 3.0	72462	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Dagli,C
									Distance Course Rates Apply
6322 Resilient Networks	3.0- 3.0	73285	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Cetinkaya,E
									Distance Course Rates Apply
6324 Wireless Ad hoc and Sensor Networks Prerequisite: Comp Eng 5430 or Comp Eng 5420 or equivalent. (Co-listed with Comp Eng 6420 and Elec Eng 6430)	3.0- 3.0	72726	LEC	1DIS	MWF	08:00 - 08:50 am	ARR		Zawodniok,M
6542 Model Based Systems Engineering Prerequisites: Graduate Standing. (Co-listed with COMP SCI 6102)	3.0- 3.0	72569	LEC	1DIS	F	04:00 - 06:30 pm	ARR		Do,Q
									Distance Course Rates Apply
6615 Financial Risk Management	3.0- 3.0	73350	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Enke,D
									Distance Course Rates Apply

Technical Communication

3550 Writing for Social Media	3.0- 3.0	73318	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Davis,C
									Distance Course Rates Apply
4410 Theory and Practice of Technical Communication	3.0- 3.0	73317	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Northcut,K
									Distance Course Rates Apply
									Prerequisite
4520 Help Authoring	3.0- 3.0	73314	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Wright,M
									Distance Course Rates Apply
5550 Advanced Proposal Writing	3.0- 3.0	73316	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Northcut,K
									Distance Course Rates Apply
									Prerequisite