

2018 FALL SEMESTER DISTANCE EDUCATION CLASS OFFERINGS

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
Aerospace Engineering									
5131 Intermediate Thermofluid Mechanics Prerequisite: Mech Eng 3131 or Aero Eng 3131. (Co-listed with Mech Eng 5131)	3.0- 3.0	76488	LEC	1DIS	MWF	03:00 - 03:50 pm	ARR		Homan,K
									Distance Course Rates Apply
5139 Computational Fluid Dynamics Prerequisites: Comp Sci 1570 or 1970 or 1971; one course in fluid mechanics. (Co-listed with Mech Eng 5139)	3.0- 3.0	76103	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Isaac,K
									Distance Course Rates Apply
5169 Introduction to Hypersonic Flow Prerequisites: Aero Eng 3171.	3.0- 3.0	77391	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Hosder,S
									Distance Course Rates Apply
5171 V/Stol Aerodynamics	3.0- 3.0	78201	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Pitt,D
									Distance Course Rates Apply
5212 Introduction to Finite Element Analysis Prerequisite: Mech Eng 3708 or Aero Eng 4253 or consent of instructor for majors that do not require either of these courses, or graduate standing. (Co-listed with Mech Eng 5212)	3.0- 3.0	76199	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Chandrashekara,K
									Distance Course Rates Apply
5238 Fatigue Analysis	3.0- 3.0	78108	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Dharani,L
									Distance Course Rates Apply
5361 Flight Dynamics-Stability And Control	3.0- 3.0	78325	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		DeMars,K
									Distance Course Rates Apply
5481 Mechanical and Aerospace Control Systems Prerequisite: Mech Eng 4479 or Aero Eng 3361. (Co-listed with Mech Eng 5481)	3.0- 3.0	75759	LEC	1DIS	TTh	03:30 - 04:45 pm	ARR		Balakrishnan,S
									Distance Course Rates Apply
5527 Combustion Processes Prerequisite: Mech Eng 3521. (Co-listed with Mech Eng 5527)	3.0- 3.0	77142	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Koylu,U
									Distance Course Rates Apply
5715 Concurrent Engineering Prerequisites: Mech Eng 3313 or Aero Eng 3131 and Civ Eng 2210 (Co-listed with Mech Eng 5715)	3.0- 3.0	75804	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Appelman,H
									Distance Course Rates Apply
6001 Special Topics	3.0- 3.0	77983	LEC	1DIS	CANCELLED				
6099 Research Prerequisite: Consent of instructor required.	0.0-15.0	76457	IND	6DIS	ARR	ARR	ARR		Birman,V
									Distance Course Rates Apply
	0.0-15.0	77315	IND	6DIA	ARR	ARR	ARR		Dharani,L
									Distance Course Rates Apply
	0.0-15.0	77338	IND	6DIB	ARR	ARR	ARR		Duan,L
									Distance Course Rates Apply
	0.0-15.0	77654	IND	6DID	ARR	ARR	ARR		Hosder,S
									Distance Course Rates Apply
6222 Theory of Elasticity Prerequisites: Civ Eng 2210. (Co-listed with Mech Eng 6222)	3.0- 3.0	77995	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Dharani,L
									Distance Course Rates Apply
6284 Analysis of Laminated Composite Structures Prerequisite: Mech Eng 5282 or Aero Eng 5282. (Co-listed with Mech Eng 6284)	3.0- 3.0	75850	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Birman,V
									Distance Course Rates Apply
6447 Markov Decision Processes Prerequisite: Graduate standing in background of probability or statistics. (Co-listed with Comp Eng 6310, Mech Eng 6447, Eng Mgt 6410 and Comp Sci 6202)	3.0- 3.0	76204	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Wunsch,D
									Distance Course Rates Apply
Architectural Engineering									
5205 Structural Analysis II	3.0- 3.0	78130	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Schonberg,W
									Distance Course Rates Apply

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5206 Low-Rise Building Analysis And Design Prerequisite: Preceded and/or accompanied by Civ -Arch Eng 3210 or Civ-Arch Eng 3220. (Co-listed with Civ Eng 5206)	3.0- 3.0	77231	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Thomas,J
									Distance Course Rates Apply
5270 Structural Masonry Design	3.0- 3.0	77972	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Mcmillian,D
									Distance Course Rates Apply
5442 Construction Planning and Scheduling Strategies	3.0- 3.0	78132	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Bodapati,S
									Distance Course Rates Apply
5448 Green Engineering: Analysis of Constructed Facilities Prerequisites: Civ Eng 4448 or Arch Eng 4448; and Junior Standing. (Co-listed with Civ Eng 5448)	3.0- 3.0	76417	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Scott-Showalter,P
									Distance Course Rates Apply
5449 Engineering and Construction Contract Specifications Prerequisite: Arch Eng 4448 with a grade of "C" or better. (Co-listed with Civ Eng 5449)	3.0- 3.0	77256	LEC	1DIS	CANCELLED				
5642 Sustainability, Population, Energy, Water, and Materials Prerequisite: Senior or graduate standing. (Co-listed with Env Eng 5642 and Civ Eng 5642)	3.0- 3.0	77126	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Fitch,M
									Distance Course Rates Apply
6001 Special Topics	3.0- 3.0	78153	LEC	1DIA	TTh	02:00 - 03:15 pm	ARR		Chen,G
									Structural Health Monitoring
									Distance Course Rates Apply

Business

4111 Business Negotiations Prerequisites: At least Junior status.	3.0- 3.0	76135	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Bates,C
									Distance Course Rates Apply
5230 Financial Statement Analysis Prerequisite: FINANCE 2150 or Graduate Standing.	3.0- 3.0	77623	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Chiu,Y
									Distance Course Rates Apply
5910 Privacy and Information Security Law	3.0- 3.0	77899	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Canis,R
									Distance Course Rates Apply
5980 Business Models for Entrepreneurship and Innovation	3.0- 3.0	78106	LEC	1DIS	MWF	03:00 - 03:50 pm	ARR		Fang,H
									Distance Course Rates Apply
6111 Advanced Business Negotiations Prerequisite: Graduate status.	3.0- 3.0	76936	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Bates,C
									Distance Course Rates Apply
6121 Teambuilding and Leadership Prerequisite: Graduate standing.	3.0- 3.0	76937	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Elrod,C
									Distance Course Rates Apply
6426 Integration of Business Areas Prerequisite: Graduate standing.	3.0- 3.0	76274	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Fang,H
									Distance Course Rates Apply
6622 International Marketing Prerequisite: Graduate standing.	3.0- 3.0	76097	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Stanley,S
									Distance Course Rates Apply
6827 Managerial Finance Prerequisite: Graduate standing.	3.0- 3.0	76123	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Zhang,H
									Distance Course Rates Apply
6887 Research Methods in Business and IS&T (Co-listed with IS&T 6887)	3.0- 3.0	77044	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Nah,F
									Distance Course Rates Apply

Chemical Engineering

4140 Chemical Process Safety Prerequisite: Preceded or accompanied by Chem Eng 3150.	3.0- 3.0	77655	LEC	1DIS	MWF	08:00 - 08:50 am	ARR		Ludlow,D
									Distance Course Rates Apply
5140 Intermediate Chemical Process Safety Prerequisite: Graduate Standing.	3.0- 3.0	77657	LEC	1DIS	MWF	08:00 - 08:50 am	ARR		Ludlow,D
									Distance Course Rates Apply

Civil Engineering

5000 Special Problems	0.0- 6.0	76511	IND	6DIS	ARR	ARR	ARR		Fitch,M
									Distance Course Rates Apply
5205 Structural Analysis II	3.0- 3.0	78131	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Schonberg,W
									Distance Course Rates Apply

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5206 Low-Rise Building Analysis and Design Prerequisite: Preceded and/or accompanied by Civ -Arch Eng 3210 or Civ-Arch Eng 3220. (Co-listed with Arch Eng 5206)	3.0- 3.0	77232	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Thomas,J
									Distance Course Rates Apply
5270 Structural Masonry Design	3.0- 3.0	77973	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		McMillian,D
									Distance Course Rates Apply
5338 Hydrologic Engineering	3.0- 3.0	77866	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Pierson,M
									Distance Course Rates Apply
5442 Construction Planning and Scheduling Strategies	3.0- 3.0	78133	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Bodapati,S
									Distance Course Rates Apply
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	76419	LEC	1DIS	MWF	10:00 - 10:50 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	77255	LEC	1DIS	CANCELLED				
5513 Traffic Engineering Prerequisite: Civ Eng 3500 with a grade of "C" or better.	3.0- 3.0	76499	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Hu,X
									Distance Course Rates Apply
									UM Shared Course-Primary
5605 Environmental Systems Modeling Prerequisites: Env Eng/Civ Eng 2601, Env Eng/Civ Eng 2602 and Env Eng/ Civ Eng 3663; or Graduate standing. (Co-listed with Env Eng 5605)	3.0- 3.0	77683	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Oerther,D
									Distance Course Rates Apply
5642 Sustainability, Population, Energy, Water, and Materials Prerequisite: Senior or graduate standing. (Co-listed with Env Eng 5642 and Arch Eng 5642)	3.0- 3.0	77125	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Fitch,M
									Distance Course Rates Apply
5715 Intermediate Soil Mechanics Prerequisites: Civ Eng 3715 with grade of "C" or better.	3.0- 3.0	76530	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		McLain,K
									Distance Course Rates Apply
5716 Geotechnical Earthquake Engineering Prerequisites: Civ Eng 3715 with a grade of "C" or better.	3.0- 3.0	77257	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Kottke,A
									Distance Course Rates Apply
6000 Special Problems	0.0- 6.0	77108	IND	6DIS	ARR	ARR	ARR		Showalter,W
									Distance Course Rates Apply
6001 Special Topics	3.0- 3.0	78149	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Zhang,X
									Soil Mechanics for Unsat Oils
									Distance Course Rates Apply
	3.0- 3.0	78151	LEC	1DIA	TTh	02:00 - 03:15 pm	ARR		Chen,G
									Structural Health Monitoring
									Distance Course Rates Apply
6099 Research Consent of instructor required.	0.0-15.0	76460	IND	6DIS	ARR	ARR	ARR		Chen,G
									Distance Course Rates Apply
6211 Plastic Analysis And Design Of Metal Structures	3.0- 3.0	78155	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		ElGawady,M
									Distance Course Rates Apply
6340 Urban Hydrology Prerequisite: Civ Eng 3333.	3.0- 3.0	76642	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Wilson,L
									Distance Course Rates Apply
6442 Construction Administration, Planning and Control Prerequisite: Preceded or accompanied by Civ Eng 5445.	3.0- 3.0	76496	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Berry,R
									Distance Course Rates Apply
6601 Biological Principles In Environmental Engineering Systems (Co-listed with Env En 6601)	3.0- 3.0		LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Oerther,D
									Distance Course Rates Apply
			LEC	1DIS	ARR	ARR	ARR		Distance Course Rates Apply
	3.0- 3.0	76896	LAB	3DIS	ARR	ARR	ARR		Oerther,D
									Distance Course Rates Apply

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6712 Computer Modeling in Geotechnical Engineering Prerequisite: Civ Eng 3715 and graduate standing.	3.0- 3.0	77299	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Deng,W
									Distance Course Rates Apply
Computer Engineering									
2210 Introduction to Digital Logic	3.0- 3.0	78293	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Dua,R
									Distance Course Rates Apply
5120 Digital Computer Design Prerequisites: COMP ENG 3150 and COMP ENG 3151.	3.0- 3.0	76476	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Hanna,W
									Distance Course Rates Apply
5310 Computational Intelligence Prerequisite: Graduate Standing. (Co-listed with Elec Eng 5310 and Sys Eng 5211)	3.0- 3.0	76503	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Corns,S
									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	76876	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Sedighsarvestani,S
									Distance Course Rates Apply
5420 Introduction to Network Security Prerequisite: Comp Eng 5410 or Comp Sci 5600.	3.0- 3.0	76599	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Cetinkaya,E
									Distance Course Rates Apply
5430 Wireless Networks Prerequisites: Hardware competency, Elec Eng 3420 or Comp Eng 3150 and graduate standing. (Co-listed with Elec Eng 5430 and Sys Eng 5323.)	3.0- 3.0		LEC	1DIS	MW	08:00 - 08:50 am	ARR		Zawodniok,M
									Distance Course Rates Apply
	3.0- 3.0	77509	LAB	3DIS	F	08:00 - 08:50 am	ARR		Zawodniok,M
									Distance Course Rates Apply
5450 Digital Image Processing	3.0- 3.0	78262	LEC	1DIS	MWF	08:00 - 08:50 am	ARR		Dua,R
									Distance Course Rates Apply
6000 Special Problems Prerequisite: Consent of the instructor.	1.0- 6.0	75903	IND	6DIS	ARR	ARR	ARR		Sedighsarvestani,S
									Distance Course Rates Apply
6099 Special Research and Thesis	1.0-15.0	76834	IND	6DIS	ARR	ARR	ARR		Wunsch,D
									Distance Course Rates Apply
6310 Markov Decision Processes Prerequisite: Graduate standing in background of probability or statistics. (Co-listed with Mech Eng 6447, Aero Eng 6447, Eng Mgt 6410 and Comp Sci 6202)	3.0- 3.0	77613	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Wunsch,D
									Distance Course Rates Apply
6440 Network Performance Analysis	3.0- 3.0	77932	LEC	1DIS	TTh	03:30 - 04:45 pm	ARR		Sedighsarvestani,S
									Distance Course Rates Apply

Computer Science

5099 Research Prerequisite: Consent of instructor.	0.0-16.0	76427	IND	6DIS	ARR	ARR	ARR		Leopold,J
									Distance Course Rates Apply
5200 Analysis Of Algorithms Prerequisite: A "C" or better grade in Comp Sci 2500.	3.0- 3.0	76089	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Markowsky,G
									Distance Course Rates Apply
5203 Mathematical Logic I Prerequisite: Philos 1115 with junior standing or Math 5105 or Comp Sci 2500 or Comp Eng 2210. (Co-listed with Math 5154, Philos 4354 and Comp Eng 5803.)	3.0- 3.0	77332	LEC	1DIS	ARR	ARR	ARR		Insall,E
									Course runs from October 16 through November 10. See 'Notes' for Class Schedule Distance Course Rates Apply
5300 Database Systems Prerequisite: A "C" or better grade in both Comp Sci 1200 and Comp Sci 2300.	3.0- 3.0	77223	LEC	1DIS	MWF	02:00 - 02:50 pm	ARR		Gosnell,M
									Distance Course Rates Apply
5401 Evolutionary Computing Prerequisite: A "C" or better grade in both Comp Sci 2500 and in a Statistics course.	3.0- 3.0	76852	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Tauritz,D
									Distance Course Rates Apply
5500 The Structure of a Compiler	3.0- 3.0	78101	LEC	1DIS	CANCELLED				

Computer Science

5602 Introduction to Cryptography	3.0- 3.0	78102	LEC	1DIS	CANCELLED				
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Computer Science

6001	Special Topics	3.0- 3.0	78103	LEC	1DIS	CANCELLED				
		3.0- 3.0	78104	LEC	1DIA	CANCELLED				
6010	Seminar	1.0- 1.0	76458	RSD	2DIS	M	10:00 - 10:50 am	ARR		Markowsky,G
				Distance Course Rates Apply						
6099	Research Special Topics	0.0-16.0	77868	IND	6DIS	ARR	ARR	ARR		McMillin,B
6102	Model Based Systems Engineering	3.0- 3.0	78011	LEC	1DIS	F	04:00 - 06:30 pm	ARR		Do,Q
				Distance Course Rates Apply						
6202	Markov Decision Processes Prerequisite: Graduate standing in background of probability or statistics. (Co-listed with Comp Eng 6310, Mech Eng 6447, Aero Eng 6447 and Eng Mgt 6410)	3.0- 3.0	76205	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Wunsch,D
				Distance Course Rates Apply						
6204	Applied Graph Theory for Computer Science	3.0- 3.0	78361	LEC	1DIS	CANCELLED				
6304	Cloud Computing and Big Data Management Prerequisites: A grade of 'C' or better in both COMP SCI 5800 and either COMP SCI 5300 or COMP SCI 5402.	3.0- 3.0	76851	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Madria,S
				Distance Course Rates Apply						
6600	Formal Methods in Computer Security	3.0- 3.0	78252	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		McMillin,B
				Distance Course Rates Apply						
6601	Privacy Preserving Data Integration and Analysis Prerequisite: A "C" or better grade in both Comp Sci 5300 and Comp Sci 3600.	3.0- 3.0	77459	LEC	1DIS	CANCELLED				
6602	Network Performance Analysis	3.0- 3.0	77934	LEC	1DIS	TTh	03:30 - 04:45 pm	ARR		Sedighsarvestani,S
				Distance Course Rates Apply						

Economics

4000	Special Problems	0.0- 6.0	76833	IND	6DIS	ARR	ARR	ARR		Gelles,G
				Distance Course Rates Apply						

Electrical Engineering

2200	Introduction to Electronic Devices	3.0- 3.0	78344	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Dua,R
				Distance Course Rates Apply						
3100	Electronics I Prerequisites: Elec Eng 2120, Elec Eng 2200, Elec Eng 2201, and Comp Eng 2210 each with a grade of "C" or better. Passing grade on Elec Eng Advancement Exam II and III. Elec Eng 3101 is a corequisite.	3.0- 3.0	76582	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Odun-Ayo,T
				Distance Course Rates Apply						
3320	Control Systems	3.0- 3.0	77937	LEC	1DIS	CANCELLED				
3340	Basic Programmable Logic Controllers Prerequisites: Elec Eng 2120 and Comp Eng 2210 each with a grade of "C" or better.	3.0- 3.0	76354	LAB	3DIS	ARR	ARR	ARR		Erickson,K
				Distance Course Rates Apply						
3430	Digital Communications I	3.0- 3.0	78118	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Dua,R
				Distance Course Rates Apply						
4000	Special Problems	0.0- 6.0	76570	IND	6DIS	ARR	ARR	ARR		Zheng,Y
				Distance Course Rates Apply						
5001	Special Topics	3.0- 3.0	78251	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Ferguson,I
				LEDs for Illumination						
				Distance Course Rates Apply						
5099	Special Research And Thesis Prerequisite: Consent of instructor.	0.0-15.0	77635	IND	6DIS	ARR	ARR	ARR		Pommerenke,D
				Distance Course Rates Apply						
5140	High-Frequency Amplifiers	3.0- 3.0	78253	LEC	1DIS	MWF	02:00 - 02:50 pm	ARR		Donnell,K
				Distance Course Rates Apply						
5310	Computational Intelligence Prerequisite: Graduate Standing. (Co-listed with Comp Eng 5310 and Sys Eng 5211)	3.0- 3.0	76504	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Corns,S
				Distance Course Rates Apply						
5340	Advanced PLC	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Erickson,K
				Distance Course Rates Apply						
		3.0- 3.0	77879	LAB	3DIS	ARR	ARR	ARR		Andrade,K
				Distance Course Rates Apply						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5380 Autonomous Mobile Robots Prerequisites: Elec Eng 3320 or equivalent and Stat 3117 or equivalent.	3.0- 3.0	76552	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Dierks,T
									Distance Course Rates Apply
5400 Digital Signal Processing II	3.0- 3.0	77948	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Zhang,J
									Distance Course Rates Apply
5430 Wireless Networks Prerequisites: Hardware competency, Elec Eng 3420 or Comp Eng 3150 and graduate standing. (Co-listed with Comp Eng 5430 and Sys Eng 5323)	3.0- 3.0		LEC	1DIS	MW	08:00 - 08:50 am	ARR		Zawodniok,M
									Distance Course Rates Apply
	3.0- 3.0	77512	LAB	3DIS	F	08:00 - 08:50 am	ARR		Zawodniok,M
									Distance Course Rates Apply
5450 Digital Image Processing	3.0- 3.0	78263	LEC	1DIS	MWF	08:00 - 08:50 am	ARR		Dua,R
									Distance Course Rates Apply
5510 Electric-Drive Vehicles	3.0- 3.0	78250	LEC	1DIS		CANCELLED			
5520 Power Electronics Prerequisite: Elec Eng 3100.	3.0- 3.0	76479	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Ferdowski,M
									Distance Course Rates Apply
5540 Power Systems Engineering Prerequisite: Elec Eng 3540.	3.0- 3.0	76880	LEC	1DIS	MWF	02:00 - 02:50 pm	ARR		Crow,M
									Distance Course Rates Apply
5600 Interference Control in Electronic Systems Prerequisites: Elec Eng 3400 and 3600.	3.0- 3.0	77532	LEC	1DIS	MWF	08:00 - 08:50 am	ARR		Beetner,D
									Distance Course Rates Apply
									UM Shared Course-Primary
5660 Microwave Principles For Mixed-Signal Design	3.0- 3.0	77951	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Drewniak,J
									Distance Course Rates Apply
6099 Special Research And Thesis Prerequisite: Consent of instructor.	0.0-15.0	77088	IND	6DIS	ARR	ARR	ARR		Kimball,J
									Distance Course Rates Apply
6300 Linear Control Systems Prerequisite: Elec Eng 3320.	3.0- 3.0	75930	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Acar,L
									Distance Course Rates Apply
6330 Robust Control Systems	3.0- 3.0	77956	LEC	1DIS		CANCELLED			
6500 Advanced Theory Of Electric Machines Prerequisite: Elec Eng 3500.	3.0- 3.0	77639	LEC	1DIS	MWF	12:00 - 12:50 pm	ARR		Shamsi,P
									Distance Course Rates Apply
6560 Power System Protection	3.0- 3.0	77960	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Nauert,P
									Distance Course Rates Apply
6630 Computational Electromagnetics	3.0- 3.0	77965	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Fan,J
									Distance Course Rates Apply

Engineering Management

5110 Managerial Decision Making Prerequisite: Senior or graduate standing.	3.0- 3.0	75985	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Spurlock,D
									Distance Course Rates Apply
5111 Management for Engineers and Scientists Prerequisite: Graduate standing.	3.0- 3.0	75909	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Spurlock,D
									Distance Course Rates Apply
5210 Economic Decision Analysis Prerequisite: Graduate students without previous course in engineering economy because of partial overlap.	3.0- 3.0	75679	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Schuman,J
									Distance Course Rates Apply
5316 Safety Engineering Management Prerequisite: Senior or graduate standing.	3.0- 3.0	75986	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Schmidt,M
									Distance Course Rates Apply
5320 Project Management Prerequisite: Graduate Standing.	3.0- 3.0	75680	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Berry,R
									Distance Course Rates Apply
5330 Advanced Human Factors (Co-listed with PSYCH 5710)	3.0- 3.0	77317	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Baker,D
									Distance Course Rates Apply
5412 Operations Management Science Prerequisites: Graduate standing.	3.0- 3.0	75771	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Gosavi,A
									Distance Course Rates Apply
5511 Technical Entrepreneurship Prerequisite: Senior or graduate standing.	3.0- 3.0	76453	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Bade,J
									Distance Course Rates Apply
5514 Patent Law Prerequisite: Senior or graduate standing. (Co-listed with Chem Eng 4300)	3.0- 3.0	75847	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Canis,R
									Distance Course Rates Apply
5710 Six Sigma Prerequisite: Graduate standing.	3.0- 3.0	75853	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Cudney,E
									Distance Course Rates Apply
5711 Total Quality Management Prerequisite: Senior or graduate standing.	3.0- 3.0	75987	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Bade,J
									Distance Course Rates Apply
5713 Management And Methods In Reliability	3.0- 3.0	78062	LEC	1DIS		CANCELLED			

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6099 Research	0.0-15.0	76824	IND	6DIS	ARR	ARR	ARR		Corns,S
									Distance Course Rates Apply
	0.0-15.0	76825	IND	6DIA	ARR	ARR	ARR		Cudney,E
									Distance Course Rates Apply
	0.0-15.0	76826	IND	6DIB	ARR	ARR	ARR		Dagli,C
									Distance Course Rates Apply
	0.0-15.0	76827	IND	6DIC	ARR	ARR	ARR		Enke,D
									Distance Course Rates Apply
	0.0-15.0	76967	IND	6DID	ARR	ARR	ARR		Gosavi,A
									Distance Course Rates Apply
	0.0-15.0	76968	IND	6DIE	CANCELLED				
	0.0-15.0	76969	IND	6DIF	CANCELLED				
	0.0-15.0	76970	IND	6DIG	ARR	ARR	ARR		Konur,D
									Distance Course Rates Apply
	0.0-15.0	76971	IND	6DIH	ARR	ARR	ARR		Long,S
									Distance Course Rates Apply
	0.0-15.0	76972	IND	6DIJ	ARR	ARR	ARR		Murray,S
									Distance Course Rates Apply
	0.0-15.0	76973	IND	6DIK	ARR	ARR	ARR		Qin,R
									Distance Course Rates Apply
	0.0-15.0	76974	IND	6DIL	ARR	ARR	ARR		Raper,S
									Distance Course Rates Apply
6112 Leadership for Engineers Prerequisite: Eng Mgt 5110 or Psych 4602. (Co-listed with Psych 6611)	3.0- 3.0	76061	LEC	1DIS	ARR	ARR	ARR		Daughton,W
									Distance Course Rates Apply
6211 Advanced Financial Management Prerequisite: Eng Mgt 1210 or 5210.	3.0- 3.0	76294	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Qin,R
									Distance Course Rates Apply
6212 Investment Prerequisite: Eng Mgt 1210 or 308. (Co-listed with Sys Eng 6612)	3.0- 3.0	75682	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Enke,D
									Distance Course Rates Apply
6213 Financial Engineering Prerequisites: Eng Mgt 1210 or 5210. (Co-listed with Sys Eng 6613)	3.0- 3.0	76295	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Enke,D
									Distance Course Rates Apply
6322 Case Studies in Project Management Prerequisite: Eng Mgt 5320 or equivalent.	3.0- 3.0	75954	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Hodges,S
									Distance Course Rates Apply
6410 Markov Decision Processes Prerequisite: Graduate standing in background of probability or statistics. (Co-listed with Comp Eng 6310, Mech Eng 6447, Aero Eng 6447 and Comp Sci 6202)	3.0- 3.0	76161	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Wunsch,D
									Distance Course Rates Apply
6412 Mathematical Programming	3.0- 3.0	77905	LEC	1DIS	CANCELLED				
6611 Lean Systems Prerequisite: Graduate standing.	3.0- 3.0	75681	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Lin,H
									Distance Course Rates Apply

English

5571 Advanced Writing For Science & Engineering	3.0- 3.0	78369	LEC	1DIS	CANCELLED				
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Enterprise Resource Planning

4220 Introduction to Enterprise Decision Dashboard Prototyping Prerequisites: (ERP 2110 or ERP 5110) and one of ERP 5410, ERP 6444, or IS&T 6444.	3.0- 3.0	77304	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Lea,B
									Distance Course Rates Apply

Enterprise Resource Planning

4610 Customer Relationship Management in ERP Environment	3.0- 3.0	77564	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Claybaugh,C
5110 Enterprise Resource Planning Systems Design and Implementation Prerequisites: Preceded or accompanied by ERP 2110; or Graduate Standing and computer programming knowledge.	3.0- 3.0	75739	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Claybaugh,C
									Distance Course Rates Apply

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5310 Supply Chain Management Systems in an ERP Environment Prerequisite: ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	76373	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Lea,B
									Distance Course Rates Apply
5410 Use of Business Intelligence Prerequisites: IS&T 3423 or equivalent; ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	76491	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Yu,W
									Distance Course Rates Apply

Enterprise Resource Planning

6220 Data Modeling & Visualization Prototyping for Enterprise Decision Dashboards Prerequisites: ERP 5110 and one of ERP 5410, ERP 6444 or IS&T 6444.	3.0- 3.0	77158	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Lea,B
									Distance Course Rates Apply

Enterprise Resource Planning

6610 Advanced Customer Relationship Management in ERP Environment	3.0- 3.0	77565	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Claybaugh,C
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Environmental Engineering

5605 Environmental Systems Modeling Prerequisites: Env Eng/Civ Eng 2601, Env Eng/Civ Eng 2602 and Env Eng/ Civ Eng 3603; or Graduate standing. (Co-listed with Civ Eng 5605)	3.0- 3.0	77682	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Oerther,D
									Distance Course Rates Apply
5642 Sustainability, Population, Energy, Water, and Materials Prerequisite: Senior or graduate standing. (Co-listed with Civ Eng 5642 and Arch Eng 5642)	3.0- 3.0	77127	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Fitch,M
									Distance Course Rates Apply
6601 Biological Principles In Environmental Engineering Systems (Co-listed with Civ Eng 6601)	3.0- 3.0		LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Oerther,D
									Distance Course Rates Apply
	3.0- 3.0	76898	LAB	3DIS	ARR	ARR	ARR		Oerther,D
									Distance Course Rates Apply

Explosives Engineering

5001 Special Topics	3.0- 3.0	78254	LEC	1DIS	ARR	ARR	ARR		Perry,K
									Structural Design for Blast
									Distance Course Rates Apply
									UM Shared Course-Secondary
5112 Explosives Handling and Safety	3.0- 3.0	77910	LEC	1DIS	ARR	ARR	ARR		Johnson,C
									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	1DIS	ARR	ARR	ARR		Worsey,P
									Distance Course Rates Apply
	3.0- 3.0	76255	LAB	3DIS	ARR	ARR	ARR		Worsey,P
									Distance Course Rates Apply
5711 Explosives in Industry	3.0- 3.0	77594	LEC	1DIS	ARR	ARR	ARR		Perry,K
									Distance Course Rates Apply
									UM Shared Course-Primary
5914 Explosives Manufacturing	3.0- 3.0	77911	LEC	1DIS	ARR	ARR	ARR		Perry,K
									Distance Course Rates Apply
6080 Industry Project Prerequisite: 12 hours Exp Eng coursework.	3.0- 3.0	76351	LAB	3DIS	ARR	ARR	ARR		Worsey,P
									Distance Course Rates Apply
	3.0- 3.0	77110	LAB	3DIB	ARR	ARR	ARR		Johnson,C
									Distance Course Rates Apply
	3.0- 3.0	77369	LAB	3DIA	ARR	ARR	ARR		Lusk,B
									Distance Course Rates Apply
6099 Research Prerequisites: Consent of instructor required.	0.0-15.0	76472	IND	6DIS	ARR	ARR	ARR		Johnson,C
									Distance Course Rates Apply
	0.0-15.0	76473	IND	6DIA	ARR	ARR	ARR		Worsey,P
									Distance Course Rates Apply
	0.0-15.0	78393	IND	6DIB	ARR	ARR	ARR		Perry,K
									Distance Course Rates Apply

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6112 Explosives Regulations Prerequisite: Graduate standing.	3.0- 3.0	76637	LEC	1DIS	ARR	ARR	ARR		Worsey,G
6212 Theory Of High Explosives	3.0- 3.0	77912	LEC	1DIS	ARR	ARR	ARR		Baird,J

Geological Engineering

5099 Research Prerequisite: Consent of instructor required.	0.0-15.0	76261	IND	6DIS	ARR	ARR	ARR		Maerz,N
	0.0-15.0	76389	IND	6DIA	ARR	ARR	ARR		Rogers,J
5332 Fundamentals of Groundwater Hydrology	3.0- 3.0	77020	LEC	1DIS	ARR	ARR	ARR		Grote,K
5441 Engineering Geology And Geotechnics Prerequisite: Geo Eng 3175.	3.0- 3.0	75952	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Rogers,J
5471 Rock Engineering Prerequisite: Geo Eng 3175.	3.0- 3.0	75689	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Maerz,N
5761 Transportation Applications of Geophysics Prerequisite: Junior level standing or higher. (Co-listed with Geophys 5761 and Civ Eng 5750)	3.0- 3.0	76027	LAB	3DIS	M	02:00 - 02:50 pm	ARR		Anderson,N
6000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	76044	IND	6DIS	ARR	ARR	ARR		Maerz,N
6099 Research	0.0-15.0	77566	IND	6DIS	ARR	ARR	ARR		Maerz,N
	0.0-15.0	77779	IND	6DIA	ARR	ARR	ARR		Rogers,J
	0.0-15.0	78364	IND	6DIB	ARR	ARR	ARR		Grote,K
6331 Advanced Subsurface Hydrology	3.0- 3.0	78086	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Grote,K
6400 Practice Oriented Project Prerequisites: Limited to students enrolled in the Masters of Engineering (M.E.) in Geotechnics Program.	3.0- 3.0	77075	IND	6DIS	ARR	ARR	ARR		Maerz,N
6441 Geotechnical Construction Practice	3.0- 3.0	78087	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Rogers,J
6477 Discontinuous Rock Prerequisite: Min Eng 4823 or Geo Eng 5471.	3.0- 3.0	76303	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Maerz,N
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	77757	LEC	1DIS	ARR	ARR	ARR		Anderson,N

Geology

3631 Systematic Paleontology	3.0- 3.0		LEC	1DIS	MW	10:00 - 10:50 am	ARR		Oboh Ikuenobe,F
	3.0- 3.0	77925	LAB	3DIS	W	01:00 - 03:50 pm	ARR		Oboh Ikuenobe,F
6421 Environmental Geology	3.0- 3.0	77710	LEC	1DIS	TTh	06:00 - 07:15 pm	ARR		Tucker,R

Geophysics

4231 Seismic Interpretation	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Liu,K
	3.0- 3.0	78080	LAB	3DIS	ARR	ARR	ARR		Liu,K
5251 Advanced Engineering And Environmental Geophysics Prerequisite: Admittance into USAES-S&T Co-operative Degree Program. (Co-listed with Geo Eng 6784)	3.0- 3.0	77758	LEC	1DIS	ARR	ARR	ARR		Anderson,N

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6000 Special Problems	0.0- 6.0	78083	IND	6DIS	ARR	ARR	ARR		Gao,S
			Distance Course Rates Apply						
	0.0- 6.0	78084	IND	6DIA	ARR	ARR	ARR		Liu,K
			Distance Course Rates Apply						
6211 Advanced Seismic Interpretation	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Liu,K
			Distance Course Rates Apply						
	3.0- 3.0	78082	LAB	3DIS	ARR	ARR	ARR		Liu,K
			Distance Course Rates Apply						

Info Science & Technology

4261 Information Systems Project Management Prerequisites: IST 1552 or Comp Sci 1510; Senior Standing.	3.0- 3.0	76856	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Flachsbar,B
			Distance Course Rates Apply						
4641 Digital Commerce and the Internet of Things Prerequisites: IS&T 1750 and at least Sophomore standing.	3.0- 3.0	76538	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Bates,C
			Distance Course Rates Apply						
4680 Introduction to Web and New Media Studies Prerequisite: Junior or Senior standing.	3.0- 3.0	76423	LEC	1DIS	ARR	ARR	ARR		Hall,R
			Distance Course Rates Apply						
5251 Technological Innovation Management and Leadership Prerequisite: Senior or Graduate Standing.	3.0- 3.0	76447	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Nah,F
			Distance Course Rates Apply						
5885 Human-Computer Interaction	3.0- 3.0	75997	LEC	1DIS	MWF	02:00 - 02:50 pm	ARR		Bates,C
			Distance Course Rates Apply						
5886 Prototyping Human-Computer Interactions Prerequisite: Preceded or accompanied by IS&T 5885.	3.0- 3.0	76376	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Twyman,N
			Distance Course Rates Apply						
6261 Advanced Information Systems Project Management Prerequisites: IS&T MS Entrance requirements, with strong programming knowledge.	3.0- 3.0	76589	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Flachsbar,B
			Distance Course Rates Apply						
6443 Information Retrieval and Analysis Prerequisite: ERP 5410 or statistics knowledge.	3.0- 3.0	76493	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Yu,W
			Distance Course Rates Apply						
6450 Information Visualization Prerequisites: Statistics, Calculus, and Programming Knowledge.	3.0- 3.0	76998	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Hilgers,M
			Distance Course Rates Apply						
6641 Advanced Digital Commerce and the Internet of Things Prerequisites: Knowledge of management information systems.	3.0- 3.0	76539	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	76801	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Hall,R
			Distance Course Rates Apply						
6680 Advanced Web and New Media Studies	3.0- 3.0	76696	LEC	1DIS	ARR	ARR	ARR		Hall,R
			Distance Course Rates Apply						
6887 Research Methods in Business and IS&T (Co-listed with BUS 6887)	3.0- 3.0	76331	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Nah,F
			Distance Course Rates Apply						

Marketing

5310 Digital Marketing and Promotions Prerequisites: At least Junior standing.	3.0- 3.0	76513	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Stanley,S
			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	77330	LEC	1DIS	ARR	ARR	ARR		Insall,E
			Course runs from October 16 through November 10. See 'Notes' for Class Schedule						
			Distance Course Rates Apply						
	3.0- 3.0	77382	LEC	1DIA	MTWThF	12:40 - 02:50 pm	ARR		Insall,E
			Class meets the first four weeks of the semester, June 6 - July 1, 2016. Distance Course Rates Apply						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6601 Numerical Analysis Prerequisites: Any 4000 or higher level MATH course, or any instructor approved 4000 or higher level course from another discipline with a significant computational component.	3.0- 3.0	77620	LEC	1DIS	CANCELLED				
6602 Mathematical Foundation of Finite Element Methods	3.0- 3.0	78281	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		He,X
6665 Mathematical Programming	3.0- 3.0	77906	LEC	1DIS	CANCELLED				
Mechanical Engineering									
5000 Special Problems	0.0- 6.0	76270	IND	6DIS	ARR	ARR	ARR		Liou,F
5131 Intermediate Thermofluid Mechanics Prerequisite: Mech Eng 3131 or Aero Eng 3131. (Co-listed with Aero Eng 5131)	3.0- 3.0	76485	LEC	1DIS	MWF	03:00 - 03:50 pm	ARR		Homan,K
5139 Computational Fluid Dynamics Prerequisites: Comp Sci 1570 or 1970 or 1971; one course in fluid mechanics. (Co-listed with Aero Eng 5139)	3.0- 3.0	76102	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Isaac,K
5212 Introduction to Finite Element Analysis Prerequisite: Mech Eng 3708 or Aero Eng 4253 or consent of instructor for majors that do not require either of these courses, or graduate standing. (Co-listed with Aero Eng 5212)	3.0- 3.0	76200	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Chandrashekara,K
5238 Fatigue Analysis	3.0- 3.0	78110	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Dharani,L
5420 Signal Processing for Instrumentation and Control	3.0- 3.0	77993	LEC	1DIS	CANCELLED				
5481 Mechanical And Aerospace Control Systems Prerequisite: Mech Eng 4479 or Aero Eng 3361. (Co-listed with Aero Eng 5481)	3.0- 3.0	75685	LEC	1DIS	TTh	03:30 - 04:45 pm	ARR		Balakrishnan,S
5527 Combustion Processes Prerequisite: Mech Eng 3521. (Co-listed with Aero Eng 5527)	3.0- 3.0	77141	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Koylu,U
5571 Environmental Controls	3.0- 3.0	78289	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Williams JR,G
5708 Rapid Product Design And Optimization Prerequisite: Mech Eng 3708.	3.0- 3.0	75683	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Liou,F
5715 Concurrent Engineering Prerequisites: Mech Eng 3313 or Aero Eng 3131, and Civ Eng 2210. (Co-listed with Aero Eng 5715)	3.0- 3.0	75684	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Appelman,H
5763 Computer Aided Design: Theory and Practice Prerequisites: Comp Sci 1570 or Comp Sci 1970 or Comp Sci 1971, Mech Eng 2761, Math 2222, at least Junior standing.	3.0- 3.0		LEC	1DIS	MW	11:00 - 11:50 am	ARR		Leu,M
6000 Special Problems	0.0- 6.0	77122	IND	6DIS	ARR	ARR	ARR		Dharani,L
6001 Special Topics	3.0- 3.0	77987	LEC	1DIS	CANCELLED				
6099 Research	0.0-15.0	75885	IND	6DIS	ARR	ARR	ARR		Birman,V
	0.0-15.0	76248	IND	6DIA	ARR	ARR	ARR		Dharani,L
	0.0-15.0	76357	IND	6DIB	ARR	ARR	ARR		Kinzel,E
	0.0-15.0	76568	IND	6DIC	ARR	ARR	ARR		Krishnamurthy,K
	0.0-15.0	76572	IND	6DID	ARR	ARR	ARR		Landers,R
	0.0-15.0	77128	IND	6DIF	ARR	ARR	ARR		Leu,M
	0.0-15.0	77376	IND	6DIG	ARR	ARR	ARR		Okafor,A
	0.0-15.0	77378	IND	6DIH	ARR	ARR	ARR		Wojnar,C

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6222 Theory of Elasticity Prerequisites: CIV ENG 2210. (Co-listed with Aero Eng 6222)	3.0- 3.0	77994	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Dharani,L
									Distance Course Rates Apply
6284 Analysis of Laminated Composite Structures Prerequisite: Mech Eng 5282 or Aero Eng 5282. (Co-listed with Aero Eng 6284)	3.0- 3.0	75851	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Birman,V
									Distance Course Rates Apply
6447 Markov Decision Processes Prerequisite: Graduate standing in background of probability or statistics. (Co-listed with Comp Eng 6310, Mech Eng 6447, Eng Mgt 6410 and Comp Sci 6202)	3.0- 3.0	76203	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Wunsch,D
									Distance Course Rates Apply
6704 Mechanics of Machinery Prerequisites: Vector & matrix analysis; introductory planar kinematic & dynamic analysis of mechanisms; MECH ENG 5704 or equivalent.	3.0- 3.0	76865	LEC	1DIS	MWF	12:00 - 12:50 pm	ARR		Midha,A
									Distance Course Rates Apply

Mining Engineering

4512 Mine Management	3.0- 3.0	77087	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Weiss,D
									Communication Emphasized
									Distance Course Rates Apply
5912 Mine Power and Drainage	3.0- 3.0	78236	LEC	1DIS	MW	11:00 - 11:50 am	ARR		Galecki,G
									Distance Course Rates Apply
	3.0- 3.0	78237	LAB	3DIS	T	04:00 - 04:50 pm	ARR		Galecki,G
									Distance Course Rates Apply
5932 Underground Mining Methods Prerequisite: Preceded or accompanied by Min Eng 3913.	3.0- 3.0	78233	LEC	1DIS	ARR	ARR	ARR		Aouad,N
									Distance Course Rates Apply
6000 Special Problems	0.0- 6.0	76031	IND	6DIS	ARR	ARR	ARR		Aouad,N
									Distance Course Rates Apply
	0.0- 6.0	76435	IND	6DIA	ARR	ARR	ARR		Awuah-Offei,K
									Distance Course Rates Apply
	0.0- 6.0	76532	IND	6DIB	ARR	ARR	ARR		Galecki,G
									Distance Course Rates Apply
	0.0- 6.0	76567	IND	6DIC	ARR	ARR	ARR		Weiss,D
									Distance Course Rates Apply
	0.0- 6.0	77363	IND	6DID	ARR	ARR	ARR		Lusk,B
6001 Special Topics	3.0- 3.0	77916	LEC	1DIS	CANCELLED				
6080 Graduate Project Prerequisites: Graduate Standing.	3.0- 3.0	77054	IND	6DIS	ARR	ARR	ARR		Galecki,G
									Distance Course Rates Apply
	3.0- 3.0	77136	IND	6DIA	ARR	ARR	ARR		Weiss,D
									Distance Course Rates Apply
	3.0- 3.0	77366	IND	6DIB	ARR	ARR	ARR		Perry,K
									Distance Course Rates Apply
	3.0- 3.0	78395	IND	6DIC	ARR	ARR	ARR		Awuah-Offei,K
									Distance Course Rates Apply
6099 Research	0.0-15.0	77361	IND	6DIS	ARR	ARR	ARR		Lusk,B
6132 Advanced Mine Health And Safety Design Prerequisite: Graduate standing.	3.0- 3.0	75686	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		Weiss,D
									Distance Course Rates Apply
6622 Environmental Controls For Blasting Prerequisites: Min Eng 5612, Successful background check. (Co-listed with Exp Eng 6412)	3.0- 3.0		LEC	1DIS	ARR	ARR			
	3.0- 3.0	77272	LAB	3DIS	ARR	ARR			
6632 Theory Of High Explosives	3.0- 3.0	77913	LEC	1DIS	ARR	ARR	ARR		Baird,J
									Distance Course Rates Apply
6912 Simulation of Mining Systems	3.0- 3.0	78382	LEC	1DIS	TTh	04:00 - 05:15 pm	ARR		Awuah-Offei,K
									Distance Course Rates Apply

Philosophy

4354 Mathematical Logic I Prerequisite: Philos 1115 with junior standing or Math 5105 or Comp Sci 2500 or Comp Eng 2210. (Co-listed with Comp Eng 5803, Comp Sci 5203 and Math 5154)	3.0- 3.0	77333	LEC	1DIS	ARR	ARR	ARR		Insall,E
									Course runs from October 16 through November 10.
									See 'Notes' for Class Schedule
									Distance Course Rates Apply

Psychology

5020	Introduction to Industrial-Organizational Psychology	3.0- 3.0	78300	LEC 1DIS	Th	04:00 - 06:30 pm	ARR		Kueny,C
5202	Applied Psychological Data Analysis	3.0- 3.0	77560	LEC 1DIS	M	07:00 - 09:30 pm	ARR		Burns,D
5210	Advanced Research Methods Prerequisite: Graduate standing.	3.0- 3.0	76855	LEC 1DIS	W	04:00 - 06:30 pm	ARR		Weidner,N
5710	Advanced Human Factors (Co-listed with Eng Mgt 5330)	3.0- 3.0	77318	LEC 1DIS	T	07:00 - 09:30 pm	ARR		Baker,D
6602	Employee Affect and Behavior	3.0- 3.0	78052	LEC 1DIS	M	04:00 - 06:30 pm	ARR		Kueny,C
6611	Leadership for Engineers Prerequisite: Eng Mgt 5110 or Psych 4602. (Co-listed with Eng Mgt 6112)	3.0- 3.0	76415	LEC 1DIS	ARR	ARR	ARR		Daughton,W
6702	Personnel Selection Prerequisite: Psych 5700.	3.0- 3.0	77241	LEC 1DIS	T	04:00 - 06:30 pm	ARR		Stone,N

Statistics

5353	Statistical Data Analysis Prerequisites: Math 2222 and one of Stat 1115, 3113, 3115 and 3117.	3.0- 3.0	76032	LEC 1DIS	TTh	12:30 - 01:45 pm	ARR		Samaranayake,V
5643	Probability And Statistics Prerequisite: Math 2222.	3.0- 3.0	77619	LEC 1DIS	TTh	12:30 - 01:45 pm	ARR		Adekpedjou,A

Systems Engineering

5000	Special Problems	1.0- 6.0	76575	IND 6DIS	ARR	ARR	ARR		Dagli,C
5101	System Engineering and Analysis Prerequisite: Graduate Standing.	3.0- 3.0	75736	LEC 1DIS	T	04:00 - 06:30 pm	ARR		
5211	Computational Intelligence Prerequisite: Graduate Standing. (Co-listed with Elec Eng 5310 and Comp Eng 5310)	3.0- 3.0	76505	LEC 1DIS	W	04:00 - 06:30 pm	ARR		Corns,S
5323	Wireless Networks Prerequisites: Hardware competency, Elec Eng 3420 or Comp Eng 3150 and graduate standing. (Co-listed with Comp Eng 5430 and Elec Eng 5430)	3.0- 3.0	77510	LAB 3DIS	F	08:00 - 08:50 am	ARR		Zawodniok,M
6099	Research Prerequisite: Graduate standing.	1.0-15.0	76822	IND 6DIS	ARR	ARR	ARR		Corns,S
		1.0-15.0	76823	IND 6DIA	ARR	ARR	ARR		Cudney,E
		1.0-15.0	76975	IND 6DIB	ARR	ARR	ARR		Dagli,C
		1.0-15.0	76976	IND 6DIC	ARR	ARR	ARR		Enke,D
		1.0-15.0	76977	IND 6DID	ARR	ARR	ARR		Gosavi,A
		1.0-15.0	76978	IND 6DIE	CANCELLED				
		1.0-15.0	76979	IND 6DIF	CANCELLED				
		1.0-15.0	76980	IND 6DIG	CANCELLED				
		1.0-15.0	76981	IND 6DIH	ARR	ARR	ARR		Long,S
		1.0-15.0	76983	IND 6DIK	ARR	ARR	ARR		Qin,R
		1.0-15.0	76984	IND 6DIL	ARR	ARR	ARR		Raper,S
6102	Information Based Design Prerequisites: Graduate Standing.	3.0- 3.0	76082	LEC 1DIS	W	04:00 - 06:30 pm	ARR		Qin,R
6104	Systems Architecting Prerequisites: Graduate Standing.	3.0- 3.0	75785	LEC 1DIS	T	07:00 - 09:30 pm	ARR		Dagli,C
6196	Systems Engineering Capstone Prerequisites: Sys Eng 6105.	3.0- 3.0	75883	LEC 1DIS	M	07:00 - 09:30 pm	ARR		Pape II,L
6213	Deep Learning and Advanced Neural Networks	3.0- 3.0	77715	LEC 1DIS	W	04:00 - 06:30 pm	ARR		Dagli,C

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6239 Smart Engineering System Design Prerequisites: Graduate Standing.	3.0- 3.0	76866	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Dagli,C
									Distance Course Rates Apply
6541 Distributed Systems Modeling	3.0- 3.0	76869	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Merz,C
									Distance Course Rates Apply
6542 Model Based Systems Engineering	3.0- 3.0	78009	LEC	1DIS	F	04:00 - 06:30 pm	ARR		Do,Q
									Distance Course Rates Apply
6612 Investment Prerequisite: Eng Mgt 1210 or 5210. (Co-listed with Eng Mgt 6212)	3.0- 3.0	76930	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Enke,D
									Distance Course Rates Apply
6613 Financial Engineering Prerequisites: Eng Mgt 1210 or 5210. (Co-listed with Eng Mgt 6213)	3.0- 3.0	76931	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Enke,D
									Distance Course Rates Apply

Technical Communication

5530 Usability Studies	3.0- 3.0	78007	LEC	1DIS	ARR	ARR	ARR		Wright,M
									Distance Course Rates Apply
5620 Research Methods in Technical Communication	3.0- 3.0	78068	LEC	1DIS	T	07:00 - 07:50 am	ARR		Malone,E
6070 Teaching of Technical Communication	3.0- 3.0	78067	LEC	1DIS	CANCELLED				
6600 Foundations of Technical Communication	3.0- 3.0	78006	LEC	1DIS	W	07:00 - 07:50 pm	ARR		Malone,E
									Distance Course Rates Apply