

## 2017 FALL SEMESTER DISTANCE EDUCATION CLASS OFFERINGS

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
<b>Aerospace Engineering</b>									
5131 <b>Intermediate Thermofluid Mechanics</b> Prerequisite: Mech Eng 3131 or Aero Eng 3131. (Co-listed with Mech Eng 5131)	3.0- 3.0	72095	LEC	1DIS	MWF	03:00 - 03:50 pm	ARR		Homan,K
									<b>Distance Course Rates Apply</b>
5139 <b>Computational Fluid Dynamics</b> Prerequisites: Comp Sci 1570 or 1970 or 1971; one course in fluid mechanics. (Co-listed with Mech Eng 5139)	3.0- 3.0	71646	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Isaac,K
									<b>Distance Course Rates Apply</b>
5169 <b>Introduction to Hypersonic Flow</b> Prerequisites: Aero Eng 3171.	3.0- 3.0	80851	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Hosder,S
									<b>Distance Course Rates Apply</b>
5212 <b>Introduction to Finite Element Analysis</b> 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	71755	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Chandrashekhara,K
									<b>Distance Course Rates Apply</b>
5238 <b>Fatigue Analysis</b> Prerequisite: Civ Eng 2210. (Co-listed with Mech Eng 5238)	3.0- 3.0	71280	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Dharani,L
									<b>Distance Course Rates Apply</b>
5449 <b>Robotic Manipulators and Mechanisms</b> Prerequisites: Mech Eng 3313; Comp Sci 1970 or Comp Sci 1971 or Comp Sci 1972 or Comp Sci 1570. (Co-listed with Mech Eng 5449)	3.0- 3.0		LEC	1DIS	MW	08:00 - 08:50 am	ARR		Bristow,D
									<b>Distance Course Rates Apply</b>
	3.0- 3.0	80968	LAB	3DIS	F	08:00 - 08:50 am	ARR		Bristow,D
									<b>Distance Course Rates Apply</b>
5481 <b>Mechanical and Aerospace Control Systems</b> Prerequisite: Mech Eng 4479 or Aero Eng 3361. (Co-listed with Mech Eng 5481)	3.0- 3.0	71284	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Balakrishnan,S
									<b>Distance Course Rates Apply</b>
5527 <b>Combustion Processes</b> Prerequisite: Mech Eng 3521. (Co-listed with Mech Eng 5527)	3.0- 3.0	72860	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Koylu,U
									<b>Distance Course Rates Apply</b>
5715 <b>Concurrent Engineering</b> Prerequisites: Mech Eng 3313 or Aero Eng 3131 and Civ Eng 2210 (Co-listed with Mech Eng 5715)	3.0- 3.0	71331	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Appelman,H
									<b>Distance Course Rates Apply</b>
6001 <b>Special Topics</b>	3.0- 3.0	81137	LEC	1DIS	MWF	12:00 - 12:50 pm	ARR		Homan,K
									Adv Comp Thermofluid
									Prerequisites: Mech Eng 5131 or Aero Eng 5131; Mech Eng 5139 or Aero Eng 5139. (Co-listed with Mech Eng 6001)
									<b>Distance Course Rates Apply</b>
	3.0- 3.0	81140	LEC	1DIA	TTh	08:00 - 09:15 am	ARR		Rovey,J
									Electric Space Propul
									Prerequisites: One of: Aero Eng 5131, Mech Eng 5131, Aero Eng 5535, Mech Eng 5535, Aero Eng 5570, Mech Eng 5570, Nuc Eng 5570, Phys 5570, Aero Eng 6137, Mech Eng 6137. (Co-listed with Mech Eng 6001)
									<b>Distance Course Rates Apply</b>
6099 <b>Research</b> Prerequisite: Consent of instructor required.	0.0-15.0	72055	IND	6DIS	ARR	ARR	ARR		Birman,V
									<b>Distance Course Rates Apply</b>
	0.0-15.0	73154	IND	6DIA	ARR	ARR	ARR		Dharani,L
									<b>Distance Course Rates Apply</b>
	0.0-15.0	73207	IND	6DIB	ARR	ARR	ARR		Duan,L
									<b>Distance Course Rates Apply</b>
	0.0-15.0	81178	IND	6DID	ARR	ARR	ARR		Hosder,S
									<b>Distance Course Rates Apply</b>

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6284 <b>Analysis of Laminated Composite Structures</b> Prerequisite: Mech Eng 5282 or Aero Eng 5282. (Co-listed with Mech Eng 6284)	3.0- 3.0	71378	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Birman,V
									<b>Distance Course Rates Apply</b>
6447 <b>Markov Decision Processes</b> 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	71763	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Gosavi,A
									<b>Distance Course Rates Apply</b>
6481 <b>Advanced Topics in Decision and Control</b>	3.0- 3.0	81053	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Balakrishnan,S
									<b>Distance Course Rates Apply</b>

## Architectural Engineering

5206 <b>Low-Rise Building Analysis And Design</b> 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	72995	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Thomas,J
									<b>Distance Course Rates Apply</b>
5208 <b>Structural Dynamics</b> Prerequisites: Mech Eng 2350 or equivalent; Civ/Arch Eng 3201 or equivalent. (Co-listed with Civ Eng 5208)	3.0- 3.0	80959	LEC	1DIS	TTh	03:30 - 04:45 pm	ARR		Chen,G
									<b>Distance Course Rates Apply</b>
5445 <b>Construction Methods</b> Prerequisite: Arch Eng 4448 with a grade of "C" or better. (Co-listed with Civ Eng 5445)	3.0- 3.0	71336	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Augenstein,A
									<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 Civ Eng 5448)	3.0- 3.0	72011	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Scott-Showalter,P
									<b>Distance Course Rates Apply</b>
5449 <b>Engineering and Construction Contract Specifications</b> Prerequisite: Arch Eng 4448 with a grade of "C" or better. (Co-listed with Civ Eng 5449)	3.0- 3.0	73043	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Scott-Showalter,P
									<b>Distance Course Rates Apply</b>
5642 <b>Sustainability, Population, Energy, Water, and Materials</b> Prerequisite: Senior or graduate standing. (Co-listed with Env Eng 5642 and Civ Eng 5642)	3.0- 3.0	72822	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Fitch,M
									<b>Distance Course Rates Apply</b>
5872 <b>Environmental Controls</b> Prerequisites: Mech Eng 3521 and accompanied or preceded by Mech Eng 3525; or Mech Eng 2527 and Civ Eng 3330. (Co-listed with Mech Eng 5571)	3.0- 3.0	72134	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Williams JR,G
									<b>Distance Course Rates Apply</b>

## Business

4111 <b>Business Negotiations</b> Prerequisites: At least Junior status.	3.0- 3.0	71681	LEC	1DIS	M	04:00 - 06:30 pm	ARR		
									<b>Distance Course Rates Apply</b>
5001 <b>Special Topics</b>	3.0- 3.0	80907	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Chiu,Y
									Financial Statement Analysis Prerequisite: Finance 2150 or Graduate standing. <b>Distance Course Rates Apply</b>
5115 <b>Teambuilding and Leadership in Business Settings</b>	3.0- 3.0	81085	LEC	1DIS	CANCELLED				
5230 <b>Financial Statement Analysis</b> Prerequisite: FINANCE 2150 or Graduate Standing.	3.0- 3.0	81146	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Chiu,Y
									<b>Distance Course Rates Apply</b>
6111 <b>Advanced Business Negotiations</b> Prerequisite: Graduate status.	3.0- 3.0	72614	LEC	1DIS	M	04:00 - 06:30 pm	ARR		
									<b>Distance Course Rates Apply</b>
6121 <b>Teambuilding and Leadership</b> Prerequisite: Graduate standing.	3.0- 3.0	72615	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Elrod,C
									<b>Distance Course Rates Apply</b>
6426 <b>Integration of Business Areas</b> Prerequisite: Graduate standing.	3.0- 3.0	71840	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Fang,H
									<b>Distance Course Rates Apply</b>

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6622 <b>International Marketing</b> Prerequisite: Graduate standing.	3.0- 3.0	71640	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Stanley,S
									<b>Distance Course Rates Apply</b>
6827 <b>Managerial Finance</b> Prerequisite: Graduate standing.	3.0- 3.0	71666	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Zhang,H
									<b>Distance Course Rates Apply</b>
6887 <b>Research Methods in Business and IS&amp;T</b> (Co-listed with IS&T 6887)	3.0- 3.0	72728	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Nah,F
									<b>Distance Course Rates Apply</b>
<b>Chemical Engineering</b>									
4140 <b>Chemical Process Safety</b> Prerequisite: Preceded or accompanied by Chem Eng 3150.	3.0- 3.0	81179	LEC	1DIS	MWF	08:00 - 08:50 am	ARR		Ludlow,D
									<b>Distance Course Rates Apply</b>
5140 <b>Intermediate Chemical Process Safety</b> Prerequisite: Graduate Standing.	3.0- 3.0	81181	LEC	1DIS	MWF	08:00 - 08:50 am	ARR		Ludlow,D
									<b>Distance Course Rates Apply</b>
<b>Civil Engineering</b>									
5000 <b>Special Problems</b>	0.0- 6.0	72120	IND	6DIS	ARR	ARR	ARR		Fitch,M
									<b>Distance Course Rates Apply</b>
5206 <b>Low-Rise Building Analysis and Design</b> 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	72996	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Thomas,J
									<b>Distance Course Rates Apply</b>
5208 <b>Structural Dynamics</b> Prerequisites: Mech Eng 2350 or equivalent; Civ/Arch Eng 3201 or equivalent. (Co-listed with Arch Eng 5208)	3.0- 3.0	80958	LEC	1DIS	TTh	03:30 - 04:45 pm	ARR		Chen,G
									<b>Distance Course Rates Apply</b>
5445 <b>Construction Methods</b> Prerequisite: Civ Eng 4448 with a grade of "C" or better. (Co-listed with Arch Eng 5445)	3.0- 3.0	71337	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Augenstein,A
									<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	72013	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Scott-Showalter,P
									<b>Distance Course Rates Apply</b>
5449 <b>Engineering and Construction Contract Specifications</b> Prerequisite: Civ Eng 4448 with a grade of "C" or better. (Co-listed with Arch Eng 5449)	3.0- 3.0	73042	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Scott-Showalter,P
									<b>Distance Course Rates Apply</b>
5513 <b>Traffic Engineering</b> Prerequisite: Civ Eng 3500 with a grade of "C" or better.	3.0- 3.0	72107	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		
									<b>Distance Course Rates Apply</b>
5515 <b>Advanced Traffic Signal Operations</b> Prerequisite: CIV ENG 5513.	3.0- 3.0	80960	LEC	1DIS	CANCELLED				
5642 <b>Sustainability, Population, Energy, Water, and Materials</b> Prerequisite: Senior or graduate standing. (Co-listed with Env Eng 5642 and Arch Eng 5642)	3.0- 3.0	72821	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Fitch,M
									<b>Distance Course Rates Apply</b>
5715 <b>Intermediate Soil Mechanics</b> Prerequisites: Civ Eng 3715 with grade of "C" or better.	3.0- 3.0	72141	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		McLain,K
									<b>Distance Course Rates Apply</b>
5716 <b>Geotechnical Earthquake Engineering</b> Prerequisites: Civ Eng 3715 with a grade of "C" or better.	3.0- 3.0	73044	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Kottke,A
									<b>Distance Course Rates Apply</b>
6000 <b>Special Problems</b>	0.0- 6.0	72801	IND	6DIS	ARR	ARR	ARR		Showalter,W
									<b>Distance Course Rates Apply</b>
6099 <b>Research</b> Consent of instructor required.	0.0-15.0	72059	IND	6DIS	ARR	ARR	ARR		Chen,G
									<b>Distance Course Rates Apply</b>
6213 <b>Advanced Design in Steel and Lightweight Structures</b> Prerequisite: Preceded or accompanied by Civ Eng 5207.	3.0- 3.0	80961	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		LaBoube,R
									<b>Distance Course Rates Apply</b>

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6340 <b>Urban Hydrology</b> Prerequisite: Civ Eng 3333.	3.0- 3.0	72267	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Wilson,L
6442 <b>Construction Administration, Planning and Control</b> Prerequisite: Preceded or accompanied by Civ Eng 5445.	3.0- 3.0	72104	LEC	1DIS	M	04:00 - 06:30 pm	ARR		
6601 <b>Biological Principles In Environmental Engineering Systems</b> (Co-listed with Env En 6601)	3.0- 3.0		LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Oerther,D
			LEC	1DIS	ARR	ARR	ARR		
	3.0- 3.0	72568	LAB	3DIS	ARR	ARR	ARR		Oerther,D
6712 <b>Computer Modeling in Geotechnical Engineering</b> Prerequisite: Civ Eng 3715 and graduate standing.	3.0- 3.0	73112	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Deng,W

## Computer Engineering

5120 <b>Digital Computer Design</b> Prerequisites: COMP ENG 3150 and COMP ENG 3151.	3.0- 3.0	72079	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Hanna,W
5310 <b>Computational Intelligence</b> Prerequisite: Graduate Standing. (Co-listed with Elec Eng 5310 and Sys Eng 5211)	3.0- 3.0	72111	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Corns,S
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	72547	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Sedighsarvestani,S
5420 <b>Introduction to Network Security</b> Prerequisite: Comp Eng 5410 or Comp Sci 5600.	3.0- 3.0	72220	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Cetinkaya,E
5430 <b>Wireless Networks</b> 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
	3.0- 3.0	80997	LAB	3DIS	F	08:00 - 08:50 am	ARR		Zawodniok,M
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	73193	LEC	1DIS	ARR	ARR	ARR		Insall,E
									Course runs from October 16 through November 10. <b>See 'Notes' for Class Schedule</b> <b>Distance Course Rates Apply</b>
	3.0- 3.0	74054	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. <b>Distance Course Rates Apply</b>
6000 <b>Special Problems</b> Prerequisite: Consent of the instructor.	1.0- 6.0	71434	IND	6DIS	ARR	ARR	ARR		Sedighsarvestani,S
6001 <b>Special Topics</b>	3.0- 3.0	81185	LEC	1DIS	ARR	ARR	ARR		Corns,S
									Adv Computational Intelligence Prerequisite: A "C" or better grade in one of Sys Eng 5211, Elec Eng 5310, or Comp Eng 5310. (Co-listed with Elec Eng 6001 and Sys Eng 6001) <b>Distance Course Rates Apply</b>
6099 <b>Special Research and Thesis</b>	1.0-15.0	72490	IND	6DIS	ARR	ARR	ARR		Wunsch,D
6310 <b>Markov Decision Processes</b> 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	81130	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Gosavi,A

**Computer Science**

5001	<b>Special Topics</b>	3.0- 3.0	81164	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Morales,R
										Intro to Deep Learning Prerequisites: A grade of "C" or better in both Comp Sci 2500 and Math 3108. <b>Distance Course Rates Apply</b>
		3.0- 3.0	81166	LEC	1DIA	TTh	09:30 - 10:45 am	ARR		Yin,Z
										Intro Machine Learning Prerequisites: A grade of "C" or better in all of Comp Sci 2500, Math 3108, and one of Stat 3113, Stat 3115, Stat 3117 or Stat 5643. <b>Distance Course Rates Apply</b>
5099	<b>Research</b>	0.0-16.0	72024	IND	6DIS	ARR	ARR	ARR		Leopold,J
										Prerequisite: Consent of instructor. <b>Distance Course Rates Apply</b>
5200	<b>Analysis Of Algorithms</b>	3.0- 3.0	71630	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		
										Prerequisite: A "C" or better grade in Comp Sci 2500. <b>Distance Course Rates Apply</b>
5203	<b>Mathematical Logic I</b>	3.0- 3.0	73194	LEC	1DIS	ARR	ARR	ARR		Insall,E
										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.) <b>Distance Course Rates Apply</b>
5300	<b>Database Systems</b>	3.0- 3.0	72978	LEC	1DIS	TTh	03:30 - 04:45 pm	ARR		Hurson,A
										Prerequisite: A "C" or better grade in both Comp Sci 1200 and Comp Sci 2300. <b>Distance Course Rates Apply</b>
5401	<b>Evolutionary Computing</b>	3.0- 3.0	72515	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Tauritz,D
										Prerequisite: A "C" or better grade in both Comp Sci 2500 and in a Statistics course. <b>Distance Course Rates Apply</b>
5402	<b>Data Mining &amp; Machine Learning</b>	3.0- 3.0	72516	LEC	1DIS	<b>CANCELLED</b>				
										Prerequisites: A "C" or better in both Comp Sci 2300 and one of Stat 3111, Stat 3113, Stat 3115, Stat 3117.
6001	<b>Special Topics</b>	3.0- 3.0	80931	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		Das,S
										Applied Graph Theory Prerequisite: A "C" or better grade in Comp Sci 5200. <b>Distance Course Rates Apply</b>
6010	<b>Seminar</b>	3.0- 3.0	81135	LEC	1DIA	<b>CANCELLED</b>				
		1.0- 1.0	72056	RSD	2DIS	M	10:00 - 10:50 am	ARR		
										<b>Distance Course Rates Apply</b>
6202	<b>Markov Decision Processes</b>	3.0- 3.0	71764	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Gosavi,A
										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) <b>Distance Course Rates Apply</b>
6302	<b>Heterogeneous and Mobile Databases</b>	3.0- 3.0	80929	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Hurson,A
										Prerequisite: A "C" or better grade in Comp Sci 5300 <b>Distance Course Rates Apply</b>
6303	<b>Pervasive Computing</b>	3.0- 3.0	80930	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Lin,D
										Prerequisite: A "C" or better grade in either Comp Sci 4600 or Comp Eng 5410. <b>Distance Course Rates Apply</b>
6304	<b>Cloud Computing and Big Data Management</b>	3.0- 3.0	72513	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Madria,S
										Prerequisites: A grade of 'C' or better in both COMP SCI 5800 and either COMP SCI 5300 or COMP SCI 5402. <b>Distance Course Rates Apply</b>
6600	<b>Computer Security</b>	3.0- 3.0	72514	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		McMillin,B
										Prerequisite: A "C" or better grade in both Comp Sci 3600 and Comp Sci 5200. <b>Distance Course Rates Apply</b>
6601	<b>Privacy Preserving Data Integration and Analysis</b>	3.0- 3.0	80937	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Jiang,W
										Prerequisite: A "C" or better grade in both Comp Sci 5300 and Comp Sci 3600. <b>Distance Course Rates Apply</b>

**Economics**

4000	<b>Special Problems</b>	0.0- 6.0	72487	IND	6DIS	ARR	ARR	ARR	Gelles,G
<b>Distance Course Rates Apply</b>									

**Electrical Engineering**

2200	<b>Introduction to Electronic Devices</b> 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.	3.0- 3.0	73180	LEC	1DIS	MWF	10:00 - 10:50 am	ARR	Dua,R
<b>Distance Course Rates Apply</b>									
3100	<b>Electronics I</b> 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	72198	LEC	1DIS	MWF	09:00 - 09:50 am	ARR	Odun-Ayo,T
<b>Distance Course Rates Apply</b>									
3320	<b>Control Systems</b> Prerequisites: Elec Eng 2120 and Math 3304 each with a grade of "C" or better; passing the Elec Eng Advancement Exam II.	3.0- 3.0	72969	LEC	1DIS	<b>CANCELLED</b>			
3340	<b>Controllers For Factory Automation</b> Prerequisites: Elec Eng 2120 and Comp Eng 2210 each with a grade of "C" or better.	3.0- 3.0		LEC	1DIS	TTh	08:00 - 09:15 am	ARR	Erickson,K
<b>Distance Course Rates Apply</b>									
		3.0- 3.0	71936	LAB	3DIS	ARR	ARR	ARR	Erickson,K
<b>Distance Course Rates Apply</b>									
4000	<b>Special Problems</b>	0.0- 6.0	72182	IND	6DIS	ARR	ARR	ARR	Zheng,Y
<b>Distance Course Rates Apply</b>									
5099	<b>Special Research And Thesis</b> Prerequisite: Consent of instructor.	0.0-15.0	81158	IND	6DIS	ARR	ARR	ARR	Pommerenke,D
<b>Distance Course Rates Apply</b>									
5310	<b>Computational Intelligence</b> Prerequisite: Graduate Standing. (Co-listed with Comp Eng 5310 and Sys Eng 5211)	3.0- 3.0	72112	LEC	1DIS	W	04:00 - 06:30 pm	ARR	Corns,S
<b>Distance Course Rates Apply</b>									
5330	<b>Fuzzy Logic Control</b> Prerequisite: Elec Eng 3320.	3.0- 3.0	81027	LEC	1DIS	TTh	09:30 - 10:45 am	ARR	Acar,L
<b>Distance Course Rates Apply</b>									
5340	<b>Advanced PLC</b> Prerequisite: Elec Eng 3340.	3.0- 3.0		LEC	1DIS	MW	09:00 - 09:50 am	ARR	Erickson,K
<b>Distance Course Rates Apply</b>									
		3.0- 3.0	71977	LAB	3DIS	ARR	ARR	ARR	Erickson,K
<b>Distance Course Rates Apply</b>									
5380	<b>Autonomous Mobile Robots</b> Prerequisites: Elec Eng 3320 or equivalent and Stat 3117 or equivalent.	3.0- 3.0	72164	LEC	1DIS	Th	04:00 - 06:30 pm	ARR	Dierks,T
<b>Distance Course Rates Apply</b>									
5400	<b>Digital Signal Processing II</b> Prerequisites: Elec Eng 3410 or Elec Eng 3420.	3.0- 3.0	81028	LEC	1DIS	W	04:00 - 06:30 pm	ARR	Zheng,Y
<b>Distance Course Rates Apply</b>									
5430	<b>Wireless Networks</b> 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
<b>Distance Course Rates Apply</b>									
		3.0- 3.0	81000	LAB	3DIS	F	08:00 - 08:50 am	ARR	Zawodniok,M
<b>Distance Course Rates Apply</b>									
5520	<b>Power Electronics</b> Prerequisite: Elec Eng 3100.	3.0- 3.0	72082	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR	Ferdowski,M
<b>Distance Course Rates Apply</b>									
5540	<b>Power Systems Engineering</b> Prerequisite: Elec Eng 3540.	3.0- 3.0	72552	LEC	1DIS	M	04:00 - 06:30 pm	ARR	Crow,M
<b>Distance Course Rates Apply</b>									
5600	<b>Interference Control in Electronic Systems</b> Prerequisites: Elec Eng 3400 and 3600.	3.0- 3.0	81029	LEC	1DIS	MWF	08:00 - 08:50 am	ARR	Beetner,D
<b>Distance Course Rates Apply</b>									
6001	<b>Special Topics</b>	3.0- 3.0	81030	LEC	1DIS	TTh	08:00 - 09:15 am	ARR	Nauert,P
Power System Protection II Prerequisite: Elec Eng 6560 or equivalent, or consent of instructor.									
<b>Distance Course Rates Apply</b>									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	3.0-3.0	81187	LEC	1DIA	ARR	ARR	ARR		Corns,S
									Adv Computational Intelligence Prerequisite: A "C" or better grade in one of Sys Eng 5211, Elec Eng 5310, or Comp Eng 5310. (Co-listed with Comp Eng 6001 and Sys Eng 6001) <b>Distance Course Rates Apply</b>
6099 <b>Special Research And Thesis</b> Prerequisite: Consent of instructor.	0.0-15.0	72779	IND	6DIS	ARR	ARR	ARR		Kimball,J
6300 <b>Linear Control Systems</b> Prerequisite: Elec Eng 3320.	3.0-3.0	71461	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Acar,L
6500 <b>Advanced Theory Of Electric Machines</b> Prerequisite: Elec Eng 3500.	3.0-3.0	81162	LEC	1DIS	ARR	ARR	ARR		Shamsi,P
6525 <b>Power Converter Modeling and Design</b> Prerequisite: Elec Eng 5520.	3.0-3.0	81031	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Kimball,J
6530 <b>Power System Reliability</b> Prerequisite: Stat 5643 or Elec Eng 5420.	3.0-3.0	81032	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Nauert,P

## Engineering Management

5110 <b>Managerial Decision Making</b> Prerequisite: Senior or graduate standing.	3.0-3.0	71518	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Spurlock,D
5111 <b>Management for Engineers and Scientists</b> Prerequisite: Graduate standing.	3.0-3.0	71440	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Spurlock,D
5210 <b>Economic Decision Analysis</b> Prerequisite: Graduate students without previous course in engineering economy because of partial overlap.	3.0-3.0	71200	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Schuman,J
5212 <b>Intelligent Investing</b> Prerequisites: Senior or Graduate Standing.	3.0-3.0	73181	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Enke,D
5316 <b>Safety Engineering Management</b> Prerequisite: Senior or graduate standing.	3.0-3.0	71519	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Schmidt,M
5320 <b>Project Management</b> Prerequisite: Graduate Standing.	3.0-3.0	71201	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Berry,R
5330 <b>Advanced Human Factors</b> (Co-listed with PSYCH 5710)	3.0-3.0	71864	LEC	1DIB	<b>CANCELLED</b>				
5412 <b>Operations Management Science</b> Prerequisites: Graduate standing.	3.0-3.0	71296	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Konur,D
5511 <b>Technical Entrepreneurship</b> Prerequisite: Senior or graduate standing.	3.0-3.0	72051	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Bade,J
5514 <b>Patent Law</b> Prerequisite: Senior or graduate standing. (Co-listed with Chem Eng 4300)	3.0-3.0	71375	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Canis,R
5710 <b>Six Sigma</b> Prerequisite: Graduate standing.	3.0-3.0	71381	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Cudney,E
5711 <b>Total Quality Management</b> Prerequisite: Senior or graduate standing.	3.0-3.0	71520	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Bade,J
6099 <b>Research</b>	0.0-15.0	72467	IND	6DIS	ARR	ARR	ARR		Corns,S
	0.0-15.0	72468	IND	6DIA	ARR	ARR	ARR		Cudney,E
	0.0-15.0	72469	IND	6DIB	ARR	ARR	ARR		Dagli,C
	0.0-15.0	72470	IND	6DIC	ARR	ARR	ARR		Enke,D
	0.0-15.0	72651	IND	6DID	ARR	ARR	ARR		Gosavi,A
	0.0-15.0	72652	IND	6DIE	ARR	ARR	ARR		Grantham,K
	0.0-15.0	72653	IND	6DIF	ARR	ARR	ARR		Guardiola,I

		0.0-15.0	72654	IND	6DIG	ARR	ARR	ARR		Konur,D
				<b>Distance Course Rates Apply</b>						
		0.0-15.0	72655	IND	6DIH	ARR	ARR	ARR		Long,S
				<b>Distance Course Rates Apply</b>						
		0.0-15.0	72656	IND	6DIJ	ARR	ARR	ARR		Murray,S
				<b>Distance Course Rates Apply</b>						
		0.0-15.0	72657	IND	6DIK	ARR	ARR	ARR		Qin,R
				<b>Distance Course Rates Apply</b>						
		0.0-15.0	72658	IND	6DIL	ARR	ARR	ARR		Raper,S
				<b>Distance Course Rates Apply</b>						
6112	<b>Leadership for Engineers</b> Prerequisite: Eng Mgt 5110 or Psych 4602. (Co-listed with Psych 6611)	3.0- 3.0	71598	LEC	1DIS	ARR	ARR	ARR		Daughton,W
				<b>Distance Course Rates Apply</b>						
6211	<b>Advanced Financial Management</b> Prerequisite: Eng Mgt 1210 or 5210.	3.0- 3.0	71862	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Qin,R
				<b>Distance Course Rates Apply</b>						
6212	<b>Investment</b> Prerequisite: Eng Mgt 1210 or 308. (Co-listed with Sys Eng 6612)	3.0- 3.0	71203	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Qin,R
				<b>Distance Course Rates Apply</b>						
6213	<b>Financial Engineering</b> Prerequisites: Eng Mgt 1210 or 5210. (Co-listed with Sys Eng 6613)	3.0- 3.0	71865	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Enke,D
				<b>Distance Course Rates Apply</b>						
6322	<b>Case Studies in Project Management</b> Prerequisite: Eng Mgt 5320 or equivalent.	3.0- 3.0	71486	LEC	1DIS	W	07:00 - 09:30 pm	ARR		Hodges,S
				<b>Distance Course Rates Apply</b>						
6410	<b>Markov Decision Processes</b> 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	71715	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Gosavi,A
				<b>Distance Course Rates Apply</b>						
6611	<b>Lean Systems</b> Prerequisite: Graduate standing.	3.0- 3.0	71202	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Lin,H
				<b>Distance Course Rates Apply</b>						

## Enterprise Resource Planning

4220	<b>Introduction to Enterprise Decision Dashboard Prototyping</b> Prerequisites: (ERP 2110 or ERP 5110) and one of ERP 5410, ERP 6444, or IS&T 6444.	3.0- 3.0	73122	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Lea,B
				<b>Distance Course Rates Apply</b>						

## Enterprise Resource Planning

4610	<b>Customer Relationship Management in ERP Environment</b>	3.0- 3.0	81071	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Claybaugh,C
5110	<b>Enterprise Resource Planning Systems Design and Implementation</b> Prerequisites: Preceded or accompanied by ERP 2110; or Graduate Standing and computer programming knowledge.	3.0- 3.0	71264	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Claybaugh,C
				<b>Distance Course Rates Apply</b>						
5310	<b>Supply Chain Management Systems in an ERP Environment</b> Prerequisite: ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	71958	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Lea,B
				<b>Distance Course Rates Apply</b>						
5410	<b>Use of Business Intelligence</b> Prerequisites: IS&T 3423 or equivalent; ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	72099	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Yu,W
				<b>Distance Course Rates Apply</b>						
6220	<b>Data Modeling &amp; Visualization Prototyping for Enterprise Decision Dashboards</b> Prerequisites: ERP 5110 and one of ERP 5410, ERP 6444 or IS&T 6444.	3.0- 3.0	72884	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		Lea,B
				<b>Distance Course Rates Apply</b>						
6610	<b>Advanced Customer Relationship Management in ERP Environment</b>	3.0- 3.0	81072	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Claybaugh,C



## Environmental Engineering

5642	<b>Sustainability, Population, Energy, Water, and Materials</b> Prerequisite: Senior or graduate standing. (Co-listed with Civ Eng 5642 and Arch Eng 5642)	3.0- 3.0	72823	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Fitch,M
				<b>Distance Course Rates Apply</b>						
6601	<b>Biological Principles In Environmental Engineering Systems</b> (Co-listed with Civ Eng 6601)	3.0- 3.0		LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Oerther,D
				<b>Distance Course Rates Apply</b>						
		3.0- 3.0	72570	LEC	1DIS	ARR	ARR	ARR		
				<b>Distance Course Rates Apply</b>						
		3.0- 3.0	72570	LAB	3DIS	ARR	ARR	ARR		Oerther,D
				<b>Distance Course Rates Apply</b>						

## Explosives Engineering

5514	<b>Display Fireworks Manufacturing</b> Prerequisites: Chem 1310, Chem 1319, Chem 1100; one of Econ 1100, Econ 1200, Eng Mgt 1210; Successful background check.	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Hall,S
				<b>Distance Course Rates Apply</b>						
		3.0- 3.0	72261	LAB	3DIS	ARR	ARR	ARR		Hall,S
				<b>Distance Course Rates Apply</b>						
5612	<b>Principles Of Explosives Engineering</b> Prerequisites: Min Eng 2126; accompanied or preceded by Civ Eng 3715 or Geology 3310 or Geology 2611; Successful background check. (Co-listed with Min Eng 5612)	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Worsey,P
				<b>Distance Course Rates Apply</b>						
		3.0- 3.0	71816	LAB	3DIS	ARR	ARR	ARR		Worsey,P
				<b>Distance Course Rates Apply</b>						
5711	<b>Explosives in Industry</b>	3.0- 3.0	81110	LEC	1DIS	ARR	ARR	ARR		Perry,K
				<b>Distance Course Rates Apply</b>						
6080	<b>Industry Project</b> Prerequisite: 12 hours Exp Eng coursework.	3.0- 3.0	71933	LAB	3DIS	ARR	ARR	ARR		Worsey,P
				<b>Distance Course Rates Apply</b>						
		3.0- 3.0	72803	LAB	3DIB	ARR	ARR	ARR		Johnson,C
				<b>Distance Course Rates Apply</b>						
		3.0- 3.0	73259	LAB	3DIA	ARR	ARR	ARR		Lusk,B
				<b>Distance Course Rates Apply</b>						
6099	<b>Research</b> Prerequisites: Consent of instructor required.	0.0-15.0	72075	IND	6DIS	ARR	ARR	ARR		Johnson,C
				<b>Distance Course Rates Apply</b>						
		0.0-15.0	72076	IND	6DIA	ARR	ARR	ARR		Worsey,P
				<b>Distance Course Rates Apply</b>						
6112	<b>Explosives Regulations</b> Prerequisite: Graduate standing.	3.0- 3.0	72262	LEC	1DIS	ARR	ARR	ARR		Worsey,G
				<b>Distance Course Rates Apply</b>						
6312	<b>Scientific Instrumentation For Explosives Testing &amp; Blasting</b> Prerequisite: Exp Eng 5612 and Successful background check.	3.0- 3.0		LEC	1DIS	ARR	ARR	ARR		Johnson,C
				<b>Distance Course Rates Apply</b>						
		3.0- 3.0	80858	LAB	3DIS	ARR	ARR	ARR		Johnson,C
				<b>Distance Course Rates Apply</b>						
6464	<b>Advanced Blast Vibration Analysis and Prediction</b> Prerequisite: Exp Eng 5612.	3.0- 3.0	80856	LEC	1DIS	ARR	ARR	ARR		Lusk,B
				<b>Distance Course Rates Apply</b>						

## Finance

5160	<b>Corporate Finance II</b> Prerequisite: Finance 2150.	3.0- 3.0	81087	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		
				<b>Distance Course Rates Apply</b>						

## Geological Engineering

5099	<b>Research</b> Prerequisite: Consent of instructor required.	0.0-15.0	71823	IND	6DIS	ARR	ARR	ARR		Maerz,N
				<b>Distance Course Rates Apply</b>						
		0.0-15.0	71980	IND	6DIA	ARR	ARR	ARR		Rogers,J
				<b>Distance Course Rates Apply</b>						
5237	<b>Geological Aspects Of Hazardous Waste Management</b> Prerequisite: Geo Eng 3175.	3.0- 3.0	80861	LEC	1DIS	ARR	ARR	ARR		
				<b>Distance Course Rates Apply</b>						
5332	<b>Fundamentals of Groundwater Hydrology</b>	3.0- 3.0	72704	LEC	1DIS	ARR	ARR	ARR		Vandike,J
				<b>Distance Course Rates Apply</b>						
5441	<b>Engineering Geology And Geotechnics</b> Prerequisite: Geo Eng 3175.	3.0- 3.0	71484	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Rogers,J
				<b>Communication Emphasized</b>						
				<b>Distance Course Rates Apply</b>						
5471	<b>Rock Engineering</b> Prerequisite: Geo Eng 3175.	3.0- 3.0	71210	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Maerz,N Herries,B
				<b>Distance Course Rates Apply</b>						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5761 <b>Transportation Applications of Geophysics</b> Prerequisite: Junior level standing or higher. (Co-listed with Geophys 5761 and Civ Eng 5750)	3.0- 3.0		LEC	1DIS	MW	12:00 - 12:50 pm	ARR		Anderson,N
			<b>Distance Course Rates Apply</b>						
	3.0- 3.0	71563	LAB	3DIS	M	02:00 - 02:50 pm	ARR		Anderson,N
			<b>Distance Course Rates Apply</b>						
6000 <b>Special Problems</b> Prerequisite: Consent of instructor required.	0.0- 6.0	71581	IND	6DIS	ARR	ARR	ARR		Maerz,N
			<b>Distance Course Rates Apply</b>						
6099 <b>Research</b>	0.0-15.0	81073	IND	6DIS	ARR	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	72765	IND	6DIS	ARR	ARR	ARR		Maerz,N
			<b>Distance Course Rates Apply</b>						
6477 <b>Discontinuous Rock</b> Prerequisite: Min Eng 4823 or Geo Eng 5471.	3.0- 3.0	71873	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Maerz,N
			<b>Distance Course Rates Apply</b>						

## Info Science & Technology

3000 <b>Special Problems</b>	0.0- 6.0	71429	IND	6DIS	ARR	ARR	ARR		Yu,W
			<b>Distance Course Rates Apply</b>						
4261 <b>Information Systems Project Management</b> Prerequisites: IST 1552 or Comp Sci 1510; Senior Standing.	3.0- 3.0	72523	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Flachsbar,B
			<b>Distance Course Rates Apply</b>						
4641 <b>Electronic and Mobile Commerce</b> Prerequisites: IS&T 1750 and at least Sophomore standing.	3.0- 3.0	72149	LEC	1DIS	MWF	01:00 - 01:50 pm	ARR		Bates,C
			<b>Distance Course Rates Apply</b>						
4680 <b>Introduction to Web and New Media Studies</b> Prerequisite: Junior or Senior standing.	3.0- 3.0	72017	LEC	1DIS	ARR	ARR	ARR		Hall,R
			<b>Distance Course Rates Apply</b>						
5001 <b>Special Topics</b>	3.0- 3.0	80908	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Canis,R
			Privacy & Info Security Law Prerequisite: Understanding of Management Information Systems.						
			<b>Distance Course Rates Apply</b>						
5251 <b>Technological Innovation Management and Leadership</b> Prerequisite: Senior or Graduate Standing.	3.0- 3.0	72045	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Nah,F
			<b>Distance Course Rates Apply</b>						
5885 <b>Human-Computer Interaction</b>	3.0- 3.0	71531	LEC	1DIS	MWF	02:00 - 02:50 pm	ARR		Bates,C
			<b>Distance Course Rates Apply</b>						
5886 <b>Prototyping Human-Computer Interactions</b> Prerequisite: Preceded or accompanied by IS&T 5885.	3.0- 3.0	71961	LEC	1DIS	TTh	09:30 - 10:45 am	ARR		Twyman,N
			<b>Distance Course Rates Apply</b>						
6261 <b>Advanced Information Systems Project Management</b> Prerequisites: IS&T MS Entrance requirements, with strong programming knowledge.	3.0- 3.0	72206	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Flachsbar,B
			<b>Distance Course Rates Apply</b>						
6443 <b>Information Retrieval and Analysis</b> Prerequisite: ERP 5410 or statistics knowledge.	3.0- 3.0	72101	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Yu,W
			<b>Distance Course Rates Apply</b>						
6450 <b>Information Visualization</b> Prerequisites: Statistics, Calculus, and Programming Knowledge.	3.0- 3.0	72682	LEC	1DIS	MWF	10:00 - 10:50 am	ARR		Hilgers,M
			<b>Distance Course Rates Apply</b>						
6641 <b>Advanced Electronic and Mobile Commerce</b> Prerequisites: Knowledge of management information systems.	3.0- 3.0	72150	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	72442	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Hall,R
			<b>Distance Course Rates Apply</b>						
6680 <b>Advanced Web and New Media Studies</b>	3.0- 3.0	72324	LEC	1DIS	ARR	ARR	ARR		Hall,R
			<b>Distance Course Rates Apply</b>						
6887 <b>Research Methods in Business and IS&amp;T</b> (Co-listed with BUS 6887)	3.0- 3.0	71906	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Nah,F
			<b>Distance Course Rates Apply</b>						

## Marketing

5310 **Digital Marketing and Promotions** 3.0- 3.0 72122 LEC 1DIS TTh 02:00 - 03:15 pm ARR Stanley,S  
 Prerequisites: At least Junior standing.  
**Distance Course Rates Apply**

## Mathematics

5154 **Mathematical Logic I** 3.0- 3.0 73192 LEC 1DIS ARR ARR ARR Insall,E  
 Prerequisite: Philos 3254 or Math 5105  
 or Comp Sci 2500 or Comp Eng 2210.  
 Course runs from October 16 through November 10.  
**See 'Notes' for Class Schedule**

(Co-listed with Comp Eng 5803, Comp Sci 5203 and Philos 4354) 3.0- 3.0 74051 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**

6001 **Special Topics** 3.0- 3.0 81144 LEC 1DIS MWF 10:00 - 10:50 am ARR He,X  
 Topics in PDE  
 Prerequisite: Math 5325 or Math 6375 or Math 5604  
 or Math 6602.  
**Distance Course Rates Apply**

6601 **Numerical Analysis** 3.0- 3.0 81143 LEC 1DIS MWF 01:00 - 01:50 pm ARR He,X  
 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.  
**Distance Course Rates Apply**

## Mechanical Engineering

5000 **Special Problems** 0.0- 6.0 71835 IND 6DIS ARR ARR ARR Liou,F  
**Distance Course Rates Apply**

5131 **Intermediate Thermofluid Mechanics** 3.0- 3.0 72092 LEC 1DIS MWF 03:00 - 03:50 pm ARR Homan,K  
 Prerequisite: Mech Eng 3131 or Aero Eng  
 3131. (Co-listed with Aero Eng 5131)  
**Distance Course Rates Apply**

5139 **Computational Fluid Dynamics** 3.0- 3.0 71645 LEC 1DIS MWF 01:00 - 01:50 pm ARR Isaac,K  
 Prerequisites: Comp Sci 1570 or 1970 or  
 1971; one course in fluid mechanics.  
 (Co-listed with Aero Eng 5139)  
**Distance Course Rates Apply**

5212 **Introduction to Finite Element Analysis** 3.0- 3.0 71756 LEC 1DIS TTh 11:00 - 12:15 pm ARR Chandrashekhara,K  
 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)  
**Distance Course Rates Apply**

5238 **Fatigue Analysis** 3.0- 3.0 71282 LEC 1DIS TTh 02:00 - 03:15 pm ARR Dharani,L  
 Prerequisite: Civ Eng 2210. (Co-listed  
 with Aero Eng 5238)  
**Distance Course Rates Apply**

5449 **Robotic Manipulators and Mechanisms** 3.0- 3.0 LEC 1DIS MW 08:00 - 08:50 am ARR Bristow,D  
 Prerequisites: Mech Eng 3313; Comp Sci  
 1970 or Comp Sci 1971 or Comp Sci 1972  
 or Comp Sci 1570. (Co-listed with Aero  
 Eng 5449) 3.0- 3.0 80972 LAB 3DIS F 08:00 - 08:50 am ARR Bristow,D  
**Distance Course Rates Apply**

5481 **Mechanical And Aerospace Control Systems** 3.0- 3.0 71206 LEC 1DIS MWF 09:00 - 09:50 am ARR Balakrishnan,S  
 Prerequisite: Mech Eng 4479 or Aero Eng  
 3361. (Co-listed with Aero Eng 5481)  
**Distance Course Rates Apply**

5527 **Combustion Processes** 3.0- 3.0 72859 LEC 1DIS TTh 09:30 - 10:45 am ARR Koylu,U  
 Prerequisite: Mech Eng 3521. (Co-listed  
 with Aero Eng 5527)  
**Distance Course Rates Apply**

5571 **Environmental Controls** 3.0- 3.0 71627 LEC 1DIS M 07:00 - 09:30 pm ARR Williams JR,G  
 Prerequisites: Mech Eng 3521 and  
 accompanied or preceded by Mech Eng  
 3525; or Mech Eng 2527 and Civ Eng 3330.  
 (Co-listed with Arch Eng 5872)  
**Distance Course Rates Apply**

5708 **Rapid Product Design And Optimization** 3.0- 3.0 71204 LEC 1DIS TTh 09:30 - 10:45 am ARR Liou,F  
 Prerequisite: Mech Eng 3708.  
**Distance Course Rates Apply**

5715 **Concurrent Engineering** 3.0- 3.0 71205 LEC 1DIS Th 07:00 - 09:30 pm ARR Appelman,H  
 Prerequisites: Mech Eng 3313 or Aero Eng  
 3131, and Civ Eng 2210. (Co-listed with  
 Aero Eng 5715)  
**Distance Course Rates Apply**

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5763 <b>Principles And Practice Of Computer Aided Design</b>	3.0- 3.0		LEC	1DIS	MW	11:00 - 11:50 am	ARR		Leu,M
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	71209	LAB	3DIS	M	01:00 - 01:50 pm	ARR		Leu,M
6000 <b>Special Problems</b>	0.0- 6.0	72816	IND	6DIS	ARR	ARR	ARR		Dharani,L
6001 <b>Special Topics</b>	3.0- 3.0	81136	LEC	1DIS	MWF	12:00 - 12:50 pm	ARR		Homan,K
Adv Comp Thermofluid									
Prerequisites: Mech Eng 5131 or Aero Eng 5131; Mech Eng 5139 or Aero Eng 5139. (Co-listed with Aero Eng 6001)									
	3.0- 3.0	81141	LEC	1DIA	TTh	08:00 - 09:15 am	ARR		Rovey,J
Electric Space Propul									
Prerequisites: One of: Aero Eng 5131, Mech Eng 5131, Aero Eng 5535, Mech Eng 5535, Aero Eng 5570, Mech Eng 5570, Nuc Eng 5570, Phys 5570, Aero Eng 6137, Mech Eng 6137. (Co-listed with Aero Eng 6001)									
6099 <b>Research</b>	0.0-15.0	71415	IND	6DIS	ARR	ARR	ARR		Birman,V
	0.0-15.0	71809	IND	6DIA	ARR	ARR	ARR		Dharani,L
	0.0-15.0	71940	IND	6DIB	ARR	ARR	ARR		Krishnamurthy,K
	0.0-15.0	72180	IND	6DIC	ARR	ARR	ARR		Landers,R
	0.0-15.0	72184	IND	6DID	ARR	ARR	ARR		Leu,M
	0.0-15.0	72824	IND	6DIF	ARR	ARR	ARR		Okafor,A
	0.0-15.0	73266	IND	6DIG	ARR	ARR	ARR		Wojnar,C
	0.0-15.0	73277	IND	6DIH	ARR	ARR	ARR		Kinzel,E
6236 <b>Advanced Fracture Mechanics</b>	3.0- 3.0	73059	LEC	1DIS	TTh	11:00 - 12:15 pm	ARR		Dharani,L
Prerequisite: Aero Eng 5236 or Mech Eng 5236.									
6284 <b>Analysis of Laminated Composite Structures</b>	3.0- 3.0	71379	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Birman,V
Prerequisite: Mech Eng 5282 or Aero Eng 5282. (Co-listed with Aero Eng 6284)									
6447 <b>Markov Decision Processes</b>	3.0- 3.0	71762	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Gosavi,A
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)									
6481 <b>Advanced Topics in Decision and Control</b>	3.0- 3.0	81051	LEC	1DIS	MWF	11:00 - 11:50 am	ARR		Balakrishnan,S
6704 <b>Mechanics of Machinery</b>	3.0- 3.0	72534	LEC	1DIS	MWF	12:00 - 12:50 pm	ARR		Midha,A
Prerequisites: Vector & matrix analysis; introductory planar kinematic & dynamic analysis of mechanisms; MECH ENG 5704 or equivalent.									

## Mining Engineering

4000 <b>Special Problems</b>	0.0- 6.0	71907	IND	6DIA	ARR	ARR	ARR		Weiss,D
4122 <b>Advanced Mine Health and Safety</b>	3.0- 3.0	73139	LEC	1DIS	TTh	08:00 - 09:15 am	ARR		Weiss,D
Prerequisite: Min Eng 2126.									
4322 <b>Coal Mine Development And Production</b>	3.0- 3.0	73128	LEC	1DIS	ARR	ARR	ARR		
Prerequisite: Accompanied or preceded by Min Eng 4912.									
4424 <b>Mineral Processing II (Mechanics and Design)</b>	3.0- 3.0	72437	LEC	1DIS	ARR	ARR	ARR		



CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5700 <b>Job Analysis and Performance Management</b> Prerequisite: Psych 4700 or graduate standing.	3.0- 3.0	73013	LEC	1DIS	Th	04:00 - 06:30 pm	ARR		Kueny,C
									<b>Distance Course Rates Apply</b>
5710 <b>Advanced Human Factors</b> (Co-listed with Eng Mgt 5330)	3.0- 3.0	73157	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Baker,D
									<b>Distance Course Rates Apply</b>
6611 <b>Leadership for Engineers</b> Prerequisite: Eng Mgt 5110 or Psych 4602. (Co-listed with Eng Mgt 6112)	3.0- 3.0	72009	LEC	1DIS	ARR	ARR	ARR		Daughton,W
									<b>Distance Course Rates Apply</b>
6702 <b>Personnel Selection</b> Prerequisite: Psych 5700.	3.0- 3.0	73012	LEC	1DIS	T	04:00 - 06:30 pm	ARR		Stone,N
									<b>Distance Course Rates Apply</b>

## Statistics

5353 <b>Statistical Data Analysis</b> Prerequisites: Math 2222 and one of Stat 1115, 3113, 3115 and 3117.	3.0- 3.0	71568	LEC	1DIS	TTh	12:30 - 01:45 pm	ARR		Samaranayake,V
									<b>Distance Course Rates Apply</b>
5643 <b>Probability And Statistics</b> Prerequisite: Math 2222.	3.0- 3.0	81142	LEC	1DIS	TTh	02:00 - 03:15 pm	ARR		Adekpedjou,A
									<b>Distance Course Rates Apply</b>

## Systems Engineering

5000 <b>Special Problems</b>	1.0- 6.0	72189	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	71261	LEC	1DIS	T	04:00 - 06:30 pm	ARR		
									<b>Distance Course Rates Apply</b>
5211 <b>Computational Intelligence</b> Prerequisite: Graduate Standing. (Co-listed with Elec Eng 5310 and Comp Eng 5310)	3.0- 3.0	72113	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Corns,S
									<b>Distance Course Rates Apply</b>
5323 <b>Wireless Networks</b> 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		LEC	1DIS	MW	08:00 - 08:50 am	ARR		Zawodniok,M
									<b>Distance Course Rates Apply</b>
	3.0- 3.0	80998	LAB	3DIS	F	08:00 - 08:50 am	ARR		Zawodniok,M
									<b>Distance Course Rates Apply</b>
6001 <b>Special Topics</b>	3.0- 3.0	81183	LEC	1DIS	ARR	ARR	ARR		Corns,S
									Adv Computational Intelligence Prerequisite: A "C" or better grade in one of Sys Eng 5211, Elec Eng 5310, or Comp Eng 5310. (Co-listed with Comp Eng 6001 and Elec Eng 6001)
									<b>Distance Course Rates Apply</b>
6099 <b>Research</b> Prerequisite: Graduate standing.	1.0-15.0	72465	IND	6DIS	ARR	ARR	ARR		Corns,S
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72466	IND	6DIA	ARR	ARR	ARR		Cudney,E
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72659	IND	6DIB	ARR	ARR	ARR		Dagli,C
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72660	IND	6DIC	ARR	ARR	ARR		Enke,D
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72661	IND	6DID	ARR	ARR	ARR		Gosavi,A
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72662	IND	6DIE	ARR	ARR	ARR		Grantham,K
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72663	IND	6DIF	ARR	ARR	ARR		Guardiola,I
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72664	IND	6DIG	ARR	ARR	ARR		Konur,D
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72665	IND	6DIH	ARR	ARR	ARR		Long,S
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72666	IND	6DIJ	ARR	ARR	ARR		Murray,S
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72667	IND	6DIK	ARR	ARR	ARR		Qin,R
									<b>Distance Course Rates Apply</b>
	1.0-15.0	72668	IND	6DIL	ARR	ARR	ARR		Raper,S
									<b>Distance Course Rates Apply</b>
6102 <b>Information Based Design</b> Prerequisites: Graduate Standing.	3.0- 3.0	71623	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Guardiola,I
									<b>Distance Course Rates Apply</b>
6104 <b>Systems Architecting</b> Prerequisites: Graduate Standing.	3.0- 3.0	71311	LEC	1DIS	T	07:00 - 09:30 pm	ARR		Dagli,C
									<b>Distance Course Rates Apply</b>

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6105 <b>Complex Engineering Systems Project Management</b> Prerequisites: Graduate Standing.	3.0- 3.0	71413	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Hoffman,G
									<b>Distance Course Rates Apply</b>
6196 <b>Systems Engineering Capstone</b> Prerequisites: Sys Eng 6105.	3.0- 3.0	71411	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Pape II,L
									<b>Distance Course Rates Apply</b>
6239 <b>Smart Engineering System Design</b> Prerequisites: Graduate Standing.	3.0- 3.0	72535	LEC	1DIS	M	07:00 - 09:30 pm	ARR		Dagli,C
									<b>Distance Course Rates Apply</b>
6541 <b>Distributed Systems Modeling</b>	3.0- 3.0	72538	LEC	1DIS	Th	07:00 - 09:30 pm	ARR		Merz,C
									<b>Distance Course Rates Apply</b>
6612 <b>Investment</b> Prerequisite: Eng Mgt 1210 or 5210. (Co-listed with Eng Mgt 6212)	3.0- 3.0	72607	LEC	1DIS	W	04:00 - 06:30 pm	ARR		Qin,R
									<b>Distance Course Rates Apply</b>
6613 <b>Financial Engineering</b> Prerequisites: Eng Mgt 1210 or 5210. (Co-listed with Eng Mgt 6213)	3.0- 3.0	72608	LEC	1DIS	M	04:00 - 06:30 pm	ARR		Enke,D
									<b>Distance Course Rates Apply</b>

## Technical Communication

5610 <b>History of Technical Communication</b> Prerequisites: One semester of college composition or technical writing, or graduate standing.	3.0- 3.0	80900	LEC	1DIS	W	07:00 - 07:50 pm	ARR		Malone,E
									<b>Distance Course Rates Apply</b>
6450 <b>Advanced International Technical Communication</b> Prerequisite: Graduate Standing.	3.0- 3.0	80898	LEC	1DIS	T	07:00 - 07:50 pm	ARR		Malone,E
									<b>Distance Course Rates Apply</b>