

## 2019 SPRING SEMESTER DISTANCE EDUCATION CLASS OFFERINGS

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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
<b>Business</b>									
5580 <b>Strategic Management</b> 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
<b>Business</b>									
5730 <b>Machine Learning and Artificial Intelligence for Business</b>	3.0- 3.0	73154	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Flachsbart,B
									<b>Distance Course Rates Apply</b>
<b>Business</b>									
5980 <b>Business Models for Entrepreneurship and Innovation</b> Prerequisite: Senior or graduate standing.	3.0- 3.0	72548	LEC	1DIS	MWF	03:00 - 03:50 pm	ARR		Fang,H
6224 <b>Managerial Accounting and Control</b> Prerequisite: Graduate standing.	3.0- 3.0	71418	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Eng,L
									<b>See 'Notes' for Class Schedule</b>
									<b>Distance Course Rates Apply</b>
6425 <b>Supply Chain and Project Management</b> Prerequisite: Graduate standing.	3.0- 3.0	71419	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Elrod,C
6675 <b>Advanced International Business</b> 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
									<b>Distance Course Rates Apply</b>
6723 <b>Artificial Intelligence, Robotics, and Information Systems Management</b> Prerequisite: Graduate standing.	3.0- 3.0	71536	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Siau,K
									<b>Distance Course Rates Apply</b>
<b>Chemical Engineering</b>									
5130 <b>Risk Assessment and Reduction</b> 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
									<b>Distance Course Rates Apply</b>
5190 <b>Plantwide Process Control</b> 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
									<b>Distance Course Rates Apply</b>
<b>Civil Engineering</b>									
3842 <b>Fundamentals of Building Systems</b>	3.0- 3.0	72522	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		Gillis,W
									<b>Distance Course Rates Apply</b>
5001 <b>Special Topics</b>	3.0- 3.0		LEC	1DIS	T	07:00 - 08:00 pm	ARR		Holmes,R
									Environ Field Methods
									<b>Distance Course Rates Apply</b>
	3.0- 3.0	73445	LEC	1DIA	TTh	12:30 - 01:45 pm	ARR		Yan,G
									Wind Engineering
									<b>Distance Course Rates Apply</b>
	3.0- 3.0	73364	LAB	3DIS	ARR	ARR	ARR		Holmes,R
									Environ Field Methods
									<b>Distance Course Rates Apply</b>
5156 <b>Concrete Pavement Design</b>	3.0- 3.0	73458	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Liu,J
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>
5330 <b>Unsteady Flow Hydraulics</b>	3.0- 3.0	73395	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		
									<b>Distance Course Rates Apply</b>
5442 <b>Construction Planning and Scheduling Strategies</b> 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
									<b>Distance Course Rates Apply</b>
5448 <b>Green Engineering: Analysis of Constructed Facilities</b> 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
									<b>Distance Course Rates Apply</b>
5515 <b>Advanced Traffic Operations and Capacity Analysis</b>	3.0- 3.0	73255	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Hu,X
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5640 <b>Environmental Law And Regulations</b> (Co-listed with Env Eng 5640)	3.0- 3.0	71329	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Flechas,F
									<b>Distance Course Rates Apply</b>
5650 <b>Public Health Engineering</b> 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
									<b>Distance Course Rates Apply</b>
5744 <b>Geosynthetics in Engineering</b>	3.0- 3.0	72608	LEC	1DIS	W	04:00 - 06:30 pm	ARR		McLain,K
6001 <b>Special Topics</b>	3.0- 3.0	73253	LEC	1DIS	TTh	04:00 - 06:30 pm	ARR		Khayat,K
									Concrete Rheology & SCC
									<b>Distance Course Rates Apply</b>
6099 <b>Research</b>	0.0-15.0	71823	IND	6DIS	ARR	ARR	ARR		Chen,G
									<b>Distance Course Rates Apply</b>
6213 <b>Advanced Design in Steel and Lightweight Structures</b>	3.0- 3.0	73452	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		ElGawady,M
									<b>Distance Course Rates Apply</b>
6338 <b>Advanced Hydrology</b> Prerequisite: Civ Eng 3333.	3.0- 3.0	71546	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Wilson,L
									<b>Distance Course Rates Apply</b>
6612 <b>Biological Operations In Environmental Engineering Systems</b>	3.0- 3.0	73459	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Fitch,M
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>
6713 <b>Dynamics of Earth Materials</b>	3.0- 3.0	73455	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Olgun,C
									<b>Distance Course Rates Apply</b>
6715 <b>Advanced Soil Mechanics</b> Prerequisite: Civ Eng 5715.	3.0- 3.0	72128	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Deng,W
									<b>Distance Course Rates Apply</b>
6716 <b>Soil Stabilization</b> Prerequisite: Civ Eng 5715.	3.0- 3.0	72407	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Zhang,X
									<b>Distance Course Rates Apply</b>

## Computer Engineering

5099 <b>Special Research And Thesis</b>	1.0-15.0	70944	IND	6DIS	ARR	ARR	ARR		
									<b>Distance Course Rates Apply</b>
5110 <b>Principles of Computer Architecture</b>	3.0- 3.0	73267	LEC	1DIS	TTh	05:30 - 06:45 pm	ARR		Hurson,A
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>
5130 <b>Advanced Microcomputer System Design</b>	3.0- 3.0	73269	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Hanna,W
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>
5170 <b>Real-Time Systems</b> Prerequisites: COMP ENG 3150 or COMP SCI 3800.	3.0- 3.0	72257	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Zawodniok,M
									<b>Distance Course Rates Apply</b>
5220 <b>Digital System Modeling</b> 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
									<b>Distance Course Rates Apply</b>
5410 <b>Introduction to Computer Communication Networks</b> 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
									<b>Distance Course Rates Apply</b>
5450 <b>Digital Image Processing</b> 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
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>
5620 <b>Signal Integrity in High-Speed Digital &amp; Mixed Signal Design</b> 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
									<b>Distance Course Rates Apply</b>
5803 <b>Mathematical Logic I</b> 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.
									<b>See 'Notes' for Class Schedule</b>
									<b>Distance Course Rates Apply</b>
5820 <b>Mechatronics</b>	3.0- 3.0		LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Krishnamurthy,K
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>
	3.0- 3.0	73535	LAB	3DIS	ARR	ARR	ARR		Krishnamurthy,K
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6099 <b>Special Research and Thesis</b>	1.0-15.0	72447	IND	6DIS	ARR	ARR	ARR		Wunsch,D
									<b>Distance Course Rates Apply</b>
6110 <b>Advanced Computer Architecture I</b>	3.0- 3.0	73279	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Hurson,A
									<b>Distance Course Rates Apply</b>
6120 <b>Advanced Computer Architecture II</b>	3.0- 3.0	73281	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Hanna,W
									<b>Distance Course Rates Apply</b>
6302 <b>Advanced Topics in Data Mining</b> 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
									<b>Distance Course Rates Apply</b>
6320 <b>Adaptive Dynamic Programming</b>	3.0- 3.0	73271	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Wunsch,D
									<b>Distance Course Rates Apply</b>
6410 <b>Modeling Complex Systems</b> 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
									<b>Distance Course Rates Apply</b>
6420 <b>Wireless Ad hoc and Sensor Networks</b> 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
									<b>Distance Course Rates Apply</b>
6510 <b>Resilient Networks</b>	3.0- 3.0	73283	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Cetinkaya,E
									<b>Distance Course Rates Apply</b>

## Computer Science

4001 <b>Special Topics</b>	3.0- 3.0	73520	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		
									Intro to Cyber Security Offens
									<b>Distance Course Rates Apply</b>
4700 <b>Intellectual Property For Computer Scientists</b> Prerequisite: Senior or graduate standing.	3.0- 3.0	71354	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Canis,R
									<b>Distance Course Rates Apply</b>
5099 <b>Research</b>	0.0-16.0	71524	IND	6DIS	ARR	ARR	ARR		Das,S
									<b>Distance Course Rates Apply</b>
	0.0-16.0	71921	IND	6DIA	ARR	ARR	ARR		Hurson,A
									<b>Distance Course Rates Apply</b>
	0.0-16.0	71922	IND	6DIB	ARR	ARR	ARR		Jiang,W
									<b>Distance Course Rates Apply</b>
	0.0-16.0	71923	IND	6DIC	ARR	ARR	ARR		Leopold,J
									<b>Distance Course Rates Apply</b>
	0.0-16.0	71924	IND	6DID	ARR	ARR	ARR		Lin,D
									<b>Distance Course Rates Apply</b>
	0.0-16.0	71925	IND	6DIE	ARR	ARR	ARR		Madria,S
									<b>Distance Course Rates Apply</b>
	0.0-16.0	71926	IND	6DIF	ARR	ARR	ARR		McMillin,B
									<b>Distance Course Rates Apply</b>
	0.0-16.0	71927	IND	6DIG	ARR	ARR	ARR		Sabharwal,C
									<b>Distance Course Rates Apply</b>
	0.0-16.0	71928	IND	6DIH	ARR	ARR	ARR		Sedighsarvestani,S
									<b>Distance Course Rates Apply</b>
	0.0-16.0	71929	IND	6DIJ	ARR	ARR	ARR		Tauritz,D
									<b>Distance Course Rates Apply</b>
	0.0-16.0	71930	IND	6DIK	ARR	ARR	ARR		Wunsch,D
									<b>Distance Course Rates Apply</b>
	0.0-16.0	71931	IND	6DIL	ARR	ARR	ARR		Yin,Z
									<b>Distance Course Rates Apply</b>
5203 <b>Mathematical Logic I</b> 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.)	3.0- 3.0	72387	LEC	1DIS	ARR	ARR	ARR		Insall,E
									Class meets February 1st through March 1st, 2017. See 'Notes' for Class Schedule
									<b>Distance Course Rates Apply</b>
5204 <b>Regression Analysis</b> Prerequisites: Math 2222 and one of Stat 3111, 3113, 3115, 3117, or 5643. (Co-listed with Stat 5346)	3.0- 3.0	71935	LEC	1DIS	CANCELLED				

### 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.  
**Distance Course Rates Apply**

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.  
**Distance Course Rates Apply**

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.  
**Distance Course Rates Apply**

### 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)  
**Distance Course Rates Apply**

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)  
**Distance Course Rates Apply**

### Economics

4512 **Mine Management** 3.0- 3.0 73179 LEC 1DIS TTh 08:00 - 09:15 am ARR Galecki,G  
**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**

3100 **Electronics I** 3.0- 3.0 71846 LEC 1DIS MWF 09:00 - 09:50 am ARR Wu,C  
 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.  
**Distance Course Rates Apply**

3340 **Basic Programmable Logic Controllers** 3.0- 3.0 LEC 1DIS TTh 08:00 - 09:15 am ARR Erickson,K  
 Prerequisite: Preceded or accompanied by either Elec Eng 2120 or Elec Eng 2800.  
**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 1DIS 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**

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	3.0- 3.0	73290	LEC	1DIA	T	07:00 - 09:30 pm	ARR		Ferguson,I
									Introduction to Nanotechnology
									<b>Distance Course Rates Apply</b>
5300 <b>Digital Control</b>	3.0- 3.0	71361	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Acar,L
Prerequisite: Elec Eng 3320.									
									<b>Distance Course Rates Apply</b>
5345 <b>PLC Motion Control</b>	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Erickson,K
									<b>Distance Course Rates Apply</b>
	3.0- 3.0	73024	LAB	3DIS	W	03:00 - 04:50 pm	ARR		Erickson,K
									<b>Distance Course Rates Apply</b>
5350 <b>Plantwide Process Control</b>	3.0- 3.0	71847	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Erickson,K
Prerequisites: Chem Eng 4110, Elec Eng 3320, Elec Eng 3340 or graduate standing. (Co-listed with Chem Eng 5190)									
									<b>Distance Course Rates Apply</b>
5370 <b>Introduction to Neural Networks and Applications</b>	3.0- 3.0	71972	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Dagli,C
Prerequisites: Graduate Standing. (Co-listed with Sys Eng 5212)									
									<b>Distance Course Rates Apply</b>
5420 <b>Communications Systems II</b>	3.0- 3.0	72417	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Potter,C
Prerequisite: Elec Eng 3420.									
									<b>Distance Course Rates Apply</b>
5450 <b>Digital Image Processing</b>	3.0- 3.0	73510	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		Dua,R
Prerequisites: Elec Eng 3430. (Co-listed with Comp Eng 5450)									
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>
5500 <b>Electric Drive Systems</b>	3.0- 3.0	72864	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Shamsi,P
									<b>Distance Course Rates Apply</b>
5620 <b>Signal Integrity in High-Speed Digital &amp; Mixed Signal Design</b>	3.0- 3.0	70945	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Drewniak,J
Prerequisites: Elec Eng 3600 or Comp Eng 3150, and Senior standing. (Co-listed with Comp Eng 5620)									
									<b>Distance Course Rates Apply</b>
5870 <b>Mechatronics</b>	3.0- 3.0		LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Krishnamurthy,K
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>
	3.0- 3.0	73537	LAB	3DIS	ARR	ARR	ARR		Krishnamurthy,K
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>
6001 <b>Special Topics</b>	3.0- 3.0	73292	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Donnell,K
									HiFreq Sensor & Sensing Systms
									<b>Distance Course Rates Apply</b>
	3.0- 3.0	73431	LEC	1DIA	TTh	12:30 - 01:45 pm	ARR		Huang,J
									Intro to Nonlinear Optics
									<b>Distance Course Rates Apply</b>
6099 <b>Special Research And Thesis</b>	0.0-15.0	72409	IND	6DIS	ARR	ARR	ARR		Kimball,J
									<b>Distance Course Rates Apply</b>
6310 <b>Optimal Control And Estimation</b>	3.0- 3.0	72735	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Sarangapani,J
6360 <b>Adaptive Dynamic Programming</b>	3.0- 3.0	73273	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Wunsch,D
									<b>Distance Course Rates Apply</b>
6430 <b>Wireless Ad hoc and Sensor Networks</b>	3.0- 3.0	72725	LEC	1DIS	MWF	08:00 - 08:50 am	ARR		Zawodniok,M
Prerequisite: Comp Eng 5430 or Comp Eng 5420 or equivalent. (Co-listed with Comp Eng 6420 and Sys Eng 6324)									
6520 <b>Advanced Power Electronics</b>	3.0- 3.0	73298	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Ferdowski,M
									<b>Distance Course Rates Apply</b>
6530 <b>Power System Reliability</b>	3.0- 3.0	73300	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		Nauert,P
									<b>Distance Course Rates Apply</b>
6540 <b>Computer Methods In Power System Analysis</b>	3.0- 3.0	73302	LEC	1DIS	MWF	12:00 - 12:50 pm	ARR		Crow,M
									<b>Distance Course Rates Apply</b>
6565 <b>Power System Protection II</b>	3.0- 3.0	73195	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		Nauert,P
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>
6600 <b>Advanced Electromagnetics I</b>	3.0- 3.0	72259	LEC	1DIS	MWF	03:00 - 03:50 pm	ARR		Drewniak,J
Prerequisite: Elec Eng 3600 or equivalent undergraduate electromagnetics course.									
									<b>Distance Course Rates Apply</b>

## Engineering Management

4312	<b>Risk Assessment and Reduction</b> 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
										<b>Distance Course Rates Apply</b>
5111	<b>Management for Engineers and Scientists</b> Prerequisite: Graduate standing.	3.0- 3.0	71463	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Spurlock,D
										<b>Distance Course Rates Apply</b>
5212	<b>Intelligent Investing</b>	3.0- 3.0	72928	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Enke,D
										<b>Distance Course Rates Apply</b>
5312	<b>Advanced Risk Assessment and Reduction</b> Prerequisite: Senior or Graduate Standing.	3.0- 3.0	71973	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Schmidt,M
										<b>Distance Course Rates Apply</b>
5320	<b>Project Management</b> Prerequisite: Graduate Standing	3.0- 3.0	71003	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Berry,R
										<b>Distance Course Rates Apply</b>
5412	<b>Operations Management Science</b> Prerequisites: Graduate standing.	3.0- 3.0	71359	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Gosavi,A
										<b>Distance Course Rates Apply</b>
5512	<b>Legal Environment</b> Prerequisites: Senior or graduate standing.	3.0- 3.0	71487	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Canis,R
										<b>Distance Course Rates Apply</b>
5515	<b>Integrated Product And Process Design</b> 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
										<b>Distance Course Rates Apply</b>
5613	<b>Value Analysis</b> Prerequisite: Senior or graduate standing.	3.0- 3.0	71531	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Lin,H
										<b>Distance Course Rates Apply</b>
6099	<b>Research</b>	0.0-15.0	72031	IND	6DIS	ARR	ARR	ARR		Corns,S
										<b>Distance Course Rates Apply</b>
		0.0-15.0	72032	IND	6DIA	ARR	ARR	ARR		Cudney,E
										<b>Distance Course Rates Apply</b>
		0.0-15.0	72033	IND	6DIB	ARR	ARR	ARR		Dagli,C
										<b>Distance Course Rates Apply</b>
		0.0-15.0	72034	IND	6DIC	ARR	ARR	ARR		Enke,D
										<b>Distance Course Rates Apply</b>
		0.0-15.0	72035	IND	6DID	ARR	ARR	ARR		Gosavi,A
										<b>Distance Course Rates Apply</b>
		0.0-15.0	72036	IND	6DIE	ARR	ARR	ARR		Long,S
										<b>Distance Course Rates Apply</b>
		0.0-15.0	72037	IND	6DIF	ARR	ARR	ARR		Murray,S
										<b>Distance Course Rates Apply</b>
		0.0-15.0	72038	IND	6DIG	ARR	ARR	ARR		Qin,R
										<b>Distance Course Rates Apply</b>
		0.0-15.0	72039	IND	6DIH	ARR	ARR	ARR		Raper,S
										<b>Distance Course Rates Apply</b>
6110	<b>Case Studies In General Management</b> 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
										<b>Distance Course Rates Apply</b>
6211	<b>Advanced Financial Management</b> Prerequisite: Eng Mgt 1210 or 5210.	3.0- 3.0	71532	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Enke,D
										<b>Distance Course Rates Apply</b>
6215	<b>Financial Risk Management</b>	3.0- 3.0	73351	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Enke,D
										<b>Distance Course Rates Apply</b>
6323	<b>Global Project Management</b> Prerequisite: Eng Mgt 5320 or equivalent.	3.0- 3.0	71245	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Schuman,J
										<b>Distance Course Rates Apply</b>
6412	<b>Mathematical Programming</b>	3.0- 3.0	73380	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Kwasa,B
										<b>Distance Course Rates Apply</b>
6413	<b>Advanced Engineering Management Science</b>	3.0- 3.0	73384	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Canfield,C
										<b>Prerequisite</b>
6510	<b>Technological Innovation Management</b> Prerequisite: Eng Mgt 5111.	3.0- 3.0	70997	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Bade,J
										<b>Distance Course Rates Apply</b>
6710	<b>Design for Six Sigma</b>	3.0- 3.0	72780	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Cudney,E
										<b>Distance Course Rates Apply</b>

## Enterprise Resource Planning

2110	<b>Introduction to Enterprise Resource Planning</b>	3.0- 3.0	73412	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Lea,B
										<b>Distance Course Rates Apply</b>
										<b>Prerequisite</b>

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5110 <b>Enterprise Resource Planning Systems Design and Implementation</b>	3.0- 3.0	73157	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Claybaugh,C
									<b>Distance Course Rates Apply</b>
5210 <b>Performance Dashboard, Scorecard and Data Visualization</b>	3.0- 3.0	71867	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Lea,B
									<b>Distance Course Rates Apply</b>
Prerequisite: ERP 2110 or preceded or accompanied by ERP 5110.									
5240 <b>Enterprise Application Development and Software Security</b>	3.0- 3.0	73159	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Claybaugh,C
									<b>Distance Course Rates Apply</b>
6444 <b>Essentials of Data Warehouses</b>	3.0- 3.0	71514	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Yu,W
									<b>Distance Course Rates Apply</b>
Prerequisite: IS&T 3423 or equivalent relational database experience. (Co-listed with IS&T 6444)									

## Environmental Engineering

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

## Explosives Engineering

5001 <b>Special Topics</b>	3.0- 3.0	73409	LEC	1DIS	ARR	ARR	ARR		Worsey,P
									Underwater Blasting
									<b>Distance Course Rates Apply</b>
5514 <b>Display Fireworks Manufacturing</b>	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Hall,S
									<b>Distance Course Rates Apply</b>
	3.0- 3.0		LEC	1DIA	ARR	ARR	ARR		Hall,S
									<b>Distance Course Rates Apply</b>
	3.0- 3.0	72149	LAB	3DIS	ARR	ARR	ARR		Hall,S
									<b>Distance Course Rates Apply</b>
	3.0- 3.0	72541	LAB	3DIA	ARR	ARR	ARR		Hall,S
									<b>Distance Course Rates Apply</b>
5612 <b>Principles of Explosives Engineering</b>	3.0- 3.0		LEC	1DIA	ARR	ARR	ARR		Perry,K
									<b>Distance Course Rates Apply</b>
Prerequisites: Min Eng 2126; successful background check. (Co-listed with Min Eng 5612)									
	3.0- 3.0	72400	LAB	3DIA	ARR	ARR	ARR		Perry,K
									<b>Distance Course Rates Apply</b>
5622 <b>Blasting Design And Technology</b>	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Worsey,P
									"BACKGROUND CHECK REQUIRED IN ADVANCE. SEE SECRETARY IN MCNUTT 227."
									<b>Distance Course Rates Apply</b>
	3.0- 3.0	71557	LAB	3DIS	ARR	ARR	ARR		Worsey,P
									<b>Distance Course Rates Apply</b>
5713 <b>Demolition of Buildings and Structures</b>	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		
									<b>Distance Course Rates Apply</b>
Prerequisites: Preceded or accompanied by Civ Eng 2200 or Mech Eng 2340; US citizen or permanent resident; Successful background check.									
	3.0- 3.0	71695	LAB	3DIS	ARR	ARR	ARR		Vaill,J
									<b>Distance Course Rates Apply</b>
	3.0- 3.0	72398	LAB	3DIA	ARR	ARR	ARR		Vaill,J
									<b>Distance Course Rates Apply</b>
5721 <b>Specialty Uses of Energetic Materials</b>	3.0- 3.0	72740	LEC	1DIS	ARR	ARR	ARR		Worsey,P
									<b>Distance Course Rates Apply</b>



CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5922 <b>Tunneling &amp; Underground Construction Techniques</b>	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)	3.0- 3.0		LAB	3DIS	ARR	00:00 - 00:00 am			Perry,K
6001 <b>Special Topics</b>	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Petr,V
	3.0- 3.0	73187	LAB	3DIS	ARR	ARR	ARR		Petr,V
6080 <b>Industry Project</b>	3.0- 3.0	71698	LAB	3DIS	ARR	ARR	ARR		Worsey,P
Prerequisite: 12 hours Exp Eng coursework.	3.0- 3.0	72393	LAB	3DIA	ARR	ARR	ARR		Johnson,C
	3.0- 3.0	73189	LAB	3DIB	ARR	ARR	ARR		Perry,K
6099 <b>Research</b>	0.0-15.0	72542	IND	6DIS	ARR	ARR	ARR		Worsey,P
Prerequisites: Consent of instructor required.	0.0-15.0	73190	IND	6DIA	ARR	ARR	ARR		Perry,K
	0.0-15.0	73191	IND	6DIB	ARR	ARR	ARR		Johnson,C
6112 <b>Explosives Regulations</b>	3.0- 3.0	72126	LEC	1DIS	ARR	ARR	ARR		Worsey,G
Prerequisite: Graduate standing.	3.0- 3.0	72150	LEC	1DIA	ARR	ARR	ARR		Worsey,G
6312 <b>Scientific Instrumentation For Explosives Testing &amp; Blasting</b>	3.0- 3.0		LEC	1DIS	Th	10:00 - 12:00 pm	ARR		Johnson,C
	3.0- 3.0	73192	LAB	3DIS	Th	01:00 - 03:15 pm	ARR		Johnson,C

## Finance

5260 <b>Investments I</b>	3.0- 3.0	73160	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Zhang,H
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## Geological Engineering

2605 <b>Statics and Mechanics of Geologic Materials</b>	3.0- 3.0	72424	LEC	1DIS	ARR	ARR	ARR		Gertsch,L
Prerequisite: Permission of instructor.	3.0- 3.0	71576	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		
4115 <b>Statistical Methods in Geology and Engineering</b>	3.0- 3.0		LEC	1DIS	T	07:00 - 08:00 pm	ARR		Holmes,R
5001 <b>Special Topics</b>	3.0- 3.0	73368	LAB	3DIS	ARR	ARR	ARR		Holmes,R
5099 <b>Research</b>	0.0-15.0	71144	IND	6DIS	ARR	ARR	ARR		Grote,K
	0.0-15.0	71825	IND	6DIA	ARR	ARR	ARR		Maerz,N
	0.0-15.0	72972	IND	6DIB	ARR	ARR	ARR		Rogers,J
5276 <b>Advanced Environmental Aspects Of Mining</b>	3.0- 3.0	73184	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Awuah-Offei,K
5381 <b>Intermediate Subsurface Hydrology And Contaminant Transport Mechs</b>	3.0- 3.0	71198	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Grote,K
Prerequisites: Civ Eng 3330 & Geo Eng 5331.	3.0- 3.0		LEC	1DIS	M	04:00 - 06:30 pm	ARR		Maerz,N
5443 <b>Subsurface Exploration</b>	3.0- 3.0	71197	LAB	3DIS	T	12:30 - 03:15 pm	ARR		Maerz,N
Prerequisite: Geo Eng 1150.	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		
5782 <b>Environmental and Engineering Geophysics</b>	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		
Prerequisite: Math 2222. (Co-listed with Geophys 5782)									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	3.0- 3.0	71779	LAB	3DIS	ARR	ARR			
			<b>Distance Course Rates Apply</b>						
6000 <b>Special Problems</b>	0.0- 6.0	71317	IND	6DIS	ARR	ARR			Maerz,N
			<b>Distance Course Rates Apply</b>						
6099 <b>Research</b>	0.0-15.0	72963	IND	1DIS	ARR	ARR			Grote,K
			<b>Distance Course Rates Apply</b>						
	0.0-15.0	72973	IND	1DIA	ARR	ARR			Maerz,N
			<b>Distance Course Rates Apply</b>						
6400 <b>Practice Oriented Project</b> Prerequisites: Limited to students enrolled in the Masters of Engineering (M.E.) in Geotechnics Program.	3.0- 3.0	72408	IND	6DIS	ARR	ARR			Maerz,N
			<b>Distance Course Rates Apply</b>						
6625 <b>Applications in Geological Engineering</b>	3.0- 3.0	73551	LEC	1DIS	W	04:00 - 06:30 pm			Rogers,J
			<b>Distance Course Rates Apply</b>						
6736 <b>Advanced Geophysical Methods</b>	3.0- 3.0	73419	LEC	1DIS	<b>CANCELLED</b>				
	3.0- 3.0	73420	LAB	3DIS	<b>CANCELLED</b>				
6782 <b>Surface Waves (MASW) and Ground Penetrating Radar (GPR)</b> Prerequisites: Geo Eng 1150 or Civ Eng 3715 or equivalent, and graduate standing.	3.0- 3.0		LEC	1DIA	ARR	ARR			Anderson,N
			<b>Distance Course Rates Apply</b>						
	3.0- 3.0	71902	LAB	3DIA	ARR	ARR			Anderson,N
			<b>Distance Course Rates Apply</b>						
6784 <b>Advanced Engineering And Environmental Geophysics</b> Prerequisite: Admittance into USAES-S&T Co-operative Degree Program. (Co-listed with Geophys 5251)	3.0- 3.0	71820	LEC	1DIS	ARR	ARR			Anderson,N
			<b>Distance Course Rates Apply</b>						

## Geophysics

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

## Info Science & Technology

4444 <b>Introduction to Data Warehouses</b>	3.0- 3.0	72997	LEC	1DIS	TTh	02:00 - 03:15 pm			Yu,W
			<b>Distance Course Rates Apply</b>						
5000 <b>Special Problems</b>	0.0- 6.0	71439	IND	6DIS	ARR	ARR			Lea,B
			<b>Distance Course Rates Apply</b>						
	0.0- 6.0	71442	IND	6DIA	ARR	ARR			Yu,W
			<b>Distance Course Rates Apply</b>						
5099 <b>Research</b>	0.0-15.0	71822	IND	6DIS	ARR	ARR			Lea,B
			<b>Distance Course Rates Apply</b>						
5420 <b>Business Analytics and Data Science</b> Prerequisites: Calculus, Statistics, and Programming knowledge.	3.0- 3.0	72099	LEC	1DIS	MWF	11:00 - 11:50 am			Hilgers,M
			<b>Distance Course Rates Apply</b>						
5520 <b>Data Science and Machine Learning with Python</b> 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			Chen,L
			<b>Distance Course Rates Apply</b>						
5535 <b>Machine Learning Algorithms and Applications</b>	3.0- 3.0	73164	LEC	1DIS	MWF	02:00 - 02:50 pm			Chen,L
			<b>Distance Course Rates Apply</b>						
5885 <b>Human-Computer Interaction</b> Prerequisite: Psych 1101.	3.0- 3.0	71997	LEC	1DIS	MWF	02:00 - 02:50 pm			Bates,C
			<b>Distance Course Rates Apply</b>						
5887 <b>Human-Computer Interaction Evaluation</b> Prerequisite: Preceded or accompanied by IS&T 5885.	3.0- 3.0		LEC	1DIS	ARR	ARR			Hall,R
	3.0- 3.0	72550	LAB	3DIS	ARR	ARR			Hall,R

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6336 <b>Foundations of Internet Computing</b> 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
									<b>Distance Course Rates Apply</b>
6444 <b>Essentials of Data Warehouses</b> 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
									<b>Distance Course Rates Apply</b>
6445 <b>Database Marketing</b> Prerequisite: Statistics understanding, programming understanding, familiarity with spreadsheets.	3.0- 3.0	71621	LEC	1DIB	W	04:00 - 06:30 pm	ARR		Fletcher,K
									<b>Distance Course Rates Apply</b>
6641 <b>Advanced Digital Commerce and the Internet of Things</b>	3.0- 3.0	73165	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Bates,C
									<b>Distance Course Rates Apply</b>
6654 <b>Advanced Web and Digital Media Development</b>	3.0- 3.0	72101	LEC	1DIS	TTh	03:30 - 04:45 pm	ARR		Hall,R
									<b>Distance Course Rates Apply</b>

## Mathematics

5154 <b>Mathematical Logic I</b> 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 <b>Distance Course Rates Apply</b>
6601 <b>Numerical Analysis</b>	3.0- 3.0	73526	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		He,X
6602 <b>Mathematical Foundation of Finite Element Methods</b>	3.0- 3.0	73546	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		He,X
									<b>Distance Course Rates Apply</b>
6665 <b>Mathematical Programming</b>	3.0- 3.0	73382	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Kwasa,B
									<b>Distance Course Rates Apply</b>

## Mechanical Engineering

4000 <b>Special Problems</b> Prerequisite: Consent of instructor.	0.0- 6.0	71623	IND	6DIS	ARR	ARR	ARR		Chandrashekhara,K
									<b>Distance Course Rates Apply</b>
5000 <b>Special Problems</b>	0.0- 6.0	71441	IND	6DIS	ARR	ARR	ARR		Appelman,H
									<b>Distance Course Rates Apply</b>
	0.0- 6.0	71703	IND	6DIA	ARR	ARR	ARR		Landers,R
									<b>Distance Course Rates Apply</b>
	0.0- 6.0	71727	IND	6DIB	ARR	ARR	ARR		Liou,F
									<b>Distance Course Rates Apply</b>
5234 <b>Stability of Engineering Structures</b>	3.0- 3.0	73227	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Birman,V
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>
5236 <b>Fracture Mechanics</b> 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
									<b>Distance Course Rates Apply</b>
5282 <b>Introduction to Composite Materials &amp; Structures</b> 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
									<b>Distance Course Rates Apply</b>
5478 <b>Mechatronics</b>	3.0- 3.0		LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Krishnamurthy,K
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>
	3.0- 3.0	73539	LAB	3DIS	ARR	ARR	ARR		Krishnamurthy,K
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>
5537 <b>Fuel Cell Principles</b>	3.0- 3.0	73477	LEC	1DIS	CANCELLED				
5543 <b>Energy Efficiency of Vehicles</b>	3.0- 3.0	73576	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Carroll,D
									<b>Distance Course Rates Apply</b>
5575 <b>Mechanical Systems For Environmental Control</b> Prerequisites: Mech Eng 3521 and 3525; or Mech Eng 2527 and Civ Eng 3330.	3.0- 3.0	71884	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Williams JR,G
									<b>Distance Course Rates Apply</b>
5656 <b>Design For Manufacture</b> Prerequisites: Mech Eng 3708, Mech Eng 3653.	3.0- 3.0	71054	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Appelman,H
									<b>Distance Course Rates Apply</b>

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

## Mining Engineering

4512 <b>Mine Management</b>	3.0- 3.0	73178	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		Galecki,G
									<b>Distance Course Rates Apply</b>
									<b>Prerequisite</b>
5412 <b>Aggregates Materials Sizing and Characterization</b> Prerequisite: Mi Eng 4412 or Consent of Instructor.	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Galecki,G
									<b>Distance Course Rates Apply</b>
	3.0- 3.0	72143	LAB	3DIS	ARR	ARR	ARR		Galecki,G
									<b>Distance Course Rates Apply</b>
5423 <b>Flotation and Hydrometallurgy</b> Prerequisites: Mi Eng 4423 or Consent of Instructor.	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Alagha,L
									<b>Distance Course Rates Apply</b>
	3.0- 3.0	72427	LAB	3DIS	ARR	ARR	ARR		
									<b>Distance Course Rates Apply</b>

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5424 <b>Mineral Processing II Mechanics And Design</b>	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
5522 <b>Ore Reserve Analysis and Geostatistics</b>	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
5742 <b>Environmental Aspects of Mining</b>	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)									
5823 <b>Rock Mechanics</b>	3.0- 3.0		LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Sherizadeh,T
	3.0- 3.0	73582	LAB	3DIS	ARR	ARR	ARR		Sherizadeh,T
5922 <b>Tunneling &amp; Underground Construction Techniques</b>	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
5933 <b>Surface Mining Methods</b>	3.0- 3.0	72145	LEC	1DIS	MWF	04:00 - 04:50 pm	ARR		Frimpong,S
Prerequisites: Min Eng 4933 or Consent of Instructor.									
6000 <b>Special Problems</b>	0.0- 6.0	70946	IND	6DIS	ARR	ARR	ARR		Galecki,G
	0.0- 6.0	71407	IND	6DIA	ARR	ARR	ARR		Weiss,D
6001 <b>Special Topics</b>	3.0- 3.0	73186	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Weiss,D
						Intgrate NEPA and Proj Mgmt			
6080 <b>Graduate Project</b>	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
6522 <b>Mining Property Feasibility Studies And Evaluation Procedure</b>	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

## Nuclear Engineering

6099 <b>Research</b>	0.0-15.0	72198	IND	6DIS	ARR	ARR	ARR		Lee,H

## Petroleum Engineering

4720 <b>Mechanical Earth Modeling</b>	3.0- 3.0	73498	LEC	1DIS	MWF	12:00 - 12:50 pm	ARR		Hilgedick,S

## Philosophy

4354 <b>Mathematical Logic I</b>	3.0- 3.0	72388	LEC	1DIS	ARR	ARR	ARR		Insall,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 <b>Special Topics</b>	3.0- 3.0	73206	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Murray,S
						Occ Health & Safety			
						Distance Course Rates Apply			
5012 <b>Ethics and Professional Responsibilities</b>	1.0- 1.0	72836	LEC	1DIS	Th	05:00 - 05:50 pm	ARR		
						Distance Course Rates Apply			
5201 <b>Psychometrics</b>	3.0- 3.0	71943	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Burns,D
Prerequisite: Psych 5202.						Distance Course Rates Apply			

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5601 <b>Small Group Dynamics</b> Prerequisite: Psych 4601 or graduate standing.	3.0- 3.0	72520	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Shank,D
									<b>Distance Course Rates Apply</b>
5700 <b>Job Analysis and Performance Management</b> Prerequisite: Psych 4700 or graduate standing.	3.0- 3.0	72772	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Stone,N
									<b>Distance Course Rates Apply</b>
6610 <b>Leadership, Motivation, and Culture</b> Prerequisite: Psych 4610 or graduate standing.	3.0- 3.0	72613	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Weidner,N
									<b>Distance Course Rates Apply</b>
6700 <b>Training and Development</b>	3.0- 3.0	73204	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Weidner,N
									<b>Distance Course Rates Apply</b>

## Statistics

5346 <b>Regression Analysis</b> 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	<b>CANCELLED</b>					
5643 <b>Probability And Statistics</b> Prerequisite: Math 2222.	3.0- 3.0	72490	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Wen,X	
									<b>Distance Course Rates Apply</b>	
6344 <b>Design And Analysis Of Experiments</b>	3.0- 3.0	71705	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Samaranayake,V	
									<b>Distance Course Rates Apply</b>	

## Systems Engineering

5000 <b>Special Problems</b>	1.0- 6.0	72216	IND	6DIS	ARR	ARR	ARR		Dagli,C
									<b>Distance Course Rates Apply</b>
5101 <b>System Engineering and Analysis</b> Prerequisite: Graduate Standing.	3.0- 3.0	71327	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Pape II,L
									<b>Distance Course Rates Apply</b>
5212 <b>Introduction to Neural Networks and Applications</b> 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
									<b>Distance Course Rates Apply</b>
6050 <b>Continuous Registration</b>	1.0- 1.0	71250	IND	6DIS	ARR	ARR	ARR		Long,S
									<b>Distance Course Rates Apply</b>
6099 <b>Research</b> Prerequisite: Graduate standing.	1.0-15.0	72042	IND	6DIS	ARR	ARR	ARR		Corns,S
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72043	IND	6DIA	ARR	ARR	ARR		Cudney,E
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72044	IND	6DIB	ARR	ARR	ARR		Dagli,C
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72045	IND	6DIC	ARR	ARR	ARR		Enke,D
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72046	IND	6DID	ARR	ARR	ARR		Gosavi,A
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72047	IND	6DIE	ARR	ARR	ARR		Long,S
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72048	IND	6DIF	ARR	ARR	ARR		Qin,R
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72049	IND	6DIG	ARR	ARR	ARR		Raper,S
									<b>Distance Course Rates Apply</b>
6102 <b>Information Based Design</b> Prerequisites: Graduate Standing.	3.0- 3.0	71046	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Qin,R
									<b>Distance Course Rates Apply</b>
6103 <b>Systems Life Cycle Costing</b> Prerequisites: Graduate Standing.	3.0- 3.0	71164	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Yildirim,G
									<b>Distance Course Rates Apply</b>
6104 <b>Systems Architecting</b> Prerequisites: Graduate Standing.	3.0- 3.0	71047	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Dagli,C
									<b>Distance Course Rates Apply</b>
6110 <b>Risk Modeling and Optimization under Uncertainty</b>	3.0- 3.0	72781	LEC	1DIS	MWF	12:00 - 12:50 pm	ARR		Qin,R
									<b>Distance Course Rates Apply</b>
6196 <b>Systems Engineering Capstone</b> Prerequisites: Sys Eng 6105.	3.0- 3.0	71270	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Pape II,L
									<b>Distance Course Rates Apply</b>
6216 <b>Advanced Topics in Data Mining</b> 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
									<b>Distance Course Rates Apply</b>

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6321 <b>Modeling Complex Systems</b> 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
									<b>Distance Course Rates Apply</b>
6322 <b>Resilient Networks</b>	3.0- 3.0	73285	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Cetinkaya,E
									<b>Distance Course Rates Apply</b>
6324 <b>Wireless Ad hoc and Sensor Networks</b> 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 <b>Model Based Systems Engineering</b> 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
									<b>Distance Course Rates Apply</b>
6615 <b>Financial Risk Management</b>	3.0- 3.0	73350	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Enke,D
									<b>Distance Course Rates Apply</b>

## Technical Communication

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