

2018 SPRING SEMESTER MAIN MISSOURI S&T CAMPUS CLASS OFFERINGS

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR		
Aerosp Studies-Air Force ROTC											
1120	Foundations Of The U.S. Air Force II		1.0- 1.0	LEC	1A	W	10:00 - 10:50 am	HARR	00208	Ice,K	
	1.0- 1.0		LEC	1B	W	02:00 - 02:50 pm	HARR	00208	Ice,K		
	1.0- 1.0	70038	LAB	3A	Th	03:30 - 05:30 pm	BCH	00120	Logsdon,C		
	1.0- 1.0	70040	LAB	3B	Th	03:30 - 05:30 pm	BCH	00120	Logsdon,C		
2120	The Evolution Of USAF Air And Space Power II		1.0- 1.0	LEC	1A	W	11:00 - 11:50 am	HARR	00208	Unger,B	
	1.0- 1.0		LEC	1B	W	03:00 - 03:50 pm	HARR	00208	Unger,B		
	1.0- 1.0	70042	LAB	3A	Th	03:30 - 05:30 pm	BCH	00120	Logsdon,C		
	1.0- 1.0	71530	LAB	3B	Th	03:30 - 05:30 pm	BCH	00120	Logsdon,C		
3120	Air Force Leadership Studies II		3.0- 3.0	LEC	1A	T	03:00 - 05:30 pm	HARR	00208	Ice,K	
	3.0- 3.0	70044	LAB	3A	Th	03:30 - 05:30 pm	BCH	00120	Logsdon,C		
4120	National Security Affairs/Preparation For Active Duty II		3.0- 3.0	LEC	1A	T	05:30 - 08:00 pm	HARR	00208	Logsdon,C	
	3.0- 3.0	70046	LAB	3A	Th	03:30 - 05:30 pm	BCH	00120	Logsdon,C		
Aerospace Engineering											
2360	Dynamics		3.0- 3.0	71048	LEC	1A	MWF	09:00 - 09:50 am	TMH	00254	Sadeghizadeh,Z
	Prerequisite: Grade of "C" or better in each of Civ Eng 2200, Math 2222. (Co-listed with Mech Eng 2360)		3.0- 3.0	71049	LEC	1B	TTh	12:30 - 01:45 pm	BERTELS	00B10	Kumar,N
			3.0- 3.0	72382	LEC	1C	TTh	02:00 - 03:15 pm	TMH	00199	Kumar,N
2780	Introduction to Aerospace Design		2.0- 2.0		LEC	1A	F	08:00 - 08:50 am	EMGT	00103	Meeks,W
	Prerequisite: A grade of "C" or better in Aero Eng 2861.		2.0- 2.0	70001	LAB	3A	M	01:00 - 03:00 pm	ARR		Meeks,W
			2.0- 2.0	70002	LAB	3B	M	03:00 - 05:00 pm	ARR		Meeks,W
			2.0- 2.0	72727	LAB	3C	M	05:00 - 07:00 pm	ARR		Meeks,W
			2.0- 2.0	72728	LAB	3D	T	01:00 - 03:00 pm	ARR		Meeks,W
			2.0- 2.0	72729	LAB	3E	T	03:00 - 05:00 pm	ARR		Meeks,W
			2.0- 2.0	72730	LAB	3F	W	01:00 - 03:00 pm	ARR		Meeks,W
			2.0- 2.0	72731	LAB	3G	W	03:00 - 05:00 pm	ARR		Meeks,W
2790	Introduction to Spacecraft Design		2.0- 2.0		LEC	1A	M	12:00 - 12:50 pm	H-SS	000G5	Schmidt,J
	Prerequisite: A grade "C" or better in Aero Eng 2861.				Field Trip Required						
	2.0- 2.0	73516	LAB	3A	M		03:00 - 04:50 pm			Schmidt,J	
			Field Trip Required								
	2.0- 2.0	73517	LAB	3B	T		03:00 - 04:50 pm			Schmidt,J	
			Field Trip Required								
2861	Aerospace Vehicle Performance		3.0- 3.0	71377	LEC	1A	MWF	08:00 - 08:50 am	MCNT	00204	Riggins,D
	Prerequisite: A grade of "C" or better in each of the following: Math 1215 or Math 1221; Physics 1135 or Physics 1111.										
3002	Cooperative Engineering Training		0.0- 6.0	70003	IND	6A	ARR	ARR	ARR		Isaac,K
3171	Aerodynamics II		3.0- 3.0	70006	LEC	1A	TTh	02:00 - 03:15 pm	BERTELS	00112A	Hosder,S
	Prerequisite: "C" or better in Aero Eng 3131 and Mech Eng 2519.				LEC	1A	TTh	02:00 - 03:15 pm	BERTELS	00112B	
			3.0- 3.0	73602	LEC	1B	CANCELLED				
3251	Aerospace Structures I		3.0- 3.0	70004	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00204	Wojnar,C
	Prerequisites: A grade of "C" or better in each of the following: Math 1214 or Math 1208; Math 1215 or Math 1221; Math 2222; Physics 1135 or Physics 1111; Civ Eng 2210.										
3361	Flight Dynamics and Control		3.0- 3.0	70005	LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00112B	
	Prerequisites: Aero Eng 3613, Aero Eng 3131, and accompanied or preceded by Aero Eng 2780.				LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00112A	DeMars,K
4000	Special Problems		0.0- 6.0	70010	IND	6A	ARR	ARR	ARR		Pemicka,H
			0.0- 6.0	70011	IND	6B	ARR	ARR	ARR		Riggins,D
			0.0- 6.0	70012	IND	6C	ARR	ARR	ARR		
			0.0- 6.0	72416	IND	6D	ARR	ARR	ARR		Dharani,L
4099	Undergraduate Research		0.0- 6.0	70016	IND	6A	ARR	ARR	ARR		Balakrishnan,S
			0.0- 6.0	70017	IND	6B	ARR	ARR	ARR		Carroll,D
			0.0- 6.0	70018	IND	6C	ARR	ARR	ARR		DeMars,K
			0.0- 6.0	71370	IND	6D	ARR	ARR	ARR		Dharani,L

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	70019	IND	6E	ARR	ARR	ARR		Eversman,W
	0.0- 6.0	70020	IND	6F	ARR	ARR	ARR		Hosder,S
	0.0- 6.0	70021	IND	6G	ARR	ARR	ARR		Isaac,K
	0.0- 6.0	70022	IND	6H	ARR	ARR	ARR		Pernicka,H
	0.0- 6.0	71450	IND	6J	ARR	ARR	ARR		Riggins,D
4781 Aerospace Systems Design II Prerequisite: Aero Eng 4780.	3.0- 3.0	70007	LAB	3A	MWF	03:00 - 04:50 pm	TMH	00295	Meeks,W
4791 Spacecraft Design II Prerequisites: Aero Eng 4790 for Aero Eng majors; consent of instructor for non-Aero Eng majors.	3.0- 3.0	70015	LAB	3A	TTh	03:30 - 04:45 pm	TMH	00315	Pernicka,H
4882 Experimental Methods in Aerospace Engineering I Prerequisites: Aero Eng 3131 and Elec Eng 2800.	2.0- 2.0	70008	LAB	3A	T	08:00 - 08:50 am	TMH	00254	
			LAB	3A	M	10:30 - 12:00 pm	ARR		Vuruskan,A
	2.0- 2.0	70009	LAB	3B	T	08:00 - 08:50 am	TMH	00254	
			LAB	3B	M	01:00 - 02:30 pm	ARR		Vuruskan,A
	2.0- 2.0	71422	LAB	3C	T	08:00 - 08:50 am	TMH	00254	
			LAB	3C	M	02:30 - 04:00 pm	ARR		Vuruskan,A
	2.0- 2.0	71423	LAB	3D	T	08:00 - 08:50 am	TMH	00254	
			LAB	3D	T	03:30 - 05:00 pm	ARR		Vuruskan,A
	2.0- 2.0	72163	LAB	3E	T	08:00 - 08:50 am	TMH	00254	
			LAB	3E	W	10:30 - 12:00 pm	ARR		Vuruskan,A
	2.0- 2.0	72164	LAB	3F	T	08:00 - 08:50 am	TMH	00254	
			LAB	3F	W	01:00 - 02:30 pm	ARR		Vuruskan,A
	2.0- 2.0	72165	LAB	3G	T	08:00 - 08:50 am	TMH	00254	
			LAB	3G	W	02:30 - 04:00 pm	ARR		Vuruskan,A
	2.0- 2.0	72166	LAB	3H	T	08:00 - 08:50 am	TMH	00254	
			LAB	3H	Th	03:30 - 05:00 pm	ARR		Vuruskan,A
4885 Assessment Prerequisites: Aero Eng 3171, Aero Eng 3361, Aero Eng 4535, Aero Eng 4253.	1.0- 1.0	72520	LEC	1A	W	02:00 - 02:50 pm	BCH	00120	Isaac,K
5000 Special Problems	0.0- 6.0	71506	IND	6A	ARR	ARR	ARR		Isaac,K
5001 Special Topics Prerequisites: Math 2222, Phys 2135 or equivalent, and one from the following list: Mech Eng 3131, Aero Eng 3131, Chem Eng 3100, Chem 3410, Elec Eng 3600, Civ Eng 3330, Cer Eng 3410. (Co-listed with Mech Eng 5001)	3.0- 3.0	73350	LEC	1A	TTh	02:00 - 03:15 pm	MCNT	00245	Wang,C
									Intro to Microfluidics
5236 Fracture Mechanics Prerequisite: Civ Eng 2210. (Co-listed with Mech Eng 5236)	3.0- 3.0	70014	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00213	Dharani,L
5282 Introduction to Composite Materials & Structures Prerequisite: Civ Eng 2210. (Co-listed with Mech Eng 5282)	3.0- 3.0	71031	LEC	1A	TTh	09:30 - 10:45 am	BCH	00213	Chandrashekhara,K
5353 Aeroelasticity Prerequisites: Aero Eng 3251 and 3171.	3.0- 3.0	73319	LEC	1A	Th	04:00 - 06:30 pm	EECH	00239	Pitt,D
5519 Advanced Thermodynamics Prerequisite: Mech Eng 2519. (Co-listed with Mech Eng 5519)	3.0- 3.0	72945	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00254	Pan,H
5535 Aerospace Propulsion Systems Prerequisite: Aero Eng 4535.	3.0- 3.0	70013	LEC	1A	MWF	09:00 - 09:50 am	TMH	00249	Riggins,D
5614 Spaceflight Mechanics Prerequisite: Aero Eng 3613.	3.0- 3.0	73513	LEC	1A	TTh	12:30 - 01:45 pm	MCNT	00212	Pernicka,H
5760 Probabilistic Engineering Design Prerequisite: Mech Eng 3708 or Aero Eng 3361. (Co-listed with Mech Eng 5760)	3.0- 3.0	71332	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00249	Du,X
5830 Applied Computational Methods Prerequisite: Comp Sci 1570 or 1970 or 1981; Math 3304. (Co-listed with Mech Eng 5830)	3.0- 3.0	71756	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00121	Hosder,S Erb,A
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70036	IND	6A	ARR	ARR	ARR		

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6099 Research	0.0-15.0	70024	IND	6A	ARR	ARR	ARR		Balakrishnan,S
	0.0-15.0	70025	IND	6B	ARR	ARR	ARR		Birman,V
	0.0-15.0	71693	IND	6C	ARR	ARR	ARR		Chandrashekhara,K
	0.0-15.0	70026	IND	6D	ARR	ARR	ARR		DeMars,K
	0.0-15.0	70027	IND	6E	ARR	ARR	ARR		Dharani,L
	0.0-15.0	70028	IND	6F	ARR	ARR	ARR		Duan,L
	0.0-15.0	70029	IND	6G	ARR	ARR	ARR		Eversman,W
	0.0-15.0	70030	IND	6H	ARR	ARR	ARR		Hosder,S
	0.0-15.0	70031	IND	6J	ARR	ARR	ARR		Isaac,K
	0.0-15.0	70032	IND	6K	ARR	ARR	ARR		Krishnamurthy,K
	0.0-15.0	70033	IND	6L	ARR	ARR	ARR		Pernicka,H
	0.0-15.0	70034	IND	6M	ARR	ARR	ARR		Riggins,D
	0.0-15.0	73634	IND	6N	ARR	ARR	ARR		Han,D
6123 Viscous Fluid Flow Prerequisite: Mech Eng 5131 or Aero Eng 5131 or Mech Eng 5139 or Aero Eng 5139 or equivalent. (Co-listed with Mech Eng 6123)	3.0- 3.0	71897	LEC	1A	MWF	11:00 - 11:50 am	CS	00209	Isaac,K
6212 Advanced Finite Element Analysis Prerequisite: Mech Eng 5212 or Aero Eng 5212. (Co-listed with Mech Eng 6212)	3.0- 3.0	70023	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00260	Chandrashekhara,K
6307 Advanced Vibrations Prerequisite: Mech Eng or Aero Eng 5307. (Co-listed with Mech Eng 6307)	3.0- 3.0	73352	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00204	Stutts,D
6458 Adaptive Dynamic Programming Prerequisites: Elec Eng 5370 or Comp Eng 5310. (Co-listed with Comp Eng 6320, Elec Eng 6360, Mech Eng 6458 and Sys Eng 6215)	3.0- 3.0	72776	LEC	1A	CANCELLED				
6481 Advanced Topics in Decision and Control Prerequisites: Aero Eng 5481 or Mech Eng 5481 or equivalent. (Co-listed with Mech Eng 6481)	3.0- 3.0	73508	LEC	1A	TTh	09:30 - 10:45 am	TMH	00260	Balakrishnan,S
6527 Heat Transfer by Convection Prerequisite: Mech Eng 5525 or Aero Eng 5525. (Co-listed with Mech Eng 6527)	3.0- 3.0	71850	LEC	1A	MWF	09:00 - 09:50 am	LIB	000G14	Homan,K

Architectural Engineering

2003 Engineering Communications and Computations (Co-listed with Civ Eng 2003)	3.0- 3.0		LEC	1A	TTh	09:30 - 10:20 am	BCH	00120	Schonberg,W
			See 'Notes'-Additional Meeting						
	3.0- 3.0	70057	LAB	3A	Th	02:00 - 03:50 pm	BCH	00115	Schonberg,W
	3.0- 3.0	71159	LAB	3B	Th	04:00 - 05:50 pm	BCH	00115	Schonberg,W
2103 Architectural Materials And Methods Of Construction Prerequisites: Chem 1310, Chem 1319 and Sophomore standing.	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	BCH	00318	Gillis,W
	3.0- 3.0	71522	LAB	3A	T	06:00 - 08:00 pm	ARR		Gillis,W
	3.0- 3.0	71863	LAB	3B	W	06:00 - 08:00 pm	ARR		Gillis,W
3201 Structural Analysis I	3.0- 3.0		LEC	1A	TTh	09:30 - 10:20 am	BCH	00318	Alghazali,H
	3.0- 3.0		LEC	1B	TTh	09:30 - 10:20 am	BCH	00317	
	3.0- 3.0	70049	LAB	3A	Th	12:30 - 03:15 pm	BCH	00318	Alghazali,H
	3.0- 3.0	73556	LAB	3B	Th	12:30 - 03:15 pm	ARR		
3210 Structural Design in Metals Prerequisite: Arch Eng 3201 with grade of "C" or better. (Co-listed with Cv Eng 3210)	3.0- 3.0		LEC	1A	MW	12:00 - 12:50 pm	SHNK	00126	Yan,G
	3.0- 3.0	70051	LAB	3A	F	01:00 - 03:50 pm	SHNK	00126	Yan,G
3220 Reinforced Concrete Design Prerequisite: Arch Eng 3201 with grade of "C" or better. (Co-listed with Civ Eng 3220)	3.0- 3.0		LEC	1A	MW	10:00 - 10:50 am	BCH	00318	Wu,C
	3.0- 3.0	70053	LAB	3A	Th	05:00 - 06:50 pm	BCH	00318	Wu,C
3805 Building Lighting Systems Prerequisites: Arch Eng 3803 and Arch Eng 3804.	3.0- 3.0	70047	LEC	1A	MWF	09:00 - 09:50 am	BCH	00121	Baur,S
4097 Senior Design Project Prerequisite: Arch Eng 4448 or Civ Eng 4448. (Co-listed with Civ Eng 4097 and Env Eng 4097)	3.0- 3.0	71040	LEC	1A	M	01:00 - 03:50 pm	BCH	00120	Showalter,W
4099 Undergraduate Research	0.0- 6.0	70055	IND	6A	ARR	ARR	ARR		Baur,S

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4448 Fundamentals Of Contracts And Construction Engineering Prerequisite: Senior Standing. (Co-listed with Civ Eng 4448)	0.0- 6.0 3.0- 3.0	71338 70054	IND LEC	6B 1A	ARR TTh	ARR 08:00 - 09:15 am	ARR BCH	00120	Myers,J Showalter,W
5000 Special Problems	0.0- 6.0	71081	IND	6A	ARR	ARR	ARR		Baur,S
5203 Applied Mechanics In Structural Engineering Prerequisite: Civ Eng 3201 with grade of "C" or better. (Co-listed with Civ Eng 5203)	0.0- 6.0 3.0- 3.0	71337 73333	IND LEC	6B 1A	ARR TTh	ARR 12:30 - 01:45 pm	ARR TMH	00260	Myers,J Schonberg,W
5210 Advanced Steel Structures Design Prerequisite: Arch Eng 3210 with a grade of "C" or better. (Co-listed with Civ Eng 5210)	3.0- 3.0	73494	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00260	ElGawady,M
5220 Advanced Concrete Structures Design Prerequisite: Arch Eng 3220 with a grade of "C" or better. (Co-listed with Civ Eng 5220)	3.0- 3.0	73304	LEC	1A	TTh	08:00 - 09:15 am	BCH	00213	Sneed,L
5442 Construction Planning and Scheduling Strategies Prerequisite: Civ Eng or Arch Eng 4448. (Co-listed with Civ Eng 5442)	3.0- 3.0	71474	LEC	1A	M	04:00 - 06:30 pm	BCH	00110	Bodapati,S
5446 Management Of Construction Costs Prerequisite: Arch Eng 4448 with a grade of "C" or better. (Co-listed with Civ Eng 5446)	3.0- 3.0	73491	LEC	1A	MWF	10:00 - 10:50 am	BCH	00317	Showalter,W
5448 Green Engineering: Analysis of Constructed Facilities Prerequisites: Civ Eng 4448 or Arch Eng 4448; and Junior Standing. (Co-listed with Civ Eng 5448)	3.0- 3.0	71643	LEC	1A	MWF	09:00 - 09:50 am	TMH	00260	Scott-Showalter,P
5449 Engineering and Construction Contract Specifications Prerequisite: Arch Eng 4448 with a grade of "C" or better. (Co-listed with Civ Eng 5449)	3.0- 3.0	72001	LEC	1A	MWF	11:00 - 11:50 am	BCH	00213	Scott-Showalter,P
5872 Environmental Controls 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	72901	LEC	1A	MWF	08:00 - 08:50 am	BCH	00121	Gillis,W
6801 Advanced Concrete Science and Technology Prerequisites: Civ Eng 5113 or equivalent; or consent of the instructor with Graduate Standing. (Co-listed with Civ Eng 6801)	3.0- 3.0	73496	LEC	1A	TTh	04:00 - 06:30 pm	BCH	00101	Khayat,K

Art

1120 Drawing I	3.0- 3.0	70059	LEC	1A	T	04:00 - 06:45 pm	CH	00213	Arthur,S
1140 Painting I	3.0- 3.0	70061	LEC	1A	W	04:45 - 07:30 pm	CH	00213	Shoemaker,C
1164 Sculpture	3.0- 3.0	72279	LEC	1A	TTh	02:30 - 03:45 pm	CH	00213	Myers,L
1180 Art Appreciation	3.0- 3.0	70063	LEC	1A	MWF	11:00 - 11:50 am	NOR	00208	Arthur,S
	3.0- 3.0	70064	LEC	1B	TTh	09:30 - 10:45 am	NOR	00208	Arthur,S
	3.0- 3.0	71185	LEC	1C	MWF	03:00 - 03:50 pm	NOR	00208	Arthur,S
	3.0- 3.0	73577	LEC	1D	TTh	06:00 - 07:15 pm	H-SS	000G7	Martin,S
1185 Study Of Film	3.0- 3.0		LEC	1A	T	09:30 - 10:45 am	CASTL	00138	Tohline,A
	3.0- 3.0		LEC	1B	T	11:00 - 12:15 pm	CASTL	00138	Tohline,A
	3.0- 3.0	70065	LAB	3A	T	07:00 - 10:10 pm	CASTL	LEACH	Tohline,A
	3.0- 3.0	71877	LAB	3B	T	07:00 - 10:10 pm	CASTL	LEACH	Tohline,A
3001 Special Topics Prerequisite: Art 85.	3.0- 3.0	73356	LEC	1A	TTh	03:30 - 04:45 pm	H-SS	00204	Tohline,A

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3100 Advanced Art Studio Prerequisites: Art 1120, Art 1140, or Art 1164.	3.0- 3.0		LEC	1A	T	12:30 - 01:45 pm	CH	00213	Myers,L
	3.0- 3.0	73566	LAB	3A	Th	12:30 - 01:45 pm	CH	00213	Myers,L
3203 Architectural Design I Prerequisite: Sophomore standing.	3.0- 3.0		LEC	1A	T	02:00 - 02:50 pm	BCH	00120	Baur,S
	3.0- 3.0	71901	LAB	3A	MW	03:00 - 05:50 pm	BCH	0320	Baur,S
	3.0- 3.0	71902	LAB	3B	TTh	03:00 - 05:50 pm	BCH	0320	
3221 Fundamentals in Photography Prerequisite: Art 1180 or Art 1185 (required for Art minor credit) or Sp&M S 1185 or Sp&M S 2181 (required for Speech minor credit). (Co-listed with Sp&M S 3221)	3.0- 3.0	71462	LEC	1A	W	06:00 - 09:00 pm	CSF	00114	Rupert,B
	3.0- 3.0	72141	LEC	1B	Th	06:00 - 09:00 pm	CSF	00114	Rupert,B
	3.0- 3.0	73471	LEC	1C	T	04:00 - 07:00 pm	CSF	00114	Phelan,R
3260 Exploring Digital Art	3.0- 3.0		LEC	1A	W	04:00 - 05:30 pm	CS	00206	Myers,L
	3.0- 3.0	72431	LAB	3A	W	05:30 - 06:45 pm	CS	00206	Myers,L

Art

3500 **Innovation Through Design Thinking** 3.0- 3.0 73470 LAB 3A M 04:00 - 06:30 pm CH 00213 Myers,L

Art

4000 **Special Problems** 0.0- 6.0 70066 IND 6A ARR ARR ARR Myers,L
Prerequisite: Consent of instructor required.

Arts, Languages & Philosophy

4397 **Multidisciplinary Studies Capstone** 3.0- 3.0 72076 LEC 1A ARR ARR ARR Haynes,W
Prerequisite: Senior status.

Biological Sciences

1113 General Biology Prerequisite: Entrance requirements.	3.0- 3.0	70092	LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00112A	Sui,N
			LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00112B	
1163 Biotechnology in Film	3.0- 3.0	71470	LEC	1A	W	06:00 - 08:30 pm	BCH	00120	Hou,C
1173 Introduction to Environmental Sciences	3.0- 3.0	73210	LEC	1A	TTh	02:00 - 03:15 pm	IDE	00202	Niyogi,D
1213 Principles of Biology Prerequisite: Biological Science majors only.	3.0- 3.0	73595	LEC	1A	MWF	12:00 - 12:50 pm	CH	00103	Shannon,K
			Bio Sci Majors Only						
1219 General Biology Lab Prerequisite: Preceded or accompanied by either Bio Sci 1113 or Bio Sci 1213.	2.0- 2.0		LEC	1A	M	02:00 - 02:50 pm	SHNK	00111	Sui,N
	2.0- 2.0		LEC	1B	M	06:00 - 06:50 pm	SHNK	00111	Sui,N
	2.0- 2.0		LEC	1C	CANCELLED				
	2.0- 2.0	70094	LAB	3A	M	03:00 - 04:50 pm	SHNK	00111	Sui,N
	2.0- 2.0	71806	LAB	3B	M	07:00 - 08:50 pm	SHNK	00111	Sui,N
	2.0- 2.0	72162	LAB	3C	CANCELLED				
1223 Biodiversity	3.0- 3.0	72134	LEC	1A	TTh	11:00 - 12:15 pm	CH	00104	Wilson,T
1229 Biodiversity Lab Prerequisite: Preceded or accompanied by Biodiversity (Bio Sci 1223)	1.0- 1.0	71334	LAB	3A	T	02:00 - 04:50 pm	SHNK	00111	Wilson,T
	1.0- 1.0	73211	LAB	3B	T	06:00 - 08:50 pm	SHNK	00111	Wilson,T
	1.0- 1.0	71466	LAB	3C	W	02:00 - 04:50 pm	SHNK	00111	Wilson,T
2213 Cell Biology Prerequisites: Preceded or accompanied by CHEM 1320.	3.0- 3.0	71209	LEC	1A	MWF	11:00 - 11:50 am	CS	00207	Shannon,K
			Communication Emphasized						
2219 Cell Biology Laboratory Prerequisite: Preceded or accompanied by Bio Sci 2213.	1.0- 1.0	71807	LAB	3A	Th	02:00 - 03:50 pm	SHNK	00111	Wilson,T
			Bio Sci Majors Only						
	1.0- 1.0	71862	LAB	3B	Th	05:00 - 06:50 pm	SHNK	00111	Wilson,T
2223 General Genetics Prerequisite: Bio Sci 1113 or 1213.	3.0- 3.0	72449	LEC	1A	MWF	11:00 - 11:50 am	SHNK	00126	Frank,R
2233 Evolution	3.0- 3.0	73212	LEC	1A	MWF	10:00 - 10:50 am	BCH	00101	Duvernell,D
2243 Sleep: Function and Dysfunction Prerequisite: Bio Sci 1113 or Bio Sci 1213.	3.0- 3.0	72553	LEC	1A	MWF	12:00 - 12:50 pm	SHNK	00139	Thimgan,M
2263 Ecology	3.0- 3.0	73002	LEC	1A	TTh	12:30 - 01:45 pm	IDE	00202	Niyogi,D
2383 Plant Biology Prerequisite: Bio Sci 1113 or Bio Sci 1213.	3.0- 3.0	72450	LEC	1A	MWF	10:00 - 10:50 am	NOR	00208	Sui,N
3000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	71070	IND	6A	ARR	ARR	ARR		Duvernell,D
	0.0- 6.0	70096	IND	6B	ARR	ARR	ARR		Frank,R
	0.0- 6.0	71145	IND	6C	ARR	ARR	ARR		Hou,C
	0.0- 6.0	70097	IND	6D	ARR	ARR	ARR		Huang,Y
	0.0- 6.0	70098	IND	6E	ARR	ARR	ARR		Mormile,M

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	0.0- 6.0	70099	IND	6F	ARR	ARR	ARR		Niyogi,D	
	0.0- 6.0	70100	IND	6G	ARR	ARR	ARR		Semon,J	
	0.0- 6.0	70101	IND	6H	ARR	ARR	ARR		Shannon,K	
	0.0- 6.0	71724	IND	6J	ARR	ARR	ARR		Thimgan,M	
	0.0- 6.0	73413	IND	6K	ARR	ARR	ARR		Westenberg,D	
3001 Special Topics	3.0- 3.0	73542	LEC	1A	CANCELLED					
Prerequisites: BIO SCI 2213.	2.0- 2.0	73548	LEC	1B	ARR	ARR	ARR		Hou,C	
									Evolutionary Medicine	
3110 Introduction to Biomedical Engineering	3.0- 3.0	73055	LEC	1A	MWF	01:00 - 01:50 pm	EECH	00104	Miller,F	
Prerequisite: Junior standing or above. (Co-listed with Cer Eng 3110 and Chem Eng 3210)										
3313 Microbiology	3.0- 3.0	70095	LEC	1A	MWF	09:00 - 09:50 am	BCH	00315	Westenberg,D	
Prerequisite: Chem 1320.										
3319 Microbiology Lab	2.0- 2.0	71349	LAB	3A	TTh	11:00 - 01:00 pm	SHNK	000G7	Westenberg,D	
Prerequisite: Preceded or accompanied by Bio Sci 3313.	2.0- 2.0	71146	LAB	3B	TTh	02:00 - 03:50 pm	SHNK	000G7	Westenberg,D	
	2.0- 2.0	73575	LAB	3C	TTh	05:00 - 07:00 pm	SHNK	000G7	Westenberg,D	
3343 Human Anatomy and Physiology II	3.0- 3.0	71722	LEC	1A	MWF	09:00 - 09:50 am	CH	00104	Hou,C	
Prerequisites: BIO SCI 1113 or BIO SCI 1213; BIO SCI 2213.										
3349 Human Anatomy and Physiology II Laboratory	1.0- 1.0	71723	LAB	3A	T	02:00 - 04:50 pm	SHNK	00313	Havens,S	
Prerequisite: Preceded or accompanied by Bio Sci 3343.	1.0- 1.0	71783	LAB	3B	T	05:00 - 07:50 pm	SHNK	00313	Havens,S	
4001 Special Topics	3.0- 3.0	73257	LEC	1A	MWF	09:00 - 09:50 am	SHNK	00305	Mormile,M	
									Intro to Geomicrobiology	
4099 Undergraduate Research	1.0- 3.0	71136	IND	6A	ARR	ARR	ARR		Duvernell,D	
Prerequisite: Consent of instructor.	1.0- 3.0	71137	IND	6B	ARR	ARR	ARR		Frank,R	
	1.0- 3.0	71138	IND	6C	ARR	ARR	ARR		Hou,C	
	1.0- 3.0	71139	IND	6D	ARR	ARR	ARR		Huang, Y	
	1.0- 3.0	71140	IND	6E	ARR	ARR	ARR		Mormile,M	
	1.0- 3.0	71141	IND	6F	ARR	ARR	ARR		Niyogi,D	
	1.0- 3.0	71142	IND	6G	ARR	ARR	ARR		Semon,J	
	1.0- 3.0	71143	IND	6H	ARR	ARR	ARR		Shannon,K	
	1.0- 3.0	71725	IND	6J	ARR	ARR	ARR		Thimgan,M	
	1.0- 3.0	73414	IND	6K	ARR	ARR	ARR		Westenberg,D	
4383 Toxicology	3.0- 3.0	71982	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00295	Huang, Y	
Prerequisites: Bio Sci 2213, Bio Sci 2223, at least Junior standing.										
4666 Nanobiotechnology	3.0- 3.0	72912	LEC	1A	TTh	09:30 - 10:45 am	SHNK	00305	Huang, Y	
Prerequisite: Bio Sci 2213 or Bio Sci 2223.										
5000 Special Problems	0.0- 6.0	71128	IND	6A	ARR	ARR	ARR		Duvernell,D	
Prerequisite: Consent of the instructor.	0.0- 6.0	71129	IND	6B	ARR	ARR	ARR		Frank,R	
	0.0- 6.0	71130	IND	6C	ARR	ARR	ARR		Hou,C	
	0.0- 6.0	71131	IND	6D	ARR	ARR	ARR		Huang, Y	
	0.0- 6.0	71132	IND	6E	ARR	ARR	ARR		Mormile,M	
	0.0- 6.0	71133	IND	6F	ARR	ARR	ARR		Niyogi,D	
	0.0- 6.0	71134	IND	6G	ARR	ARR	ARR		Semon,J	
	0.0- 6.0	71135	IND	6H	ARR	ARR	ARR		Shannon,K	
	0.0- 6.0	71726	IND	6J	ARR	ARR	ARR		Thimgan,M	
	0.0- 6.0	73415	IND	6K	ARR	ARR	ARR		Westenberg,D	
5010 Graduate Seminar	0.0- 6.0	70102	RSD	2A	ARR	ARR	ARR		Semon,J	
5040 Oral Examination	0.0- 0.0	71357	IND	6A	ARR	ARR	ARR		Duvernell,D	
5099 Graduate Research	0.0-15.0	71071	IND	6A	ARR	ARR	ARR		Duvernell,D	
	0.0-15.0	71010	IND	6B	ARR	ARR	ARR		Frank,R	
	0.0-15.0	71144	IND	6C	ARR	ARR	ARR		Hou,C	
	0.0-15.0	71127	IND	6D	ARR	ARR	ARR		Huang, Y	
	0.0-15.0	70103	IND	6E	ARR	ARR	ARR		Mormile,M	
	0.0-15.0	70104	IND	6F	ARR	ARR	ARR		Niyogi,D	
	0.0-15.0	70105	IND	6G	ARR	ARR	ARR		Semon,J	
	0.0-15.0	70106	IND	6H	ARR	ARR	ARR		Shannon,K	
	0.0-15.0	71727	IND	6J	ARR	ARR	ARR		Thimgan,M	
	0.0-15.0	73416	IND	6K	ARR	ARR	ARR		Westenberg,D	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5240 Tissue Engineering I Prerequisite: Senior standing. (Co-listed with MS&E 5210)	3.0- 3.0	71983	LEC	1A	TTh	09:30 - 10:45 am	CH	00103	Semon,J
5323 Bioinformatics Prerequisites: A grade of "C" or better in both one of Bio Sci 1113 or Bio Sci 1213 and one of Comp Sci 1570 and Comp Sci 1580 or Comp Sci 1971 and Comp Sci 1981. (Co-listed with COMP SCI 5700)	3.0- 3.0	73525	LEC	1A	MWF	02:00 - 02:50 pm	CS	00205	Taylor,P
5333 Genomics Prerequisite: BIO SCI 4323.	3.0- 3.0	72716	LEC	1A	MWF	01:00 - 01:50 pm	CS	00206	Frank,R
5353 Developmental Biology Prerequisite: Bio Sci 2213.	3.0- 3.0	71879	LEC	1A	CANCELLED				
5433 Neurobiology Prerequisite: Bio Sci 2213.	3.0- 3.0	73213	LEC	1A	TTh	12:30 - 01:45 pm	SHNK	00305	Thimgan,M
6001 Special Topics Geomicrobiology Prerequisites: BIO SCI 221.	3.0- 3.0	73258	LEC	1A	MWF	09:00 - 09:50 am	SHNK	00305	Mormile,M
6202 Problems In Applied And Environmental Biology Prerequisite: Acceptance to Graduate Program.	0.0- 3.0	73417	LEC	1A	ARR	ARR	ARR		Thimgan,M
6223 Research Proposal Writing Prerequisites: Graduate standing.	3.0- 3.0	72398	LEC	1A	ARR	ARR	ARR		Shannon,K
6240 Tissue Engineering II Prerequisite: Graduate standing. (Co-listed with MS&E 6210)	3.0- 3.0	71986	LEC	1A	TTh	09:30 - 10:45 am	CH	00103	Semon,J
6273 Techniques In Applied And Environmental Biology Prerequisite: Graduate standing.	3.0- 3.0	71210	LEC	1A	ARR	ARR	ARR		Huang,Y
6383 Advanced Toxicology Prerequisites: Bio Sci 2213 and Bio Sci 2223.	3.0- 3.0	71984	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00295	Huang,Y
6666 Advanced Nanotechnology in Biomedicine Prerequisites: Bio Sci 2213 and Bio Sci 2223 and graduate standing.	3.0- 3.0	72913	LEC	1A	TTh	09:30 - 10:45 am	SHNK	00305	Huang,Y

Business

1110 Introduction to Management and Entrepreneurship	3.0- 3.0	70107	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00295	Elrod,C
1210 Financial Accounting	3.0- 3.0	71715	LEC	1B	MWF	03:00 - 03:50 pm	FUL	00227	Harvey,E
3220 Managerial Accounting Prerequisites: Bus 1210 or Eng Mgt 2211.	3.0- 3.0	71607	LEC	1A	MWF	11:00 - 11:50 am	BCH	00315	Chiu,Y
4000 Special Problems	3.0- 3.0	72425	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00216	Eng,L
4099 Undergraduate Research	0.0- 6.0	71464	IND	6A	ARR	ARR	ARR		Elrod,C
4675 International Business	0.0- 6.0	71092	IND	6A	ARR	ARR	ARR		Lea,B
5000 Special Problems Prerequisite: Admission to the MBA program.	0.0- 6.0	71487	IND	6B	ARR	ARR	ARR		Elrod,C
5099 Research Prerequisite: Permission of the instructor.	0.0- 6.0	71716	LEC	1A	MWF	01:00 - 01:50 pm	FUL	00107A	Stanley,S
5470 Human Resource Management Prerequisite: Bus 1110.	0.0- 6.0	71246	IND	6A	ARR	ARR	ARR		Elrod,C
5580 Strategic Management Prerequisites: MKT 3110 or Eng Mgt 3510; Finance 2150 or Eng Mgt 3200; Senior standing.	0.0- 6.0	71366	IND	6B	ARR	ARR	ARR		Lea,B
	0.0- 6.0	71745	IND	6C	ARR	ARR	ARR		Siau,K
	0.0- 6.0	72567	IND	6D	ARR	ARR	ARR		Siau,K
	0.0- 9.0	71583	IND	6A	ARR	ARR	ARR		Elrod,C
	0.0- 9.0	71592	IND	6B	ARR	ARR	ARR		Eng,L
	0.0- 9.0	71671	IND	6C	ARR	ARR	ARR		Siau,K
	3.0- 3.0	72313	LEC	1A	T	07:00 - 09:30 pm	BERTELS	00B12B	Tharp,J
	3.0- 3.0	70108	LEC	1A	W	07:00 - 09:30 pm	CS	00209	Fang,H

Business

5730	Machine Learning and Artificial Intelligence for Business Prerequisites: IS&T 1552 or Comp Sci 1510; or Graduate Standing, understanding of management information systems, programming knowledge.	3.0- 3.0	73584	LEC	1A	T	04:00 - 06:30 pm	FUL	00107A	Flachsbart,B
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Business

5980	Business Models for Entrepreneurship and Innovation Prerequisite: Senior or graduate standing.	3.0- 3.0	71990	LEC	1A	MWF	03:00 - 03:50 pm	FUL	00107A	Fang,H
6224	Managerial Accounting and Control Prerequisite: Graduate standing.	3.0- 3.0	71335	LEC	1A	M	04:00 - 06:30 pm	FUL	00107A	Eng,L
6425	Supply Chain and Project Management Prerequisite: Graduate standing.	3.0- 3.0	71336	LEC	1A	TTh	11:00 - 12:15 pm	FUL	00107A	Elrod,C
6675	Advanced International Business Prerequisites: MKT 3110 or MKT 5105 or Eng Mgt 3510.	3.0- 3.0	72310	LEC	1A	MWF	01:00 - 01:50 pm	FUL	00107A	Stanley,S
6723	Artificial Intelligence, Robotics, and Information Systems Management Prerequisite: Graduate standing.	3.0- 3.0	71608	LEC	1A	Th	07:00 - 09:30 pm	FUL	00107A	Siau,K

Ceramic Engineering

2002	Cooperative Training	1.0- 3.0	70110	IND	6A	ARR	ARR	ARR		Huebner,W
2120	Introduction To Glass Science And Technology Prerequisite: "C" or better grade in Cer Eng 2110.	3.0- 3.0	70109	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00211	Brow,R
2210	Ceramics In The Modern World	2.0- 2.0	71018	LEC	1A	F	01:00 - 02:40 pm	MCNT	00212	Hilmas,G
2240	Applied Glass Forming Prerequisites: A grade of "C" or better in either Cer Eng 2210 or Met Eng 1210. Freshman standing or sophomore standing only.	2.0- 2.0	71761	LAB	3A	M	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
		2.0- 2.0	72418	LAB	3B	M	04:00 - 06:00 pm	Glass Shop	000G3	Reidmeyer,M
		2.0- 2.0	72419	LAB	3C	T	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
		2.0- 2.0	72420	LAB	3D	T	04:00 - 06:00 pm	Glass Shop	000G3	Reidmeyer,M
		2.0- 2.0	72421	LAB	3E	W	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
		2.0- 2.0	72422	LAB	3F	W	04:00 - 06:00 pm	Glass Shop	000G3	Reidmeyer,M
2315	Ceramic Materials Laboratory I-Characterization Of Materials Prerequisite: Sophomore standing.	2.0- 2.0	72423	LAB	3A	M	01:00 - 01:50 pm	MCNT	00210	Reidmeyer,M
				LAB	3A	M	02:00 - 04:50 pm	MCNT	00253	
2325	Ceramic Materials Laboratory II Glass And Ceramic Processing Prerequisite: "C" or better grade in Cer Eng 2315.	2.0- 2.0	71019	LAB	3A	T	01:00 - 02:50 pm	MCNT	00210	Brow,R
		2.0- 2.0	72017	LAB	3B	W	01:00 - 02:50 pm	MCNT	00210	Brow,R
3110	Introduction to Biomedical Engineering Prerequisites: Junior standing or above.	3.0- 3.0	72534	LEC	1A	MWF	01:00 - 01:50 pm	EECH	00104	Miller,F
3230	Thermodynamics of Materials Prerequisite: "C" or better grade in either Met Eng 1210 or Chem 1320.	3.0- 3.0	70113	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00212	Kumar,A
3325	Ceramic Processing Lab II Prerequisite: "C" or better grade in Cer Eng 3315.	2.0- 2.0	70111	LAB	3A	T	01:00 - 01:50 pm	MCNT	00206	
				LAB	3A	T	02:00 - 03:50 pm	MCNT	00142	Lipke,D
		2.0- 2.0	70112	LAB	3B	T	01:00 - 01:50 pm	MCNT	00206	
				LAB	3B	W	02:00 - 03:50 pm	MCNT	00142	Lipke,D
		2.0- 2.0	73378	LAB	3C	T	01:00 - 01:50 pm	MCNT	00206	
				LAB	3C	Th	01:00 - 02:50 pm	MCNT	00142	Lipke,D
3410	Characterization Of Inorganic Solids Prerequisite: "C" or better grade in either Cer Eng 2110 or Met Eng 2110 or a similar introductory course on structure of solids	3.0- 3.0	71300	LEC	1A	MWF	12:00 - 12:50 pm	MCNT	00211	Miller,F
4000	Special Problems	0.0- 6.0	70115	IND	6A	ARR	ARR	ARR		Brow,R

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	70116	IND	6B	ARR	ARR	ARR		Day,D
	0.0- 6.0	70117	IND	6C	ARR	ARR	ARR		Dogan,F
	0.0- 6.0	70118	IND	6D	ARR	ARR	ARR		Fahrenholtz,W
	0.0- 6.0	70119	IND	6E	ARR	ARR	ARR		Hilmas,G
	0.0- 6.0	70120	IND	6F	ARR	ARR	ARR		Huebner,W
	0.0- 6.0	70121	IND	6G	ARR	ARR	ARR		
	0.0- 6.0	70122	IND	6H	ARR	ARR	ARR		Reidmeyer,M
	0.0- 6.0	71367	IND	6J	ARR	ARR	ARR		Smith,J
4097 Materials Senior Design II Prerequisite: "C" or better in either Cer Eng 4096 or Met Eng 4096. (Co-listed with Met Eng 4097)	3.0- 3.0	70114	LAB	3A	MWF	11:00 - 11:50 am	MCNT	00212	Schlesinger,M
									Additional meeting time to be arranged.
4099 Undergraduate Research	0.0- 6.0	70123	IND	6A	ARR	ARR	ARR		Brow,R
	0.0- 6.0	70124	IND	6B	ARR	ARR	ARR		Day,D
	0.0- 6.0	70125	IND	6C	ARR	ARR	ARR		Dogan,F
	0.0- 6.0	70126	IND	6D	ARR	ARR	ARR		Fahrenholtz,W
	0.0- 6.0	70127	IND	6E	ARR	ARR	ARR		Hilmas,G
	0.0- 6.0	70128	IND	6F	ARR	ARR	ARR		Huebner,W
	0.0- 6.0	70129	IND	6G	ARR	ARR	ARR		
	0.0- 6.0	70130	IND	6H	ARR	ARR	ARR		Smith,J
	0.0- 6.0	73134	IND	6J	ARR	ARR	ARR		Kumar,A
4220 Mechanical Properties Of Ceramics Prerequisite: A grade of "C" or better in Civ Eng 2210.	3.0- 3.0	71090	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00212	Hilmas,G
4240 Electrical Properties Of Ceramics Prerequisite: "C" or better in Physics 2305.	3.0- 3.0	71988	LEC	1A	MWF	09:00 - 09:50 am	CS	00207	Huebner,W
4410 Introduction to Integrated Computational Materials Engineering Prerequisites: A grade of "C" or better in both Cer Eng 3220 and Math 3304, and in either Cer Eng 2110 or Met Eng 2110.	3.0- 3.0		LEC	1A	T	08:00 - 09:15 am	MCNutt	234	Asle Zaeem,M
	3.0- 3.0	73374	LAB	3A	Th	08:00 - 09:15 am	MCNutt	234	Asle Zaeem,M
4510 International Engineering and Design Prerequisites: Senior standing, instructor approval, Geo Eng 5211, Geo Eng 5247. (Co-listed with Geo Eng 5092 and Met Eng 4510)	3.0- 3.0	73447	LEC	1A	ARR	ARR	ARR		Guggenberger,J
									Field Trip Required
5000 Special Problems	0.0- 6.0	70131	IND	6A	ARR	ARR	ARR		Brow,R
	0.0- 6.0	70132	IND	6B	ARR	ARR	ARR		Reidmeyer,M
	0.0- 6.0	71368	IND	6C	ARR	ARR	ARR		Smith,J
5040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70134	IND	6A	ARR	ARR	ARR		Moats,M
5250 Refractories Prerequisite: Cer Eng 3230.	3.0- 3.0	71762	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00210	Smith,J
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70135	IND	6A	ARR	ARR	ARR		Moats,M
6085 Internship DE students only.	0.0-15.0	70133	IND	6A	ARR	ARR	ARR		
6099 Research	0.0-15.0	72573	IND	6A	ARR	ARR	ARR		Bartlett,L
	0.0-15.0	72574	IND	6B	ARR	ARR	ARR		Brow,R
	0.0-15.0	72575	IND	6C	ARR	ARR	ARR		Dogan,F
	0.0-15.0	72576	IND	6D	ARR	ARR	ARR		Fahrenholtz,W
	0.0-15.0	72579	IND	6E	ARR	ARR	ARR		Hilmas,G
	0.0-15.0	72580	IND	6F	ARR	ARR	ARR		Huebner,W
	0.0-15.0	72581	IND	6G	ARR	ARR	ARR		Kumar,A
	0.0-15.0	72869	IND	6H	ARR	ARR	ARR		Lipke,D
	0.0-15.0	72870	IND	6J	ARR	ARR	ARR		Smith,J
	0.0-15.0	73371	IND	6K	ARR	ARR	ARR		Schwartz,R
6410 Advanced Integrated Computational Materials Engineering Prerequisite: A grade of "B" or better grade in Math 3304.	3.0- 3.0		LEC	1A	T	08:00 - 09:15 am	MCNutt	234	Asle Zaeem,M
	3.0- 3.0	73377	LAB	3A	Th	08:00 - 09:15 am	MCNutt	234	Asle Zaeem,M

Chemical Engineering

2100	Chemical Engineering Material & Energy Balances Prerequisites: Chem 1320 or Geology 3410; Math 1215 or Math 1221; preceded or accompanied by Physics 1135.	3.0- 3.0		LEC 1A MW LEC 1A MW		11:00 - 11:50 am 11:00 - 11:50 am	BERTELS BERTELS	00112A 00112B	Barua,S
		3.0- 3.0	70137	LAB 3A F LAB 3A F		11:00 - 11:50 am 11:00 - 11:50 am	BERTELS BERTELS	00112B 00112A	Barua,S
2110	Chemical Engineering Thermodynamics I Prerequisites: Preceded by Math 2222; Preceded or accompanied by Chem Eng 2100.	3.0- 3.0	72145	LEC 1A MWF LEC 1A MWF		08:00 - 08:50 am 08:00 - 08:50 am	BERTELS BERTELS	00112A 00112B	Barua,D
		3.0- 3.0	72840	LEC 1B MWF		08:00 - 08:50 am	BERTELS	00B10	Ludlow,D
2300	Chemical Process Materials Prerequisites: Physics 1135.	3.0- 3.0	71769	LEC 1A MWF		04:00 - 04:50 pm	TMH	00199	Liang,X
2310	Professional Practice And Ethics Prerequisite: At least sophomore standing.	1.0- 1.0	71214	LEC 1A W		04:00 - 04:50 pm	BERTELS	00B10	Neogi,P
3002	Cooperative Engineering Training	0.0- 6.0	70138	IND 6A ARR		ARR	ARR		Ludlow,D
3100	Chemical Engineering Fluid Flow Prerequisites: Chem Eng 2100 and Math 3304; Chem Eng majors only.	3.0- 3.0	71754	LEC 1A MWF		12:00 - 12:50 pm	BERTELS	00B12A	Neogi,P
				Chem Eng Majors Only					
3110	Chemical Engineering Heat Transfer Prerequisites: Math 2222 and preceded or accompanied by Chem Eng 3100. Chem Eng majors only.	2.0- 2.0	71755	LEC 1A TTh LEC 1A TTh		12:00 - 12:50 pm 12:00 - 12:50 pm	BERTELS BERTELS	00112A 00112B	Rezaei,F
				Chem Eng Majors Only					
3120	Chemical Engineering Thermodynamics II Prerequisites: Grade of "C" or better in Chem Eng 2100 and Chem Eng 2110; Chem Eng majors only.	3.0- 3.0	71350	LEC 1A MWF		03:00 - 03:50 pm	BERTELS	00B10	Park,J
				Chem Eng Majors Only					
3130	Staged Mass Transfer Prerequisites: Chem Eng 3120, admitted to Chem Eng program.	3.0- 3.0	70139	LEC 1A MWF		11:00 - 11:50 am	BERTELS	00B10	Luks,C
3140	Continuous Mass Transfer Prerequisites: Preceded or accompanied by Chem Eng 3130. Chem Eng majors only.	3.0- 3.0	70140	LEC 1A MWF		02:00 - 02:50 pm	TMH	00254	Neogi,P
				Chem Eng Majors Only					
3150	Chemical Engineering Reactor Design Prerequisites: Preceded or accompanied by either Chem Eng 3140 or Chem Eng 3200 or preceded by both Chem Eng 3111 and Chem Eng 3101. Admitted to Chem Eng program.	3.0- 3.0	71611	LEC 1A MWF		12:00 - 12:50 pm	BERTELS	00B12B	Liang,X
3160	Molecular Chemical Engineering Prerequisites: Chem Eng 3120, admitted to Chem Eng program.	3.0- 3.0	70141	LEC 1A MWF		10:00 - 10:50 am	EECH	00G31	Wang,J
3200	Biochemical Separations Prerequisites: Chem Eng 3120. Chem Eng majors only.	3.0- 3.0	70142	LEC 1A MWF		02:00 - 02:50 pm	Bert Conf	110H	Forciniti,D
				Chem Eng Majors Only					
3210	Introduction to Biomedical Engineering Prerequisite: Junior standing or above. (Co-listed with Cer Eng 3110 and Bio Sci 3110)	3.0- 3.0	73056	LEC 1A MWF		01:00 - 01:50 pm	EECH	00104	Miller,F
4000	Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	70144	IND 6A ARR		ARR	ARR		Al Dahhan,M
		0.0- 6.0	70145	IND 6B ARR		ARR	ARR		Barua,D
		0.0- 6.0	70146	IND 6C ARR		ARR	ARR		Barua,S
		0.0- 6.0	70147	IND 6D ARR		ARR	ARR		Forciniti,D
		0.0- 6.0	70148	IND 6E ARR		ARR	ARR		Liang,X
		0.0- 6.0	70149	IND 6F ARR		ARR	ARR		Ludlow,D
		0.0- 6.0	70150	IND 6G ARR		ARR	ARR		Luks,C
		0.0- 6.0	70151	IND 6H ARR		ARR	ARR		Neogi,P
		0.0- 6.0	71532	IND 6J ARR		ARR	ARR		Park,J
		0.0- 6.0	71735	IND 6K ARR		ARR	ARR		Rezaei,F
		0.0- 6.0	71833	IND 6L ARR		ARR	ARR		Rownaghi,A
		0.0- 6.0	71857	IND 6M ARR		ARR	ARR		Smith,J
		0.0- 6.0	71874	IND 6N ARR		ARR	ARR		Wang,J
		0.0- 6.0	72261	IND 6P ARR		ARR	ARR		Westenberg,D
4096	Chemical Engineering Economics Prerequisite: Preceded or accompanied by Chem Eng 3130.	2.0- 2.0	72035	LEC 1A TTh		12:00 - 12:50 pm	BERTELS	00B12B	Luks,C

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4097 Chemical Process Design II Prerequisites: Chem Eng 3130 and Chem Eng 3150; preceded or accompanied by either Chem Eng 4091 or both Chem Eng 4110 and Chem Eng 4096.	3.0- 3.0		LEC	1A	Th	00:00 - 00:00 am	ARR		Ryan,P
			Communication Emphasized						
	3.0- 3.0	71699	LAB	3A	MWF	02:00 - 03:50 pm	BERTELS	00112B	Ryan,P
			Communication Emphasized						
			LAB	3A	MWF	02:00 - 03:50 pm	BERTELS	00112A	
			Communication Emphasized						
4099 Undergraduate Research	0.0- 6.0	70154	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	70155	IND	6B	ARR	ARR	ARR		Barua,D
	0.0- 6.0	71096	IND	6C	ARR	ARR	ARR		Barua,S
	0.0- 6.0	71097	IND	6D	ARR	ARR	ARR		Forciniti,D
	0.0- 6.0	70156	IND	6E	ARR	ARR	ARR		Liang,X
	0.0- 6.0	70157	IND	6F	ARR	ARR	ARR		Ludlow,D
	0.0- 6.0	70158	IND	6G	ARR	ARR	ARR		Neogi,P
	0.0- 6.0	70159	IND	6H	ARR	ARR	ARR		Park,J
	0.0- 6.0	70160	IND	6J	ARR	ARR	ARR		Rezaei,F
	0.0- 6.0	70161	IND	6K	ARR	ARR	ARR		Rownaghi,A
	0.0- 6.0	71736	IND	6L	ARR	ARR	ARR		Ryan,P
	0.0- 6.0	71831	IND	6M	ARR	ARR	ARR		Smith,J
	0.0- 6.0	71858	IND	6N	ARR	ARR	ARR		Wang,J
	0.0- 6.0	72263	IND	6P	ARR	ARR	ARR		Westenberg,D
4100 Chemical Engineering Laboratory I Prerequisites: Chem Eng 3100 and Chem Eng 3110.	2.0- 2.0		LEC	1A	Th	01:00 - 01:50 pm	MCNutt	234	Rownaghi,A
			See 'Notes'-Additional Meeting						
	2.0- 2.0	71731	LAB	3A	T	09:00 - 11:50 am	Lab	00124	
			Available lab blocks are Monday, Wednesday, Friday 3:00pm-5:50pm. Students will use one lab block each week, but are advised to keep all block times open.						
			See 'Notes'-Additional Meeting						
	2.0- 2.0	72996	LAB	3B	T	02:00 - 04:50 pm	Ctl Lab	124	
	2.0- 2.0	72997	LAB	3C	Th	09:00 - 11:50 am	Lab	00124	
4110 Chemical Engineering Process Dynamics And Control Prerequisites: Preceded or accompanied by any one of Chem Eng 4100 or Chem Eng 4130 or Chem Eng 4200; or preceded by Chem Eng 3150, Chem Eng 3131 and Chem Eng 3141; or preceded by Chem Eng 3150 and preceded or accompanied by Chem Eng 5250.	3.0- 3.0	72271	LEC	1A	MWF	08:00 - 08:50 am	MCNT	00212	Ryan,P
4120 Process Dynamics And Control Laboratory Prerequisite: Preceded or accompanied by Chem Eng 4110.	1.0- 1.0	71734	LAB	3A	T	09:00 - 11:50 am	Lab	00124	Ryan,P
			Available lab blocks are 9:00-11:50 am and 2:00-4:50 pm each Tuesday and Thursday. Students will use one lab block each week, but are advised to keep all block times open.						
			See 'Notes'-Additional Meeting						
	1.0- 1.0	72999	LAB	3B	Th	09:00 - 11:50 am	Lab	00124	
4130 Chemical Engineering Laboratory II Prerequisites: Chem Eng 3130 and Chem Eng 3140; or Chem Eng 3141 and Chem Eng 3131 and preceded or accompanied by Chem Eng 3150.	3.0- 3.0		LEC	1A	T	01:00 - 01:50 pm	MCNutt	234	Rownaghi,A
			See 'Notes'-Additional Meeting						
			Communication Emphasized						
	3.0- 3.0	71733	LAB	3A	TTh	09:00 - 11:50 am	Lab	00124	Rownaghi,A
			Available lab blocks are 9:00-11:50 am and 2:00-4:50 pm each Tuesday and Thursday. Students will use two lab blocks each week, but are advised to keep all block times open.						
			See 'Notes'-Additional Meeting						
			Communication Emphasized						
	3.0- 3.0	73000	LAB	3B	TTh	02:00 - 04:50 pm	Lab	00124	Rownaghi,A
			Communication Emphasized						
4140 Chemical Process Safety Prerequisite: Preceded or accompanied by Chem Eng 3150.	3.0- 3.0	71297	LEC	1A	CANCELLED				
4210 Biochemical Reactors Prerequisite: Chem Eng 3150 or graduate standing.	3.0- 3.0	70152	LEC	1A	MWF	09:00 - 09:50 am	Bert Conf	110H	Forciniti,D

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4220 Biochemical Reactor Laboratory Prerequisites: Chem Eng 3200 and preceded or accompanied by Chem Eng 4210; or preceded or accompanied by Chem Eng 5250 and Chem Eng 4210.	3.0- 3.0		LEC	1A	ARR	ARR	ARR		Rownaghi,A
			Communication Emphasized						
	3.0- 3.0	70143	LAB	3A	TTh	02:00 - 04:50 pm	Lab	00124	
			Available lab blocks are 9:00-11:50 am and 2:00-4:50 pm each Tuesday and Thursday. Students will use three lab blocks each week, but are advised to keep all block times open.						
			See 'Notes'-Additional Meeting Communication Emphasized						
4241 Process Safety in the Chemical and Biochemical Industries Prerequisites: Preceded or accompanied by Chem Eng 4210.	3.0- 3.0	72698	LEC	1A	MWF	11:00 - 11:50 am	BERTELS	00B12A	Forciniti,D
			LEC	1A	ARR	ARR	ARR		
5000 Special Problems	0.0- 6.0	70162	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	71533	IND	6B	ARR	ARR	ARR		Barua,D
	0.0- 6.0	71534	IND	6C	ARR	ARR	ARR		Barua,S
	0.0- 6.0	71535	IND	6D	ARR	ARR	ARR		Forciniti,D
	0.0- 6.0	71536	IND	6E	ARR	ARR	ARR		Liang,X
	0.0- 6.0	71537	IND	6F	ARR	ARR	ARR		Ludlow,D
	0.0- 6.0	71538	IND	6G	ARR	ARR	ARR		Luks,C
	0.0- 6.0	71539	IND	6H	ARR	ARR	ARR		Neogi,P
	0.0- 6.0	71540	IND	6J	ARR	ARR	ARR		Park,J
	0.0- 6.0	71541	IND	6K	ARR	ARR	ARR		Rezaei,F
	0.0- 6.0	71737	IND	6L	ARR	ARR	ARR		Rownaghi,A
	0.0- 6.0	71859	IND	6M	ARR	ARR	ARR		Smith,J
	0.0- 6.0	71860	IND	6N	ARR	ARR	ARR		Wang,J
	0.0- 6.0	72266	IND	6P	ARR	ARR	ARR		Westenberg,D
5001 Special Topics Prerequisite: Graduate Standing.	3.0- 3.0		LEC	1A	MWF	12:00 - 12:50 pm	SHNK	00305	Smith,J
			Appl Numer Methods CFD						
	3.0- 3.0	73540	LEC	1B	MWF	04:00 - 04:50 pm	BERTELS	00112A	Barua,S
			Intro to Pharmaceutical Engine						
	3.0- 3.0	73256	LAB	3A	ARR	ARR	ARR		Smith,J
			Appl Numer Methods CFD						
5040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70173	IND	6A	ARR	ARR	ARR		
	0.0- 0.0	70174	IND	6B	ARR	ARR	ARR		
5110 Intermediate Chemical Reactor Design Prerequisite: Chem Eng 3150 or graduate standing.	3.0- 3.0	70153	LEC	1A	MTW	08:00 - 08:50 am	BERTELS	00B12B	Al Dahhan,M
5130 Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing. (Co-listed with Eng Mgt 4312)	3.0- 3.0	71652	LEC	1A	M	07:00 - 09:30 pm	CS	00209	Schmidt,M
5190 Plantwide Process Control Prerequisites: Chem Eng 4110 or Elec Eng 3320 or Elec Eng 3340 or graduate standing. (Co-listed with Elec Eng 5350)	3.0- 3.0	71966	LEC	1A	TTh	02:00 - 03:15 pm	EECH	00103	Erickson,K
5210 Intermediate Biochemical Reactors Prerequisite: Preceded or accompanied by Chem Eng 3150 or graduate standing.	3.0- 3.0	72394	LEC	1A	MWF	09:00 - 09:50 am	Bert Conf	110H	Forciniti,D
5220 Intermediate Engineering Thermodynamics Prerequisites: Senior or graduate standing.	3.0- 3.0	72992	LEC	1A	MW	09:00 - 09:50 am	BERTELS	00B12A	Luks,C
5241 Intermediate Process Safety in the Chemical and Biochemical Industries Prerequisites: Chem Eng 3150 or graduate standing.	3.0- 3.0	72699	LEC	1A	MWF	11:00 - 11:50 am	BERTELS	00B12A	Forciniti,D
			LEC	1A	ARR	ARR	ARR		
5315 Corrosion And Its Prevention Prerequisite: "C" or better grade in either Chem 3430 or Cer Eng 3230 . (Co-listed with Met Eng 4230)	3.0- 3.0	72028	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00210	Schlesinger,M
6001 Special Topics Prerequisites: Graduate Standing.	3.0- 3.0	73534	LEC	1A	MWF	04:00 - 04:50 pm	BERTELS	00112A	Barua,S
			Adv Pharmaceutical Engineering						
6015 Lecture Series Prerequisites: Graduate standing.	1.0- 1.0	72435	LEC	1A	M	04:00 - 04:50 pm	BERTELS	00B10	Barua,D

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6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70175	IND	6A	ARR	ARR	ARR		Neogi,P
6085 Internship DE students only.	0.0-15.0	70172	IND	6A	ARR	ARR	ARR		Al Dahhan,M
6099 Research	0.0-15.0	70164	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0-15.0	70165	IND	6B	ARR	ARR	ARR		Barua,D
	0.0-15.0	71098	IND	6C	ARR	ARR	ARR		Barua,S
	0.0-15.0	71099	IND	6D	ARR	ARR	ARR		Forciniti,D
	0.0-15.0	70166	IND	6E	ARR	ARR	ARR		Liang,X
	0.0-15.0	70167	IND	6F	ARR	ARR	ARR		Ludlow,D
	0.0-15.0	70168	IND	6G	ARR	ARR	ARR		Neogi,P
	0.0-15.0	70169	IND	6H	ARR	ARR	ARR		Park,J
	0.0-15.0	70170	IND	6J	ARR	ARR	ARR		Rezaei,F
	0.0-15.0	70171	IND	6K	ARR	ARR	ARR		Rownaghi,A
	0.0-15.0	71738	IND	6L	ARR	ARR	ARR		Smith,J
	0.0-15.0	71832	IND	6M	ARR	ARR	ARR		Wang,J
	0.0-15.0	71861	IND	6N	ARR	ARR	ARR		Westenberg,D
6110 Advanced Transport Phenomena Prerequisite: Chem Eng 5100.	3.0- 3.0	70163	LEC	1A	MWF	01:00 - 01:50 pm	BERTELS	00B12B	Park,J
6120 Applied Mathematics In Chemical Engineering	3.0- 3.0		LEC	1A	CANCELLED				
	3.0- 3.0	72842	LAB	3A	CANCELLED				

Chemistry

1100 Introduction To Laboratory Safety & Hazardous Materials Meets only first three weeks of semester.	1.0- 1.0	70186	LEC	1A	MTWThF	08:00 - 08:50 am	SHNK	000G3	Whitefield,P
	1.0- 1.0	72966	LEC	1B	MTWThF	08:00 - 08:50 am	SHNK	000G3	Whitefield,P
1310 General Chemistry I Prerequisite: Entrance requirements.	4.0- 4.0	70176	LEC	1AA	MW	10:00 - 10:50 am	SHNK	000G3	Winiarz,J
	4.0- 4.0	71887	LEC	1BB	MW	10:00 - 10:50 am	SHNK	000G3	Winiarz,J
	4.0- 4.0	72982	LEC	1CC	MW	10:00 - 10:50 am	ARR		Winiarz,J
	4.0- 4.0	72983	LEC	1DD	MW	10:00 - 10:50 am	ARR		Winiarz,J
	0.0- 0.0	70177	RSD	2A1	T	08:00 - 09:50 am	SHNK	00139	Winiarz,J
	0.0- 0.0	70178	RSD	2A2	T	09:00 - 10:50 am	SHNK	00126	Winiarz,J
	0.0- 0.0	70179	RSD	2A3	T	10:00 - 11:50 am	SHNK	00139	Winiarz,J
	0.0- 0.0	70180	RSD	2A4	T	11:00 - 12:50 pm	SHNK	00126	Winiarz,J
	0.0- 0.0	71508	RSD	2A5	T	12:00 - 01:50 pm	SHNK	00139	Winiarz,J
	0.0- 0.0	71509	RSD	2A6	T	01:00 - 02:50 pm	SHNK	00126	Winiarz,J
	0.0- 0.0	71510	RSD	2B1	ARR	ARR	ARR		Winiarz,J
1319 General Chemistry Laboratory Prerequisite: Preceded or accompanied by both Chem 1310 and Chem 1100.	1.0- 1.0	70181	LAB	3A1	T	01:00 - 03:50 pm	SHNK	00201	Woelk,K
	1.0- 1.0	71148	LAB	3B1	T	01:00 - 03:50 pm	SHNK	00201	Woelk,K
	1.0- 1.0	70182	LAB	3C1	W	01:00 - 03:50 pm	SHNK	00201	Woelk,K
	1.0- 1.0	72457	LAB	3D1	W	01:00 - 03:50 pm	SHNK	00201	Woelk,K
	1.0- 1.0	70183	LAB	3E1	Th	01:00 - 03:50 pm	SHNK	00201	Woelk,K
	1.0- 1.0	70184	LAB	3F1	Th	01:00 - 03:50 pm	SHNK	00201	Woelk,K
1320 General Chemistry II Prerequisites: Chem 1310 with a grade of "C" or better and Chem 1319.	3.0- 3.0	70185	LEC	1A	TTh	09:30 - 10:45 am	SHNK	000G3	Stavropoulos,P
1510 Qualitative Analysis Prerequisite: Preceded or accompanied by both Chem 1320 and Chem 1100.	2.0- 2.0	70187	LAB	3A	TTh	11:30 - 12:20 pm	SHNK	00305	Switzer,J
			LAB	3A	TTh	12:30 - 02:20 pm	SHNK	00212	
	2.0- 2.0	71247	LAB	3B	TTh	11:30 - 12:20 pm	SHNK	00305	Switzer,J
			LAB	3B	TTh	03:30 - 05:20 pm	SHNK	00212	
2002 Cooperative Work Training	1.0- 3.0	71849	IND	6A	ARR	ARR	ARR		Woelk,K
2100 Master Student	1.0- 1.0	70188	LEC	1A	W	06:00 - 07:00 pm	CH	00104	Collier,H
2210 Organic Chemistry I Prerequisites: Chem 1310, 1319, 1320; or Chem 1351.	4.0- 4.0	71429	LEC	1A	MTWF	01:00 - 01:50 pm	SHNK	000G3	Sotiriou-Leventis,C
2219 Organic Chemistry I Lab Prerequisites: Preceded or accompanied by Chem 2210 and Chem 1100.	1.0- 1.0	71889	LAB	3A	W	06:00 - 06:50 pm	SHNK	00140	Bone,T
			LAB	3A	W	07:00 - 08:50 pm	SHNK	00303	
	1.0- 1.0	71914	LAB	3B	Th	06:00 - 06:50 pm	SHNK	00139	Bone,T
			LAB	3B	Th	07:00 - 08:50 pm	SHNK	00303	
	1.0- 1.0	73424	LAB	3C	M	06:00 - 06:50 pm	SHNK	00139	Bone,T
			LAB	3C	M	07:00 - 08:50 pm	SHNK	00303	

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	1.0- 1.0	73425	LAB	3D	T	02:00 - 02:50 pm	SHNK	00139	Bone,T
			LAB	3D	T	03:00 - 04:50 pm	SHNK	00303	
	1.0- 1.0	73625	LAB	3E	F	02:00 - 02:50 pm	SHNK	00139	Bone,T
			LAB	3E	F	03:00 - 04:50 pm	SHNK	00303	
2220 Organic Chemistry II Prerequisites: Grade of "C" or better in Chem 2210.	4.0- 4.0	70189	LEC	1A	MTWF	01:00 - 01:50 pm	MCNT	00204	Reddy,V
2229 Organic Chemistry II Lab Prerequisites: Chem 2219 or Chem 2289, preceded or accompanied by both Chem 2220 and Chem 1100.	1.0- 1.0	70191	LAB	3A	W	02:00 - 02:50 pm	SHNK	00139	Bone,T
			LAB	3A	W	03:00 - 04:50 pm	SHNK	00303	
	1.0- 1.0	71179	LAB	3B	Th	02:00 - 02:50 pm	SHNK	00139	Bone,T
			Communication Emphasized						
			LAB	3B	Th	03:00 - 04:50 pm	SHNK	00303	
			Communication Emphasized						
2319 Inorganic Chemistry Laboratory Prerequisites: Preceded or accompanied by Chem 2310 and Chem 1100.	1.0- 1.0	71356	LAB	3C	CANCELLED				
	1.0- 1.0	70192	LAB	3A	M	01:00 - 01:50 pm	SHNK	00305	Nath,M
			LAB	3A	M	02:00 - 03:50 pm	SHNK	00224	
2320 Inorganic Chemistry II Prerequisites: CHEM 2310.	3.0- 3.0	72967	LEC	1A	MWF	10:00 - 10:50 am	CH	00103	Choudhury,A
2510 Analytical Chemistry I Prerequisites: Chem 1320 and preceded or accompanied by Chem 1100.	4.0- 4.0		LEC	1A	MWF	11:00 - 11:50 am	SHNK	00305	Nam,P
	4.0- 4.0	71289	LAB	3A	T	02:00 - 02:50 pm	SHNK	00305	Nam,P
			LAB	3A	T	03:00 - 04:50 pm	SHNK	00307	
	4.0- 4.0	71354	LAB	3B	Th	02:00 - 02:50 pm	SHNK	00305	Nam,P
			LAB	3B	Th	03:00 - 04:50 pm	SHNK	00307	
3410 Chemical Thermodynamics I Prerequisites: Physics 1111 or Physics 1135; accompanied or preceded by either Math 1215 or Math 1221.	3.0- 3.0	70193	LEC	1A	MWF	10:00 - 10:50 am	H-SS	000G5	Woelk,K
3419 Physical Chemistry Laboratory I Prerequisites: Preceded or accompanied by both Chem 3410 and Chem 1100.	1.0- 1.0	70194	LAB	3A	W	01:00 - 01:50 pm	SHNK	00305	Grubbs,G
			LAB	3A	W	02:00 - 03:50 pm	SHNK	00125	
3420 Introduction To Quantum Chemistry Prerequisites: Physics 2135 or Physics 2111; preceded or accompanied by Math 2222.	3.0- 3.0	72458	LEC	1A	MWF	08:00 - 08:50 am	SHNK	00305	Mochalin,V
3459 Accelerated Physical Chemistry Laboratory Prerequisites: Preceded or accompanied by both Chem 3420 and Chem 1100.	2.0- 2.0	72391	LAB	3A	W	01:00 - 01:50 pm	SHNK	00305	Grubbs,G
			LAB	3A	W	02:00 - 05:50 pm	SHNK	00125	
4000 Special Problems Prerequisite: Preceded or accompanied by Chem 1100 or an equivalent training program approved by S&T. Consent of instructor required.	0.0- 6.0	70195	IND	6A	ARR	ARR	ARR		Choudhury,A
	0.0- 6.0	70196	IND	6B	ARR	ARR	ARR		Dawes,R
	0.0- 6.0	70197	IND	6C	ARR	ARR	ARR		Ercal,N
	0.0- 6.0	70198	IND	6D	ARR	ARR	ARR		Kapila,S
	0.0- 6.0	70199	IND	6E	ARR	ARR	ARR		Leventis,N
	0.0- 6.0	70200	IND	6F	ARR	ARR	ARR		Ma,Y
	0.0- 6.0	71112	IND	6G	ARR	ARR	ARR		Nam,P
	0.0- 6.0	71431	IND	6H	ARR	ARR	ARR		Nath,M
	0.0- 6.0	70201	IND	6J	ARR	ARR	ARR		Reddy,V
	0.0- 6.0	70202	IND	6K	ARR	ARR	ARR		Schuman,T
	0.0- 6.0	70203	IND	6L	ARR	ARR	ARR		Sotiriou-Leventis,C
	0.0- 6.0	71621	IND	6M	ARR	ARR	ARR		Stavropoulos,P
	0.0- 6.0	71622	IND	6N	ARR	ARR	ARR		Switzer,J
	0.0- 6.0	71623	IND	6P	ARR	ARR	ARR		Van De Mark,M
	0.0- 6.0	71624	IND	6Q	ARR	ARR	ARR		Wang,R
	0.0- 6.0	71625	IND	6R	ARR	ARR	ARR		Whitefield,P
0.0- 6.0	71654	IND	6T	ARR	ARR	ARR		Winiarz,J	
0.0- 6.0	72102	IND	6U	ARR	ARR	ARR		Woelk,K	
4010 Undergraduate Seminar	1.0- 1.0	71050	RSD	2A	ARR	ARR	ARR		Choudhury,A
	1.0- 1.0	71051	RSD	2B	ARR	ARR	ARR		Dawes,R
	1.0- 1.0	71052	RSD	2C	ARR	ARR	ARR		Ercal,N
	1.0- 1.0	71053	RSD	2D	ARR	ARR	ARR		Grubbs,G
	1.0- 1.0	71054	RSD	2E	ARR	ARR	ARR		Kapila,S
	1.0- 1.0	71055	RSD	2F	ARR	ARR	ARR		Leventis,N
	1.0- 1.0	71402	RSD	2G	ARR	ARR	ARR		Long,G
	1.0- 1.0	71056	RSD	2H	ARR	ARR	ARR		Ma,Y
	1.0- 1.0	71057	RSD	2J	ARR	ARR	ARR		Mochalin,V

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	1.0- 1.0	71436	RSD	2K	ARR	ARR	ARR		Nam,P
	1.0- 1.0	71058	RSD	2L	ARR	ARR	ARR		Nath,M
	1.0- 1.0	71059	RSD	2M	ARR	ARR	ARR		Reddy,V
	1.0- 1.0	71060	RSD	2N	ARR	ARR	ARR		Schuman,T
	1.0- 1.0	71061	RSD	2P	ARR	ARR	ARR		Sotiriou-Leventis,C
	1.0- 1.0	71062	RSD	2Q	ARR	ARR	ARR		Stavropoulos,P
	1.0- 1.0	71063	RSD	2R	ARR	ARR	ARR		Switzer,J
	1.0- 1.0	71655	RSD	2T	ARR	ARR	ARR		Wang,R
	1.0- 1.0	71739	RSD	2U	ARR	ARR	ARR		Whitefield,P
	1.0- 1.0	72103	RSD	2V	ARR	ARR	ARR		Winiarz,J
	1.0- 1.0	72968	RSD	2W	ARR	ARR	ARR		Woelk,K
4099 Undergraduate Research	0.0- 6.0	70207	IND	6A	ARR	ARR	ARR		Choudhury,A
Prerequisite: Must meet departmental requirements for instruction in laboratory safety. Consent of instructor required.	0.0- 6.0	70208	IND	6B	ARR	ARR	ARR		Dawes,R
	0.0- 6.0	70209	IND	6C	ARR	ARR	ARR		Ercal,N
	0.0- 6.0	70210	IND	6D	ARR	ARR	ARR		Grubbs,G
	0.0- 6.0	70211	IND	6E	ARR	ARR	ARR		Kapila,S
	0.0- 6.0	70212	IND	6F	ARR	ARR	ARR		Leventis,N
	0.0- 6.0	70213	IND	6G	ARR	ARR	ARR		Ma,Y
	0.0- 6.0	70214	IND	6H	ARR	ARR	ARR		Mochalin,V
	0.0- 6.0	70215	IND	6J	ARR	ARR	ARR		Nam,P
	0.0- 6.0	71437	IND	6K	ARR	ARR	ARR		Nath,M
	0.0- 6.0	70216	IND	6L	ARR	ARR	ARR		Reddy,V
	0.0- 6.0	70217	IND	6M	ARR	ARR	ARR		Schuman,T
	0.0- 6.0	70218	IND	6N	ARR	ARR	ARR		Shi,H
	0.0- 6.0	70219	IND	6P	ARR	ARR	ARR		Sotiriou-Leventis,C
	0.0- 6.0	70220	IND	6Q	ARR	ARR	ARR		Stavropoulos,P
	0.0- 6.0	70221	IND	6R	ARR	ARR	ARR		Switzer,J
	0.0- 6.0	70222	IND	6T	ARR	ARR	ARR		Wang,R
	0.0- 6.0	70223	IND	6U	ARR	ARR	ARR		Whitefield,P
	0.0- 6.0	72048	IND	6V	ARR	ARR	ARR		Winiarz,J
	0.0- 6.0	72104	IND	6W	ARR	ARR	ARR		Woelk,K
	0.0- 6.0	72680	IND	6X	ARR	ARR	ARR		
4220 Intermediate Organic Chemistry II	3.0- 3.0	73426	LEC	1A	MWF	11:00 - 11:50 am	MCNT	00245	Leventis,N
Prerequisite: Chem 2220.									
4297 Organic Synthesis And Spectroscopic Analysis	3.0- 3.0		LEC	1A	T	08:00 - 08:50 am	SHNK	00305	Schuman,T
Prerequisites: Chem 1100, Chem 2220, Chem 2229.	3.0- 3.0	70205	LAB	3A	Th	08:00 - 11:50 am	SHNK	00303	Schuman,T
			LAB	3A	T	09:00 - 11:50 am	SHNK	00303	
4420 Chemical Kinetics II	3.0- 3.0	72396	LEC	1A	TTh	11:00 - 12:15 pm	NOR	00208	Dawes,R
Prerequisites: Chem 3420.									
4510 Instrumental Methods Of Chemical Analysis	4.0- 4.0		LEC	1A	TTh	06:00 - 07:15 pm	SHNK	00305	Kapila,S
Prerequisites: Chem 3510 and Chem 3430.	4.0- 4.0	71955	LAB	3A	T	02:00 - 04:50 pm	ARR		Kapila,S
4610 General Biochemistry	3.0- 3.0	72108	LEC	1A	TTh	11:00 - 12:15 pm	BERTELS	00B12A	Wang,R
Prerequisite: Chem 2220.									
4620 Metabolism	3.0- 3.0	70206	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00316	Ercal,N
Prerequisite: Chem 4610.									
4850 Fundamentals Of Protective Coating I	3.0- 3.0	73430	LEC	1A	MWF	12:00 - 12:50 pm	CH	00104	Schuman,T
Prerequisite: Chem 1320. (Co-listed with MS&E 4850)									
5100 Laboratory Safety & Hazardous Materials	1.0- 1.0	72392	LEC	1A	MTWThF	08:00 - 08:50 am	SHNK	000G3	Whitefield,P
Prerequisites: Graduate standing.									
5220 Synthetic Organic Chemistry	3.0- 3.0	73427	LEC	1A	MWF	11:00 - 11:50 am	MCNT	00245	Leventis,N
Prerequisite: Chem 2220.									
5420 Elemental Quantum Chemistry	3.0- 3.0	72459	LEC	1A	MWF	08:00 - 08:50 am	SHNK	00305	Mochalin,V
Prerequisites: Math 2222; Physics 2135 or Physics 2111.									
5430 Advanced Chemical Kinetics	3.0- 3.0	72397	LEC	1A	TTh	11:00 - 12:15 pm	NOR	00208	Dawes,R
Prerequisites: Chem 3430.									
5510 Introduction to Chemical Analysis	4.0- 4.0		LEC	1A	TTh	06:00 - 07:15 pm	SHNK	00305	Kapila,S
Prerequisites: Chem 1100, Chem 2510, Chem 2220, Chem 3430.	4.0- 4.0	72106	LAB	3A	T	02:00 - 04:50 pm	ARR		Kapila,S
5610 Biochemistry	3.0- 3.0	72109	LEC	1A	TTh	11:00 - 12:15 pm	BERTELS	00B12A	Wang,R
Prerequisite: Chem 2220.									
5620 Biochemical Metabolism	3.0- 3.0	72107	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00316	Ercal,N
Prerequisite: Chem 4610 or 5610.									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5850 Introduction to Coating Chemistry Prerequisite: Chem 1320. (Co-listed with MS&E 4850)	3.0- 3.0	73431	LEC	1A	MWF	12:00 - 12:50 pm	CH	00104	Schuman,T
6010 Seminar	1.0- 1.0	70224	RSD	2A	M	03:30 - 06:00 pm	SHNK	00126	Long,G
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70244	IND	6A	ARR	ARR	ARR		Whitefield,P
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70245	IND	6A	ARR	ARR	ARR		Whitefield,P
6099 Research Prerequisite: Must meet departmental requirements for instruction in laboratory safety. Consent of instructor required.	0.0-15.0	70225	IND	6A	ARR	ARR	ARR		Choudhury,A
	0.0-15.0	70226	IND	6B	ARR	ARR	ARR		Collier,H
	0.0-15.0	70227	IND	6C	ARR	ARR	ARR		Dawes,R
	0.0-15.0	70228	IND	6D	ARR	ARR	ARR		Ercal,N
	0.0-15.0	70229	IND	6E	ARR	ARR	ARR		Grubbs,G
	0.0-15.0	70230	IND	6F	ARR	ARR	ARR		Kapila,S
	0.0-15.0	70231	IND	6G	ARR	ARR	ARR		Leventis,N
	0.0-15.0	70232	IND	6H	ARR	ARR	ARR		Long,G
	0.0-15.0	70233	IND	6J	ARR	ARR	ARR		Ma,Y
	0.0-15.0	70234	IND	6K	ARR	ARR	ARR		Mochalin,V
	0.0-15.0	70235	IND	6L	ARR	ARR	ARR		Nam,P
	0.0-15.0	71438	IND	6M	ARR	ARR	ARR		Nath,M
	0.0-15.0	70236	IND	6N	ARR	ARR	ARR		Reddy,V
	0.0-15.0	70237	IND	6P	ARR	ARR	ARR		Schuman,T
	0.0-15.0	70238	IND	6Q	ARR	ARR	ARR		Shi,H
	0.0-15.0	70239	IND	6R	ARR	ARR	ARR		Sotiriou-Leventis,C
	0.0-15.0	70240	IND	6T	ARR	ARR	ARR		Stavropoulos,P
	0.0-15.0	70241	IND	6U	ARR	ARR	ARR		Switzer,J
	0.0-15.0	70242	IND	6V	ARR	ARR	ARR		Van De Mark,M
	0.0-15.0	70243	IND	6W	ARR	ARR	ARR		Wang,R
	0.0-15.0	71740	IND	6X	ARR	ARR	ARR		Whitefield,P
	0.0-15.0	71793	IND	6Y	ARR	ARR	ARR		Winiarz,J
	0.0-15.0	72049	IND	6Z	ARR	ARR	ARR		Woelk,K
	0.0-15.0	72110	IND	6AA	ARR	ARR	ARR		
6220 Advanced Synthetic Organic Chemistry Prerequisite: Chem 4210 or Chem 4220.	3.0- 3.0	73340	LEC	1A	TTh	11:00 - 12:15 pm	CH	00103	Sotiriou-Leventis,C
6330 Nanomaterials Synthesis, Properties and Applications Prerequisite: Chem 4310.	3.0- 3.0	72969	LEC	1A	TF	04:00 - 05:15 pm	SHNK	00305	Nath,M
6555 Principles And Applications Of Mass Spectrometry Prerequisite: Chem 4510 or equivalent.	3.0- 3.0	72460	LEC	1A	WF	06:00 - 07:15 pm	SHNK	00305	Kapila,S

Civil Engineering

2002 Cooperative Engineering Training	1.0- 3.0	70252	IND	6A	ARR	ARR	ARR		Burken,J
2003 Engineering Communications and Computations (Co-listed with Arch Eng 2003)	3.0- 3.0		LEC	1A	TTh	09:30 - 10:20 am	BCH	00120	Schonberg,W
			See 'Notes'-Additional Meeting						
	3.0- 3.0	70251	LAB	3A	Th	02:00 - 03:50 pm	BCH	00115	Schonberg,W
	3.0- 3.0	71160	LAB	3B	Th	04:00 - 05:50 pm	BCH	00115	Schonberg,W
2200 Statics Prerequisites: Physics 1135 or Physics 1111 with a grade of "C" or better; Math 1215 or Math 1221 with a grade of "C" or better; preceded or accompanied by Math 2222. Students in Civ Eng 2200 are scheduled for group exams from 5:00-6:00pm on Wednesdays, February 7th; March 7th; April 11th; and May 2nd.	3.0- 3.0	70075	LEC	1A	MWF	09:00 - 09:50 am	IDE	00105	Abbott,D
			See 'Notes' for Evening Exams						
	3.0- 3.0	70076	LEC	1B	MWF	10:00 - 10:50 am	IDE	00105	Abbott,D
			See 'Notes' for Evening Exams						
	3.0- 3.0	70077	LEC	1C	MWF	11:00 - 11:50 am	IDE	00105	Abbott,D
			See 'Notes' for Evening Exams						
	3.0- 3.0	70078	LEC	1D	TTh	09:30 - 10:45 am	H-SS	000G5	Koen,M
			See 'Notes' for Evening Exams						
	3.0- 3.0	70079	LEC	1E	TTh	11:00 - 12:15 pm	H-SS	000G5	Koen,M
			See 'Notes' for Evening Exams						
	3.0- 3.0	70080	LEC	1F	TTh	02:00 - 03:15 pm	H-SS	000G5	Koen,M
			See 'Notes' for Evening Exams						
			LEC	1F	ARR	ARR	ARR		
			See 'Notes' for Evening Exams						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2210 Mechanics Of Materials Prerequisite: Civ Eng 2200 with grade of "C" or better.	3.0- 3.0	70082	LEC	1A	MWF	10:00 - 10:50 am	BCH	00120	Libre,N
									Exams for Civ Eng 2210 1A will be given from 5:00 pm to 6:20 pm on Mondays: Feb. 6, Mar. 6, Apr. 3, and May 1.
									See 'Notes' for Evening Exams
	3.0- 3.0	70081	LEC	1B	MWF	11:00 - 11:50 am	BCH	00120	Libre,N
									Exams for Civ Eng 2210 1B will be given from 5:00 pm to 6:20 pm on Mondays: Feb. 5, Mar. 5, Apr. 2, and Apr. 30.
2211 Materials Testing Prerequisite: Preceded or accompanied by Civ Eng 2210.	1.0- 1.0	70083	LAB	3A	M	01:00 - 01:50 pm	IDE	000G4A	Libre,N
									000G6
	1.0- 1.0	70084	LAB	3B	M	03:00 - 03:50 pm	IDE	000G4A	Libre,N
									000G6
	1.0- 1.0	70085	LAB	3C	M	05:00 - 05:50 pm	IDE	000G4A	Libre,N
2401 Fundamentals Of Surveying Prerequisite: Preceded or accompanied by Math 1214 (or 1208).									000G6
	1.0- 1.0	70086	LAB	3D	T	01:00 - 01:50 pm	IDE	000G4A	Libre,N
									000G6
	1.0- 1.0	70087	LAB	3E	T	03:00 - 03:50 pm	IDE	000G4A	Libre,N
									000G6
	1.0- 1.0	72046	LAB	3F	T	05:00 - 05:50 pm	IDE	000G4A	Libre,N
									000G6
	1.0- 1.0	70088	LAB	3G	W	01:00 - 01:50 pm	IDE	000G4A	Libre,N
									000G6
	1.0- 1.0	70089	LAB	3H	W	03:00 - 03:50 pm	IDE	000G4A	Libre,N
									000G6
	1.0- 1.0	71342	LAB	3J	Th	01:00 - 01:50 pm	IDE	000G4A	Libre,N
									000G6
	1.0- 1.0	72047	LAB	3K	Th	03:00 - 03:50 pm	IDE	000G4A	Libre,N
								000G6	
2401 Fundamentals Of Surveying Prerequisite: Preceded or accompanied by Math 1214 (or 1208).	3.0- 3.0		LEC	1A	MW	08:00 - 08:50 am	BCH	00120	Elgin,R
	3.0- 3.0	70247	LAB	3A	M	01:00 - 03:50 pm	BCH	00215	Elgin,R
	3.0- 3.0	70248	LAB	3B	T	12:30 - 03:15 pm	BCH	00318	Elgin,R
	3.0- 3.0	70249	LAB	3C	W	01:00 - 03:50 pm	BCH	00318	Elgin,R
	3.0- 3.0	73624	LAB	3D	Th	12:30 - 03:15 pm	BCH	00314	Elgin,R
2601 Fundamentals Of Environmental Engineering And Science Prerequisites: Chem 1310, Chem 1301, or Chem 1351; Math 1214, Math 1212, or Math 1208. (Co-listed with Env Eng 2601)	3.0- 3.0		LEC	1A	MW	08:00 - 08:50 am	BCH	00209	Oerther,D
	3.0- 3.0		LEC	1B	MW	11:00 - 11:50 am	BCH	00124	Wang,J
	3.0- 3.0	70270	LAB	3A2	T	01:00 - 03:50 pm	BCH	00209	Oerther,D
	3.0- 3.0	73536	LAB	3A1	M	01:00 - 03:50 pm	BCH	00209	Oerther,D
	3.0- 3.0	71645	LAB	3B1	W	01:00 - 03:50 pm	BCH	00209	Wang,J
2602 Biological Fundamentals Of Environmental Engineering Prerequisites: Bio Sci 1113 and preceded or accompanied by Civ/Env Eng 2601. (Co-listed with Env Eng 2602)	3.0- 3.0	73537	LAB	3B2	Th	01:00 - 03:50 pm	BCH	00209	Wang,J
	3.0- 3.0	72127	LEC	1A	MWF	11:00 - 11:50 am	BCH	00216	Fitch,M
3116 Construction Materials, Properties And Testing Prerequisites: Civ Eng 2211 or Min Eng 3812; Civ Eng 3715 or both Geo Eng 1150 and Min Eng 3412.	3.0- 3.0	73020	LEC	1A	MWF	08:00 - 08:50 am	BCH	00110	Feys,D
									Class will meet 3 lecture periods per week when labs do not meet.
									See 'Notes'-Additional Meeting
	3.0- 3.0	73022	LEC	1B	MWF	10:00 - 10:50 am	BCH	00110	Ma,H
									Class will meet 3 lecture periods per week when labs do not meet.
									See 'Notes'-Additional Meeting

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3201 Structural Analysis I	0.0- 0.0	73021	LAB	3A	T	01:00 - 04:30 pm	BCH	00110	Feys,D
	0.0- 0.0	73023	LAB	3B	Th	01:00 - 04:30 pm	BCH	00110	Ma,H
	3.0- 3.0		LEC	1A	TTh	09:30 - 10:20 am	BCH	00318	Alghazali,H
	3.0- 3.0	73554	LEC	1B	TTh	09:30 - 10:20 am	BCH	00317	
	3.0- 3.0	70259	LAB	3A	Th	12:30 - 03:15 pm	BCH	00318	Alghazali,H
3210 Structural Design in Metals Prerequisite: Civ Eng 3201 with a grade of "C" or better. (Co-listed with Arch Eng 3210)	3.0- 3.0		LAB	3B	Th	12:30 - 03:15 pm	ARR		
	3.0- 3.0		LEC	1A	MW	12:00 - 12:50 pm	SHNK	00126	Yan,G
3220 Reinforced Concrete Design Prerequisite: Civ Eng 3201 with grade of "C" or better. (Co-listed with Arch Eng 3220)	3.0- 3.0		LAB	3A	F	01:00 - 03:50 pm	SHNK	00126	Yan,G
	3.0- 3.0		LEC	1A	MW	10:00 - 10:50 am	BCH	00318	Wu,C
3220 Reinforced Concrete Design Prerequisite: Civ Eng 3201 with grade of "C" or better. (Co-listed with Arch Eng 3220)	3.0- 3.0	70263	LAB	3A	Th	05:00 - 06:50 pm	BCH	00318	Wu,C
	3.0- 3.0	70264	LEC	1A	MWF	09:00 - 09:50 am	BCH	00120	Mendoza,C
3330 Engineering Fluid Mechanics Prerequisites: IDE 2350 or IDE 2340, and MATH 3304, each with a grade of "C" or better.	3.0- 3.0		LEC	1A	MWF	09:00 - 09:50 am	BCH	00120	Mendoza,C
	3.0- 3.0		LEC	1A	MWF	11:00 - 11:50 am	BCH	00318	Holmes,R
3334 Water Resources Engineering Prerequisites: Civ Eng 3330 and Stat 3113 with grades of "C" or better.	4.0- 4.0	71286	LAB	3A	M	01:00 - 03:50 pm	BCH	00316	Holmes,R
	4.0- 4.0	70266	LAB	3B	F	01:00 - 03:50 pm	BCH	00316	Holmes,R
3500 Transportation Engineering Prerequisites: Civ Eng 2401 and Civ Eng 2003.	3.0- 3.0		LEC	1A	TTh	09:30 - 10:20 am	BCH	00315	Sneed,M
	3.0- 3.0	70254	LAB	3A	W	02:00 - 03:50 pm	BCH	00115	
3715 Fundamentals of Geotechnical Engineering Prerequisite: Geo Eng 1150 or Arch Eng 2103; Civ Eng 2210; and preceded or accompanied by Civ Eng 3330.	3.0- 3.0		LEC	1A	MW	12:00 - 12:50 pm	BCH	00120	Deng,W
	3.0- 3.0	70256	LAB	3A	F	12:00 - 12:50 pm	BCH	00120	Deng,W
			LAB	3A	M	01:00 - 02:50 pm	CE	00114	
	3.0- 3.0	71188	LAB	3B	F	12:00 - 12:50 pm	BCH	00120	Deng,W
			LAB	3B	M	03:00 - 04:50 pm	CE	00114	
	3.0- 3.0	70257	LAB	3C	F	12:00 - 12:50 pm	BCH	00120	Deng,W
			LAB	3C	T	01:00 - 02:50 pm	CE	00114	
	3.0- 3.0	72020	LAB	3E	F	12:00 - 12:50 pm	BCH	00120	Deng,W
			LAB	3E	W	01:00 - 02:50 pm	CE	00114	
	3.0- 3.0	72021	LAB	3F	F	12:00 - 12:50 pm	BCH	00120	Deng,W
3842 Fundamentals of Building Systems Prerequisites: Physics 2135, Math 2222, and Junior Standing.			LAB	3F	W	04:00 - 05:50 pm	CE	00114	
	3.0- 3.0	70267	LEC	1A	TTh	08:00 - 09:15 am	BCH	00121	Gillis,W
4097 Senior Design Project Prerequisite: Civ Eng 4448 or Arch Eng 4448. (Co-listed with Arch Eng 4097 and Env Eng 4097)	3.0- 3.0	70272	LEC	1A	M	01:00 - 03:50 pm	BCH	00120	Showalter,W
	0.0- 6.0	71428	IND	6A	ARR	ARR	ARR		Abdelrahman,M
4099 Undergraduate Research	0.0- 6.0	70286	IND	6B	ARR	ARR	ARR		Baur,S
	0.0- 6.0	70287	IND	6C	ARR	ARR	ARR		Burken,J
	0.0- 6.0	70288	IND	6D	ARR	ARR	ARR		Chen,G
	0.0- 6.0	71082	IND	6E	ARR	ARR	ARR		Deng,W
	0.0- 6.0	70289	IND	6F	ARR	ARR	ARR		ElGawady,M
	0.0- 6.0	70290	IND	6G	ARR	ARR	ARR		Feys,D
	0.0- 6.0	70291	IND	6H	ARR	ARR	ARR		Fitch,M
	0.0- 6.0	71162	IND	6J	ARR	ARR	ARR		Gillis,W
	0.0- 6.0	70285	IND	6K	ARR	ARR	ARR		Hu,X
	0.0- 6.0	70292	IND	6L	ARR	ARR	ARR		Khayat,K
	0.0- 6.0	70293	IND	6M	ARR	ARR	ARR		Libre,N
	0.0- 6.0	70294	IND	6N	ARR	ARR	ARR		Liu,J
	0.0- 6.0	70295	IND	6P	ARR	ARR	ARR		Ma,H
	0.0- 6.0	70296	IND	6Q	ARR	ARR	ARR		Mendoza,C
	0.0- 6.0	70297	IND	6R	ARR	ARR	ARR		Morrison,G
	0.0- 6.0	70298	IND	6T	ARR	ARR	ARR		Myers,J
	0.0- 6.0	70299	IND	6U	ARR	ARR	ARR		Oerther,D
	0.0- 6.0	71882	IND	6V	ARR	ARR	ARR		Richardson,D
	0.0- 6.0	72254	IND	6W	ARR	ARR	ARR		Schonberg,W
	0.0- 6.0	72702	IND	6X	ARR	ARR	ARR		Showalter,W
0.0- 6.0	72903	IND	6Y	ARR	ARR	ARR		Sneed,L	
0.0- 6.0	73307	IND	6Z	ARR	ARR	ARR		Wang,J	
0.0- 6.0	73308	IND	6AA	ARR	ARR	ARR		Yan,G	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	73309	IND	6BB	ARR	ARR	ARR		Zhang,X
	0.0- 6.0	73571	IND	6CC	ARR	ARR	ARR		LaBoube,R
4448 Fundamentals Of Contracts And Construction Engineering Prerequisite: Senior Standing. (Co-listed with Arch Eng 4448)	3.0- 3.0	70268	LEC	1A	TTh	08:00 - 09:15 am	BCH	00120	Showalter,W
4729 Foundation Engineering Prerequisite: Civ Eng 3715.	3.0- 3.0	71224	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00101	Stephenson,R
5000 Special Problems	0.0- 6.0	70273	IND	6A	ARR	ARR	ARR		Baur,S
						Group will be traveling to So. Africa leaving December 29, 2017 and returning January 14, 2018. Students interested are required to register via PCE office with payment of deposit required by Sept 29th so that airfare and in-country arrangements can be made.			
	0.0- 6.0	70274	IND	6B	ARR	ARR	ARR		Abdelrahman,M
	0.0- 6.0	70275	IND	6C	ARR	ARR	ARR		Burken,J
	0.0- 6.0	71085	IND	6D	ARR	ARR	ARR		Chen,G
	0.0- 6.0	70276	IND	6E	ARR	ARR	ARR		Deng,W
	0.0- 6.0	70277	IND	6F	ARR	ARR	ARR		Elgin,R
	0.0- 6.0	71121	IND	6G	ARR	ARR	ARR		ElGawady,M
	0.0- 6.0	70278	IND	6H	ARR	ARR	ARR		Feys,D
	0.0- 6.0	71161	IND	6J	TTh	09:30 - 10:20 am	BCH	00316	Fitch,M
			IND	6J	W	01:00 - 03:50 pm	BCH	00110	
	0.0- 6.0	71039	IND	6K	ARR	ARR	ARR		Gillis,W
	0.0- 6.0	70279	IND	6L	ARR	ARR	ARR		Khayat,K
	0.0- 6.0	70280	IND	6M	ARR	ARR	ARR		Ma,H
	0.0- 6.0	70281	IND	6N	ARR	ARR	ARR		Mendoza,C
	0.0- 6.0	70282	IND	6P	ARR	ARR	ARR		Hu,X
	0.0- 6.0	70283	IND	6Q	ARR	ARR	ARR		Oerther,D
	0.0- 6.0	70284	IND	6R	ARR	ARR	ARR		Schonberg,W
	0.0- 6.0	72255	IND	6T	ARR	ARR	ARR		Showalter,W
	0.0- 6.0	72256	IND	6U	ARR	ARR	ARR		Sneed,L
	0.0- 6.0	72411	IND	6V	ARR	ARR	ARR		Wu,C
	0.0- 6.0	72904	IND	6W	ARR	ARR	ARR		Yan,G
	0.0- 6.0	72905	IND	6X	ARR	ARR	ARR		Zhang,X
	0.0- 6.0	73557	IND	6Y	ARR	ARR	ARR		Liu,J
5001 Special Topics Prerequisites: Junior or Senior Standing. Co-listed with ENV ENG 5001 and POL SCI 4001.	3.0- 3.0	73310	LEC	1A	MWF	12:00 - 12:50 pm	BCH	00213	Oerther,D
						STEAM Diplomacy UM Shared Course-Secondary			
	3.0- 3.0	73486	LEC	1B	TTh	12:30 - 01:45 pm	LIB	000G14	Hu,X
						Intelligent Transportation Sys UM Shared Course-Secondary			
5113 Composition And Properties Of Concrete Prerequisite: Civ Eng 3116 with a grade of "C" or better.	3.0- 3.0	73485	LEC	1A	TTh	11:00 - 12:15 pm	EECH	00112	Liu,J
						Communication Emphasized			
5156 Concrete Pavement Design Prerequisite: Civ Eng 3116 with a grade of "C" or better.	3.0- 3.0	72906	LEC	1A	TTh	09:30 - 10:45 am	BCH	00110	Richardson,D
5203 Applied Mechanics In Structural Engineering Prerequisite: Civ Eng 3201 with grade of "C" or better. (Co-listed with Arch Eng 5203)	3.0- 3.0	73330	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00260	Schonberg,W
5210 Advanced Steel Structures Design	3.0- 3.0	73493	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00260	ElGawady,M
						Prerequisite: Civ Eng 3210 with a grade of "C" or better. (Co-listed with Arch Eng 5210)			
5220 Advanced Concrete Structures Design Prerequisite: Civ Eng 3220 with a grade of "C" or better. (Co-listed with Arch Eng 5220)	3.0- 3.0	73305	LEC	1A	TTh	08:00 - 09:15 am	BCH	00213	Sneed,L
5250 Air Transportation Prerequisite: Civ Eng 3500 with a grade of "C" or better.	3.0- 3.0		LEC	1A	Th	07:00 - 09:30 pm	EECH	00239	Trueblood,M
	3.0- 3.0	73545	LAB	3A	ARR	ARR	ARR		

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR			
5333 Intermediate Hydraulic Engineering Prerequisite: Civ Eng 3330 with a grade of "C" or better.	3.0- 3.0	73313	LEC	1A	MWF	08:00 - 08:50 am	BCH	00216	Mendoza,C			
5442 Construction Planning and Scheduling Strategies Prerequisite: Civ Eng or Arch Eng 4448. (Co-listed with Arch Eng 5442)	3.0- 3.0	71471	LEC	1A	M	04:00 - 06:30 pm	BCH	00110	Bodapati,S			
5446 Management Of Construction Costs Prerequisites: Civ Eng 4448 with a grade of "C" or better. (Co-listed with Arch Eng 5446)	3.0- 3.0	73490	LEC	1A	MWF	10:00 - 10:50 am	BCH	00317	Showalter,W			
5448 Green Engineering: Analysis of Constructed Facilities Prerequisites: Civ Eng 4448 or Arch Eng 4448; and Junior Standing. (Co-listed with Arch Eng 5448)	3.0- 3.0	71644	LEC	1A	MWF	09:00 - 09:50 am	TMH	00260	Scott-Showalter,P			
5449 Engineering and Construction Contract Specifications Prerequisite: Civ Eng 4448 with a grade of "C" or better. (Co-listed with Arch Eng 5449)	3.0- 3.0	72003	LEC	1A	MWF	11:00 - 11:50 am	BCH	00213	Scott-Showalter,P			
5515 Advanced Traffic Signal Operations Prerequisite: CIV ENG 5513.	3.0- 3.0	73489	LEC	1A	TTh	08:00 - 09:15 am	BCH	00317	Hu,X			
5619 Environmental Engineering Design Prerequisite: Civ Eng 3615 or Env Eng 3615. (Co-listed with Env Eng 5619)	3.0- 3.0	71926	LEC	1A	T	04:00 - 04:50 pm	BCH	00216	Campbell,K			
			LEC	1A	Th	04:00 - 04:50 pm	BCH	00216				
5640 Environmental Law And Regulations (Co-listed with Env Eng 5640)	3.0- 3.0	71384	LAB	3A	Th	05:00 - 05:50 pm	BCH	00209	Campbell,K			
			LEC	1A	M	07:00 - 09:30 pm	BCH	00213		Flechas,F		
5650 Public Health Engineering Prerequisite: Civ Eng 2601 with a grade of "C" or better. (Co-listed with Env Eng 5650)	3.0- 3.0	72541	LEC	1A	TTh	11:00 - 12:15 pm	LIB	000G14	Oerther,D			
5744 Geosynthetics in Engineering Prerequisite: Civ Eng 3715 with grade of "C" or better.	3.0- 3.0	73004	LEC	1A	W	04:00 - 06:30 pm	BCH	00213	McLain,K			
6000 Special Problems	0.0- 6.0	70300	IND	6A	ARR	ARR	ARR		Abdelrahman,M			
			IND	6B	ARR	ARR	ARR		Baur,S			
			IND	6C	ARR	ARR	ARR		Burken,J			
			IND	6D	ARR	ARR	ARR		Chen,G			
			IND	6E	ARR	ARR	ARR		Deng,W			
			IND	6F	ARR	ARR	ARR		ElGawady,M			
			IND	6G	ARR	ARR	ARR		Feys,D			
			IND	6H	ARR	ARR	ARR		Fitch,M			
			IND	6J	ARR	ARR	ARR		Gillis,W			
			IND	6K	ARR	ARR	ARR		Hu,X			
			IND	6L	ARR	ARR	ARR		Khayat,K			
			IND	6M	ARR	ARR	ARR		Liu,J			
			IND	6N	ARR	ARR	ARR		Ma,H			
			IND	6P	ARR	ARR	ARR		Mendoza,C			
			IND	6Q	ARR	ARR	ARR		Myers,J			
			IND	6R	ARR	ARR	ARR		Oerther,D			
			IND	6T	ARR	ARR	ARR		Richardson,D			
			IND	6U	ARR	ARR	ARR		Schonberg,W			
			IND	6V	ARR	ARR	ARR		Showalter,W			
			6001 Special Topics	3.0- 3.0	73315	IND	6W	ARR	ARR	ARR		Sneed,L
IND	6X	ARR				ARR	ARR		Wang,J			
IND	6Y	ARR				ARR	ARR		Wu,C			
IND	6Z	ARR				ARR	ARR		Yan,G			
IND	6AA	ARR				ARR	ARR		Zhang,X			
LEC	1A	MWF				02:00 - 03:00 pm	BCH	00317	Feys,D			
Undrstd Rheology CemBsd Matr1												
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70328				IND	6A	ARR	ARR	ARR		Burken,J

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6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70329	IND	6A	ARR	ARR	ARR		Burken,J
6099 Research	0.0-15.0	71340	IND	6A	ARR	ARR	ARR		Abdelrahman,M
	0.0-15.0	70315	IND	6B	ARR	ARR	ARR		Baur,S
	0.0-15.0	70316	IND	6C	ARR	ARR	ARR		Burken,J
	0.0-15.0	71084	IND	6D	ARR	ARR	ARR		Chen,G
	0.0-15.0	70317	IND	6E	ARR	ARR	ARR		Deng,W
	0.0-15.0	70318	IND	6F	ARR	ARR	ARR		ElGawady,M
	0.0-15.0	70319	IND	6G	ARR	ARR	ARR		Feys,D
	0.0-15.0	70320	IND	6H	ARR	ARR	ARR		Fitch,M
	0.0-15.0	71164	IND	6J	ARR	ARR	ARR		Gillis,W
	0.0-15.0	70314	IND	6K	ARR	ARR	ARR		Hu,X
	0.0-15.0	70321	IND	6L	ARR	ARR	ARR		Khayat,K
	0.0-15.0	70322	IND	6M	ARR	ARR	ARR		Libre,N
	0.0-15.0	70323	IND	6N	ARR	ARR	ARR		Liu,J
	0.0-15.0	70324	IND	6P	ARR	ARR	ARR		Luna,R
	0.0-15.0	70325	IND	6Q	ARR	ARR	ARR		Ma,H
	0.0-15.0	70326	IND	6R	ARR	ARR	ARR		Mendoza,C
	0.0-15.0	70327	IND	6T	ARR	ARR	ARR		Myers,J
	0.0-15.0	71867	IND	6U	ARR	ARR	ARR		Oerther,D
	0.0-15.0	72259	IND	6V	ARR	ARR	ARR		Richardson,D
	0.0-15.0	72260	IND	6W	ARR	ARR	ARR		Schonberg,W
	0.0-15.0	72389	IND	6X	ARR	ARR	ARR		Showalter,W
	0.0-15.0	72669	IND	6Y	ARR	ARR	ARR		Sneed,L
	0.0-15.0	72908	IND	6Z	ARR	ARR	ARR		Wang,J
	0.0-15.0	73316	IND	6AA	ARR	ARR	ARR		Wu,C
	0.0-15.0	73317	IND	6BB	ARR	ARR	ARR		Yan,G
	0.0-15.0	73318	IND	6CC	ARR	ARR	ARR		Zhang,X
6205 Structural Dynamics and Earthquake Engineering Prerequisite: Civ/Arch Eng 5208 or equivalent.	3.0- 3.0	73492	LEC	1A	W	04:00 - 06:30 pm	BCH	00215	Chen,G
6338 Advanced Hydrology Prerequisite: Civ Eng 3333.	3.0- 3.0	71613	LEC	1A	T	04:00 - 06:30 pm	BCH	00213	Wilson,L
6611 Physicochemical Operations In Environmental Engineering Systems Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Env Eng 6611 and Chem Eng 6330)	3.0- 3.0	71718	LEC	1A	TTh	09:30 - 10:45 am	BCH	00209	Wang,J
6612 Biological Operations In Environmental Engineering Systems Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Env Eng 6612)	3.0- 3.0	71864	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00213	Fitch,M
6715 Advanced Soil Mechanics Prerequisite: Civ Eng 5715.	3.0- 3.0	72249	LEC	1A	T	07:00 - 09:30 pm	BCH	00213	Deng,W
6716 Soil Stabilization Prerequisite: Civ Eng 5715.	3.0- 3.0	72248	LEC	1A	M	07:00 - 09:30 pm	TMH	00260	Zhang,X
6801 Advanced Concrete Science and Technology Prerequisites: Civ Eng 5113 or equivalent; or consent of the instructor with Graduate Standing. (Co-listed with Arch Eng 6801)	3.0- 3.0	73495	LEC	1A	TTh	04:00 - 06:30 pm	BCH	00101	Khayat,K

Computer Engineering

2210 Introduction to Digital Logic Prerequisite: Sophomore standing. Comp Eng 2211 is also a co-requisite for Comp Eng and Elec Eng majors.	3.0- 3.0	70337	LEC	1A	MWF	11:00 - 11:50 am	EMGT	00103	Stanley,R
	3.0- 3.0	70338	LEC	1B	MWF	12:00 - 12:50 pm	EECH	00101	Cetinkaya,E
	3.0- 3.0	72034	LEC	1C	TTh	09:30 - 10:45 am	EECH	00112	Zawodniok,M
	3.0- 3.0	73101	LEC	1D	MWF	01:00 - 01:50 pm	EMGT	00201	Cetinkaya,E
2211 Computer Engineering Laboratory Prerequisite: Preceded or accompanied by Comp Eng 2210.	1.0- 1.0	70339	LAB	3A	M	01:00 - 02:50 pm	EECH	00209A	Stanley,R
	1.0- 1.0	70340	LAB	3B	M	03:00 - 04:50 pm	EECH	00209A	Stanley,R
	1.0- 1.0	71728	LAB	3C	T	10:00 - 11:50 am	EECH	00209A	Stanley,R

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	1.0- 1.0	70342	LAB	3D	T	02:30 - 04:20 pm	EECH	00209A	Stanley,R
						Communication Emphasized			
	1.0- 1.0	71956	LAB	3E	T	06:10 - 08:00 pm	EECH	00209A	Stanley,R
						Communication Emphasized			
	1.0- 1.0	70343	LAB	3F	W	01:00 - 02:50 pm	EECH	00209A	Stanley,R
						Communication Emphasized			
	1.0- 1.0	70344	LAB	3G	W	03:00 - 04:50 pm	EECH	00209A	Stanley,R
						Communication Emphasized			
	1.0- 1.0	70341	LAB	3H	Th	10:00 - 11:50 am	EECH	00209A	Stanley,R
						Communication Emphasized			
	1.0- 1.0	72461	LAB	3J	Th	06:10 - 08:00 pm	EECH	00209A	Stanley,R
						Communication Emphasized			
3002	1.0- 1.0	70345	IND	6A	ARR	ARR	ARR		Stanley,R
	Prerequisite: Consent of the Electrical and Computer Engineering Department required.								
3110	3.0- 3.0	71957	LEC	1A	MWF	09:00 - 09:50 am	EMGT	00103	Choi,M
	Prerequisites: COMP ENG 2210; preceded or accompanied by COMP ENG 3150.								
3150	3.0- 3.0	70346	LEC	1A	TTh	09:30 - 10:45 am	EECH	00G31	Hurson,A
	3.0- 3.0	70347	LEC	1B	MWF	02:00 - 02:50 pm	EMGT	00103	Stanley,R
	Prerequisites: COMP ENG 2210 and COMP SCI 1570 (or programming equivalent) each with grade of "C" or better.								
3151	1.0- 1.0	71729	LAB	3A		CANCELLED			
	1.0- 1.0	71108	LAB	3B	M	10:00 - 10:50 am	EE	00106	Stanley,R
						Communication Emphasized			
			LAB	3B	M	11:00 - 11:50 am	EECH	00209A	
						Communication Emphasized			
	1.0- 1.0	71172	LAB	3C	M	06:10 - 07:00 pm	EE	00106	Stanley,R
						Communication Emphasized			
			LAB	3C	M	07:00 - 07:50 pm	EECH	00209A	
						Communication Emphasized			
	1.0- 1.0	71932	LAB	3D	W	06:10 - 07:00 pm	EECH	00107	Stanley,R
						Communication Emphasized			
			LAB	3D	W	07:00 - 07:50 pm	EECH	00209A	
						Communication Emphasized			
	1.0- 1.0	72771	LAB	3E	F	06:10 - 07:00 pm	EE	00106	Stanley,R
						Communication Emphasized			
			LAB	3E	F	07:00 - 07:50 pm	EECH	00209A	
						Communication Emphasized			
	1.0- 1.0	73103	LAB	3F	W	10:00 - 10:50 am	EE	00106	
						Communication Emphasized			
			LAB	3F	W	10:50 - 11:40 am	EECH	00209A	Stanley,R
						Communication Emphasized			
4000	1.0- 6.0	71008	IND	6B	ARR	ARR	ARR		
4096	1.0- 1.0		RSD	2A	M	12:00 - 12:50 pm	EECH	00G31	Woodley,R
	1.0- 1.0		RSD	2B	M	12:00 - 12:50 pm	EECH	00G31	Woodley,R
	1.0- 1.0	70354	LAB	3A	T	03:30 - 04:20 pm	EECH	00101	Woodley,R
	1.0- 1.0	70355	LAB	3B	W	03:00 - 03:50 pm	EECH	00104	Ferguson,I
	Prerequisites: Comp Eng 2210, either Econ 1100 or Econ 1200, either English 3560 or English 1160, Comp Eng 3150, Comp Eng 3151, Comp Eng 3110, and Elec Eng 2200.								
4097	3.0- 3.0	70356	LAB	3A	MW	03:00 - 04:50 pm	EECH	00G31	Donnell,K
	3.0- 3.0	70357	LAB	3B	TTh	03:00 - 04:50 pm	EECH	00G31	Ferguson,I
	Prerequisites: Comp Eng 4096 with a grade of "C" or better, Stat 3117 or Stat 3115 or Stat 5643, and Sp&M S 1185.								
4099	1.0- 6.0	70351	IND	6A	ARR	ARR	ARR		Sedighsarvestani,S
	1.0- 6.0	70352	IND	6B	ARR	ARR	ARR		Wunsch,D
	1.0- 6.0	73041	IND	6C	ARR	ARR	ARR		Watkins,S
5000	1.0- 6.0	72395	IND	6A	ARR	ARR	ARR		Fan,J
5040	0.0- 0.0	71838	IND	6A	ARR	ARR	ARR		
5099	1.0-15.0	70359	IND	6A	ARR	ARR	ARR		Acar,L
	1.0-15.0	70360	IND	6B	ARR	ARR	ARR		Beetner,D
	1.0-15.0	70361	IND	6C	ARR	ARR	ARR		Cetinkaya,E
	1.0-15.0	70362	IND	6D	ARR	ARR	ARR		Choi,M
	1.0-15.0	71360	IND	6E	ARR	ARR	ARR		Fan,J

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	1.0-15.0	70368	IND	6F	ARR	ARR	ARR		Kim,C
	1.0-15.0	70363	IND	6G	ARR	ARR	ARR		McMillin,B
	1.0-15.0	70364	IND	6H	ARR	ARR	ARR		Moss,R
	1.0-15.0	70365	IND	6J	ARR	ARR	ARR		Sarangapani,J
	1.0-15.0	70366	IND	6K	ARR	ARR	ARR		Sedighsarvestani,S
	1.0-15.0	70367	IND	6L	ARR	ARR	ARR		Stanley,R
	1.0-15.0	71812	IND	6N	ARR	ARR	ARR		Watkins,S
	1.0-15.0	71821	IND	6P	ARR	ARR	ARR		Wu,C
	1.0-15.0	71825	IND	6Q	ARR	ARR	ARR		Wunsch,D
	1.0-15.0	71939	IND	6R	ARR	ARR	ARR		Zawodniok,M
5110 Principles of Computer Architecture Prerequisite: Comp Eng 3110.	3.0- 3.0	72148	LEC	1A	MWF	03:00 - 03:50 pm	EECH	00101	Choi,M
5120 Digital Computer Design Prerequisites: COMP ENG 3150 and COMP ENG 3151.	3.0- 3.0	73199	LEC	1A	T	07:00 - 09:30 pm	BERTELS	00B12A	Hanna,W
5151 Digital Systems Design Laboratory Prerequisites: COMP ENG 3150 or 5110.	3.0- 3.0		LEC	1A	TTh	09:30 - 10:45 am	EECH	00102	Younger,R
	3.0- 3.0	70349	LAB	3A	ARR	ARR	ARR		Younger,R
5170 Real-Time Systems Prerequisites: COMP ENG 3150 or COMP SCI 3800. Co-listed with Comp Sci 5205	3.0- 3.0	71958	LEC	1A	TTh	09:30 - 10:45 am	CS	00209	Guo,Z
5220 Digital System Modeling Prerequisite: Comp Eng 2210 with a grade of "C" or better.	3.0- 3.0	70350	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00260	Dua,R
5410 Introduction to Computer Communication Networks Prerequisites: Comp Eng 3150 or computer hardware competency and Stat 3117 or Stat 3115 or Stat 5643 or equivalent.	3.0- 3.0	71203	LEC	1A	TTh	11:00 - 12:15 pm	EECH	00103	Sedighsarvestani,S
5620 Signal Integrity in High-Speed Digital & Mixed Signal Design Prerequisites: Elec Eng 3600 or Comp Eng 3150, and Senior standing. (Co-listed with Elec Eng 5620)	3.0- 3.0	71025	LEC	1A	MWF	10:00 - 10:50 am	EECH	00103	Drewniak,J
6000 Special Problems Prerequisite: Consent of the instructor.	1.0- 6.0	70358	IND	6A	ARR	ARR	ARR		Choi,M
	1.0- 6.0	71124	IND	6B	ARR	ARR	ARR		Cetinkaya,E
	1.0- 6.0	71672	IND	6C	ARR	ARR	ARR		Sedighsarvestani,S
	1.0- 6.0	71903	IND	6D	ARR	ARR	ARR		Wunsch,D
	1.0- 6.0	72666	IND	6E	ARR	ARR	ARR		Wunsch,D
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70369	IND	6A	ARR	ARR	ARR		Kim,C
6099 Special Research and Thesis Prerequisite: Consent of the instructor required.	1.0-15.0	72304	IND	6A	ARR	ARR	ARR		Beetner,D
	1.0-15.0	72365	IND	6B	ARR	ARR	ARR		Cetinkaya,E
	1.0-15.0	72366	IND	6C	ARR	ARR	ARR		Choi,M
	1.0-15.0	72367	IND	6D	ARR	ARR	ARR		Fan,J
	1.0-15.0	72368	IND	6E	ARR	ARR	ARR		Kim,C
	1.0-15.0	72369	IND	6F	ARR	ARR	ARR		Moss,R
	1.0-15.0	72371	IND	6G	ARR	ARR	ARR		Sarangapani,J
	1.0-15.0	72372	IND	6H	ARR	ARR	ARR		Sedighsarvestani,S
	1.0-15.0	72373	IND	6J	ARR	ARR	ARR		Stanley,R
	1.0-15.0	72374	IND	6K	ARR	ARR	ARR		Watkins,S
	1.0-15.0	72375	IND	6L	ARR	ARR	ARR		Wu,C
	1.0-15.0	72376	IND	6M	ARR	ARR	ARR		Wunsch,D
	1.0-15.0	72377	IND	6N	ARR	ARR	ARR		Zawodniok,M
	1.0-15.0	72378	IND	6P	ARR	ARR	ARR		Zoughi,R
	1.0-15.0	72383	IND	6Q	ARR	ARR	ARR		Zoughi,R
6230 Advanced VLSI Design Prerequisite: Comp Eng 5210 is required.	3.0- 3.0	73201	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00103	Beetner,D
6302 Advanced Topics in Data Mining Prerequisite: A "C" or better grade in Comp Sci 301 Introduction to Data Mining. (Co-listed with Comp Sci 6402 and Sys Eng 6216)	3.0- 3.0	72817	LEC	1A	MWF	03:00 - 03:50 pm	BERTELS	00B12A	Leopold,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6330 Clustering Algorithms Prerequisite: At least one graduate course in statistics, data mining, algorithms, computational intelligence, or neural networks, consistent with student's degree program. (Co-listed with Elec Eng 6340, Sys Eng 6214, Comp Sci 6405, Stat 6239)	3.0- 3.0	73202	LEC	1A	T	07:00 - 09:30 pm	EECH	00239	Wunsch,D
6410 Modeling Complex Systems Prerequisites: Graduate Standing. (Co-listed with SYS ENG 6321)	3.0- 3.0	72719	LEC	1A	W	04:00 - 06:30 pm	TMH	00260	Dagli,C
6420 Wireless Ad hoc and Sensor Networks Prerequisite: Comp Eng 5430 or Comp Eng 5420 or equivalent. (Co-listed with Elec Eng 6430 and Sys Eng 6324)	3.0- 3.0	73206	LEC	1A	MWF	08:00 - 08:50 am	FUL	00107A	Zawodniok,M

Computer Science

1200 Discrete Mathematics For Computer Science Prerequisite: A "C" or better grade in Comp Sci 1570.	3.0- 3.0	70380	LEC	1A	MWF	02:00 - 02:50 pm	SHNK	000G3	Zhu,P
1570 Introduction To Programming Prerequisite: Accompanied by Comp Sci 1580.	3.0- 3.0	70370	LEC	1A	MWF	09:00 - 09:50 am	CS	00216	Price,C
			COMP SCI MAJORS ONLY						
	3.0- 3.0	70371	LEC	1B	MWF	10:00 - 10:50 am	CS	00204	Price,C
	3.0- 3.0	70372	LEC	1C	MWF	11:00 - 11:50 am	CS	00216	Leopold,J
	3.0- 3.0	72018	LEC	1D	MWF	12:00 - 12:50 pm	CS	00203	Leopold,J
	3.0- 3.0	72095	LEC	1E	MWF	01:00 - 01:50 pm	CS	00207	
	3.0- 3.0	72469	LEC	1F	MWF	02:00 - 02:50 pm	CS	00203	Xiong,H
1575 Data Structures Prerequisite: Grade of "C" or better in Comp Sci 1570.	3.0- 3.0	70378	LEC	1A	MWF	12:00 - 12:50 pm	BCH	00125	Taylor,P
1580 Introduction To Programming Laboratory Prerequisite: Accompanied by Comp Sci 1570.	1.0- 1.0	70373	LAB	3A	T	10:00 - 11:50 am	TMH	00251	
	1.0- 1.0	70374	LAB	3B	T	12:00 - 01:50 pm	CH	00105	
	1.0- 1.0	70375	LAB	3C	T	06:00 - 07:50 pm	CH	00105	
	1.0- 1.0	72019	LAB	3D	W	02:00 - 03:50 pm	TMH	00251	
	1.0- 1.0	72096	LAB	3E	W	04:00 - 05:50 pm	CH	00105	
1585 Data Structures Laboratory Prerequisite: Preceded or accompanied by Comp Sci 1575.	1.0- 1.0	73251	LAB	3A	T	02:00 - 03:50 pm	MCNutt	234	Taylor,P
	1.0- 1.0	73252	LAB	3B	Th	10:00 - 11:50 am	TMH	00251	
	1.0- 1.0	73253	LAB	3C	Th	12:00 - 01:50 pm	TMH	00251	
	1.0- 1.0	73254	LAB	3D	Th	05:00 - 06:50 pm	TMH	00251	
1971 Introduction To Programming Methodology	2.0- 2.0	70376	LEC	1A	TTh	02:00 - 03:15 pm	BERTELS	00B10	
1972 Introduction to MATLAB Programming Prerequisite: Accompanied by Comp Sci 1982 and a "C" or better grade in either Math 1208 or Math 1214.	2.0- 2.0	72246	LEC	1A	MW	11:00 - 11:50 am	SHNK	000G3	Zhu,P
1981 Programming Methodology Laboratory Prerequisite: Accompanied by Computer Science 1971.	1.0- 1.0	72672	LAB	3A	M	04:00 - 05:50 pm	TMH	00251	
	1.0- 1.0	71933	LAB	3B	M	02:00 - 03:50 pm	TMH	00251	
1982 MATLAB Programming Laboratory Prerequisite: Accompanied by Comp Sci 1972.	1.0- 1.0	72099	LAB	3A	T	02:00 - 03:50 pm	TMH	00251	Zhu,P
	1.0- 1.0	72098	LAB	3B	T	12:00 - 01:50 pm	TMH	00251	
	1.0- 1.0	72953	LAB	3C	T	04:00 - 05:50 pm	TMH	00251	
2001 Special Topics Co-listed with ECON 2001.	3.0- 3.0	73394	LEC	1A	M	04:00 - 06:30 pm	IDE	00202	Bachman,B
2002 Cooperative Work Training	1.0- 5.0	70385	IND	6A	ARR	ARR	ARR		Markowsky,G
2200 Theory of Computer Science Prerequisite: A "C" or better grade in both Comp Sci 1200 and Comp Sci 1510.	3.0- 3.0	70398	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	000G5	Markowsky,G
2300 File Structures And Introduction To Database Systems Prerequisite: A "C" or better grade in Comp Sci 1510.	3.0- 3.0	70388	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00101	Hurson,A
	3.0- 3.0	72671	LEC	1B	TTh	09:30 - 10:45 am	CS	00207	Lin,D

CATALOG #	COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2500	Algorithms	3.0- 3.0	70389	LEC	1A	TTh	09:30 - 10:45 am	TMH	00250	Markowsky,G
	Prerequisite: A "C" or better grade in both Comp Sci 1200 and Comp Sci 1510; preceded by "C" or better grade in either Math 1208 or Math 1214, or accompanied by either Math 1208 or Math 1214.	3.0- 3.0	72100	LEC	1B	TTh	02:00 - 03:15 pm	BCH	00124	Markowsky,G
3001	Special Topics	3.0- 3.0	73398	LEC	1A	M	07:00 - 09:30 pm	IDE	00202	Bachman,B
	Prerequisites: A grade of "C" or better in COMP SCI or ECON 2001. Co-listed with Econ 3001.	3.0- 3.0	73397	LAB	3A	ARR	ARR	ARR		Bachman,B
3100	Software Engineering I	3.0- 3.0	71216	LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00112B	
	Prerequisite: A "C" or better grade in Comp Sci 2500 and at least Junior standing.			LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00112A	Gosnell,M
3200	Introduction To Numerical Methods	3.0- 3.0	70386	LEC	1A	TTh	08:00 - 09:15 am	CS	00216	Sabharwal,C
	Prerequisites: Program competency and a "C" or better grade in either Math 1215 or Math 1221.	3.0- 3.0	72954	LEC	1B	TTh	09:30 - 10:45 am	CS	00216	Sabharwal,C
3500	Programming Languages And Translators	3.0- 3.0	72813	LEC	1A	MWF	12:00 - 12:50 pm	CS	00202	Morales,A
	Prerequisite: A "C" or better grade in Comp Sci 2200.	3.0- 3.0	70387	LEC	1B	MWF	02:00 - 02:50 pm	CS	00202	Morales,A
3800	Introduction To Operating Systems	3.0- 3.0	70390	LEC	1A	MWF	02:00 - 02:50 pm	CS	00207	Gosnell,M
	Prerequisites: A "C" or better grade in all of Comp Sci 1510, Comp Sci 1200, and Comp Eng 3150.	3.0- 3.0	72101	LEC	1B	MWF	03:00 - 03:50 pm	CS	00207	Gosnell,M
4000	Special Problems	0.0- 6.0	70381	IND	6A	ARR	ARR	ARR		Ercal,F
		0.0- 6.0	70383	IND	6B	ARR	ARR	ARR		Leopold,J
		0.0- 6.0	70384	IND	6C	ARR	ARR	ARR		Madria,S
		0.0- 6.0	70382	IND	6D	ARR	ARR	ARR		McMillin,B
		0.0- 6.0	72677	IND	6E	ARR	ARR	ARR		Hurson,A
4096	Software Systems Development I	3.0- 3.0	71072	LEC	1A	TTh	03:30 - 04:45 pm	TMH	00295	Morales,A
	Prerequisites: 100 credit hours completed and a grade of "C" or better in both Comp Sci 3100 and one of Phil 3225, Phil 3235, Phil 4340, or Phil 4368.									
4097	Software Systems Development II	3.0- 3.0	71666	LEC	1A	TTh	03:30 - 04:45 pm	TMH	00295	Morales,A
	Prerequisite: A "C" or better grade in Comp Sci 4096.									
4099	Undergraduate Research	0.0- 6.0	70399	IND	6A	ARR	ARR	ARR		Das,S
		0.0- 6.0	70400	IND	6B	ARR	ARR	ARR		Taylor,P
		0.0- 6.0	71153	IND	6D	ARR	ARR	ARR		Fu,Y
		0.0- 6.0	71590	IND	6E	ARR	ARR	ARR		Guo,Z
		0.0- 6.0	71705	IND	6F	ARR	ARR	ARR		Hurson,A
		0.0- 6.0	71847	IND	6G	ARR	ARR	ARR		Leopold,J
		0.0- 6.0	71899	IND	6H	ARR	ARR	ARR		Lin,D
		0.0- 6.0	71908	IND	6J	ARR	ARR	ARR		Madria,S
		0.0- 6.0	72312	IND	6K	ARR	ARR	ARR		McMillin,B
		0.0- 6.0	73131	IND	6L	ARR	ARR	ARR		Tauritz,D
		0.0- 6.0	73132	IND	6M	ARR	ARR	ARR		Xiong,H
		0.0- 6.0	73133	IND	6N	ARR	ARR	ARR		Yin,Z
4700	Intellectual Property For Computer Scientists	3.0- 3.0	71409	LEC	1A	T	07:00 - 09:30 pm	CS	00209	Canis,R
	Prerequisite: Senior or graduate standing.									
5000	Special Problems	0.0- 6.0	70391	IND	6A	ARR	ARR	ARR		Ercal,F
		0.0- 6.0	70392	IND	6B	ARR	ARR	ARR		Hurson,A
		0.0- 6.0	70393	IND	6C	ARR	ARR	ARR		Leopold,J
		0.0- 6.0	70394	IND	6D	ARR	ARR	ARR		Madria,S
		0.0- 6.0	70395	IND	6E	ARR	ARR	ARR		McMillin,B
		0.0- 6.0	70396	IND	6F	ARR	ARR	ARR		Sabharwal,C
		0.0- 6.0	71007	IND	6G	ARR	ARR	ARR		Tauritz,D
5001	Special Topics	3.0- 3.0	73523	LEC	1A	T	04:00 - 06:30 pm	IDE	00202	Bachman,B
	Prerequisites: COMP SCI 1510.									
5099	Research	0.0-16.0	71115	IND	6A	ARR	ARR	ARR		Das,S

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	0.0-16.0	70407	IND	6B	ARR	ARR	ARR		Ercal,F	
	0.0-16.0	70408	IND	6C	ARR	ARR	ARR		Hurson,A	
	0.0-16.0	70409	IND	6D	ARR	ARR	ARR		Jiang,W	
	0.0-16.0	70410	IND	6E	ARR	ARR	ARR		Leopold,J	
	0.0-16.0	70412	IND	6F	ARR	ARR	ARR		Lin,D	
	0.0-16.0	70411	IND	6G	ARR	ARR	ARR		Madria,S	
	0.0-16.0	70413	IND	6H	ARR	ARR	ARR		McMillin,B	
	0.0-16.0	70414	IND	6J	ARR	ARR	ARR		Sabharwal,C	
	0.0-16.0	71154	IND	6K	ARR	ARR	ARR		Sedighsarvestani,S	
	0.0-16.0	71820	IND	6L	ARR	ARR	ARR		Tauritz,D	
	0.0-16.0	71003	IND	6M	ARR	ARR	ARR		Wunsch,D	
	0.0-16.0	71453	IND	6N	ARR	ARR	ARR		Yin,Z	
5200	Analysis Of Algorithms	3.0- 3.0	71950	LEC	1A	TTh	08:00 - 09:15 am	TMH	00260	Markowsky,G
	Prerequisite: A "C" or better grade in Comp Sci 2500.									

5201	Object-Oriented Numerical Modeling I	3.0- 3.0	71628	LEC	1A	MWF	01:00 - 01:50 pm	CS	00203	Price,C
	Prerequisites: A "C" or better grade in both Comp Sci 3200 and Comp Sci 1510; a "C" or better grade in one of Math 3108, 3103, 3329.									
5204	Regression Analysis	3.0- 3.0	71167	LEC	1A	MWF	01:00 - 01:50 pm	SHNK	00140	Olbricht,G
	Prerequisites: Math 2222 and one of Stat 3111, 3113, 3115, 3117, or 5643. (Co-listed with Stat 5346)									

Computer Science

5205	Real-Time Systems	3.0- 3.0	73588	LEC	1A	TTh	09:30 - 10:45 am	CS	00209	Guo,Z
	Prerequisites: COMP ENG 3150 or COMP SCI 3800. Co-listed with Comp Eng 5170									

Computer Science

5400	Introduction To Artificial Intelligence	3.0- 3.0	72470	LEC	1A	TTh	02:00 - 03:15 pm	CS	00209	Tauritz,D
	Prerequisite: A "C" or better grade in Comp Sci 2500.									
5406	Interactive Computer Graphics	3.0- 3.0	72814	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00213	Sabharwal,C
	Prerequisite: A "C" or better grade in both Comp Sci 3200 and Comp Sci 2500.									
5601	Security Operations & Program Management	3.0- 3.0	71374	LEC	1A	MWF	02:00 - 02:50 pm	TMH	00260	Lutzen,K
	Prerequisite: A "C" or better grade in all of: operating systems, computer networking, and a writing emphasized course.									
5700	Bioinformatics	3.0- 3.0	73524	LEC	1A	MWF	02:00 - 02:50 pm	CS	00205	Taylor,P
	Prerequisites: A grade of "C" or better in both one of Bio Sci 1113 or Bio Sci 1213 and one of Comp Sci 1570 and Comp Sci 1580 or Comp Sci 1971 and Comp Sci 1981. (Co-listed with Bio Sci 5323)									
5800	Distributed Computing	3.0- 3.0	71411	LEC	1A	TTh	11:00 - 12:15 pm	CS	00203	Das,S
	Prerequisites: A grade of "C" or better in both Comp Sci 3800 and Comp Sci 2500.									
6000	Special Problems	0.0- 6.0	70401	IND	6A	ARR	ARR	ARR		Ercal,F
		0.0- 6.0	70402	IND	6B	ARR	ARR	ARR		Leopold,J
		0.0- 6.0	70403	IND	6C	ARR	ARR	ARR		Madria,S
		0.0- 6.0	70404	IND	6D	ARR	ARR	ARR		McMillin,B
		0.0- 6.0	71114	IND	6E	ARR	ARR	ARR		Sabharwal,C
		0.0- 6.0	70405	IND	6F	ARR	ARR	ARR		Tauritz,D
		0.0- 6.0	70406	IND	6G	ARR	ARR	ARR		Yin,Z
6001	Special Topics	3.0- 3.0	73526	LEC	1A	W	04:00 - 06:30 pm	CS	00203	Fu,Y
	A grade of "C" or better in either COMP SCI 5402, or in both COMP SCI 2300 and one of STAT 3111, STAT 3113, STAT 3115, STAT 3117, or any course that uses one of these as a prerequisite.									
6010	Seminar	1.0- 1.0	71848	RSD	2A	M	10:00 - 10:50 am	CS	00209	Markowsky,G
	Appl Sp & Temp Data Anly									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70415	IND	6A	ARR	ARR	ARR		Jiang,W
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70416	IND	6A	ARR	ARR	ARR		Jiang,W
6099 Research Special Topics	0.0-16.0	72280	IND	6A	ARR	ARR	ARR		Das,S
	0.0-16.0	72281	IND	6B	ARR	ARR	ARR		Ercal,F
	0.0-16.0	72282	IND	6C	ARR	ARR	ARR		Fu,Y
	0.0-16.0	72283	IND	6D	ARR	ARR	ARR		Guo,Z
	0.0-16.0	72284	IND	6E	ARR	ARR	ARR		Hurson,A
	0.0-16.0	72285	IND	6F	ARR	ARR	ARR		Jiang,W
	0.0-16.0	72286	IND	6G	ARR	ARR	ARR		Leopold,J
	0.0-16.0	72287	IND	6H	ARR	ARR	ARR		Lin,D
	0.0-16.0	72288	IND	6J	ARR	ARR	ARR		Madria,S
	0.0-16.0	72289	IND	6K	ARR	ARR	ARR		McMillin,B
	0.0-16.0	72290	IND	6L	ARR	ARR	ARR		Sabharwal,C
	0.0-16.0	72291	IND	6M	ARR	ARR	ARR		Saifullah,A
	0.0-16.0	72292	IND	6N	ARR	ARR	ARR		Sedighsarvestani,S
	0.0-16.0	72293	IND	6P	ARR	ARR	ARR		Silvestri,S
	0.0-16.0	72294	IND	6Q	ARR	ARR	ARR		Tauritz,D
	0.0-16.0	72614	IND	6R	ARR	ARR	ARR		Wunsch,D
	0.0-16.0	72955	IND	6T	ARR	ARR	ARR		Xiong,H
	0.0-16.0	72956	IND	6U	ARR	ARR	ARR		Yin,Z
6102 Model Based Systems Engineering Prerequisites: Graduate Standing. (Co-listed with SYS ENG 6542)	3.0- 3.0	72932	LEC	1A	F	04:00 - 06:30 pm	LIB	000G14	Do,Q
6304 Cloud Computing and Big Data Management Prerequisites: A grade of 'C' or better in both COMP SCI 5800 and either COMP SCI 5300 or COMP SCI 5402.	3.0- 3.0	73527	LEC	1A	Th	04:00 - 06:30 pm	CS	00209	Madria,S
6402 Advanced Topics in Data Mining Prerequisite: A "C" or better grade in Comp Sci 5001 Introduction to Data Mining. (Co-listed with Comp Eng 6302 and Sys Eng 6216)	3.0- 3.0	72816	LEC	1A	MWF	03:00 - 03:50 pm	BERTELS	00B12A	Leopold,J
6405 Clustering Algorithms Prerequisite: At least one graduate course in statistics, data mining, algorithms, computational intelligence, or neural networks, consistent with student's degree program. (Co-listed with Comp Eng 6330, Elec Eng 6340, Sys Eng 6214 and Stat 6239)	3.0- 3.0	73204	LEC	1A	T	07:00 - 09:30 pm	EECH	00239	Wunsch,D
6406 Machine Learning in Computer Vision Prerequisite: A grade of "C" or better in either Comp Sci 5402 or Comp Sci 5404.	3.0- 3.0	73528	LEC	1A	M	04:00 - 06:30 pm	CS	00204	Yin,Z
6600 Formal Methods in Computer Security Prerequisites: A grade of "C" or better in both Comp Sci 3600 and Comp Sci 5200.	3.0- 3.0	73529	LEC	1A	CANCELLED				
6604 Mobile And Sensor Data Management Prerequisite: Comp Sci 4601.	3.0- 3.0	72472	LEC	1A	T	04:00 - 06:30 pm	CS	00209	Madria,S

Economics

1100 Principles Of Microeconomics	3.0- 3.0	70418	LEC	1A	M	06:00 - 09:00 pm	TMH	00199	Park,E
	3.0- 3.0	70419	LEC	1B	TTh	09:30 - 10:45 am	MCNT	00216	Fikru,M
	3.0- 3.0	70420	LEC	1C	TTh	12:30 - 01:45 pm	BCH	00120	Park,E
	3.0- 3.0	71880	LEC	1D	TTh	02:00 - 03:15 pm	EMGT	00103	Zhou,Y
1200 Principles Of Macroeconomics	3.0- 3.0	70421	LEC	1A	MWF	10:00 - 10:50 am	EMGT	00103	Puslenghea,R
	3.0- 3.0	70422	LEC	1B	MWF	02:00 - 02:50 pm	BERTELS	00B10	Puslenghea,R
	3.0- 3.0	71888	LEC	1C	MWF	01:00 - 01:50 pm	MCNT	00216	Puslenghea,R
	3.0- 3.0	72056	LEC	1D	TTh	12:30 - 01:45 pm	BCH	00315	Davis,M

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2001 Special Topics Co-listed with Comp Sci 2001.	3.0- 3.0	73393	LEC	1A	M	04:00 - 06:30 pm	IDE	00202	Bachman,B
2100 Intermediate Microeconomic Theory Prerequisites: Econ 1100 and 1200.	3.0- 3.0	70426	LEC	1A	TTh	01:00 - 02:15 pm	CS	00202	Ichim,A
2200 Intermediate Macroeconomic Theory Prerequisites: Econ 1100 and 1200.	3.0- 3.0	71195	LEC	1A	TTh	11:00 - 12:15 pm	CS	00205	Zhou,Y
2300 Research Methods and Applications in Economics and Business Prerequisites: Econ 1100 or 1200; Math 1140 or higher; Stat 1115 or 3111 or 3113 or 3115 or 3117 or 5643.	3.0- 3.0 3.0- 3.0	 70425	LEC LAB	1A 3A	T Th	09:30 - 10:45 am 09:30 - 10:45 am	BERTELS CS	00B12A 00206	Ichim,A Ichim,A
3001 Special Topics Prerequisites: A grade of "C" or better in COMP SCI 2001 or ECON 2001. Co-listed with Comp Sci 3001.	3.0- 3.0 3.0- 3.0	 73395	LEC LAB	1A 3A	M ARR	07:00 - 09:30 pm ARR	IDE ARR	00202	Bachman,B Bachman,B
3880 Introduction to Sports Economics Prerequisite: Econ 1100 or Econ 1200.	3.0- 3.0	71881	LEC	1A	TTh	09:30 - 10:45 am	CS	00205	Davis,M
4085 Internship Prerequisite: Senior status; must have completed 24 hours in major.	0.0- 6.0	70427	IND	6A	ARR	ARR	ARR		Gelles,G
4130 Network Economy Prerequisite: Econ 1100 or Econ 1200. (Co-listed with IS&T 4257)	3.0- 3.0	71405	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00317	Park,E
4350 Statistical Models in Actuarial Science Prerequisite: Stat 5643 and either Stat 5644 or a 3000-level Stat course. (Co-listed with Stat 5755)	3.0- 3.0	72560	LEC	1A	MWF	09:00 - 09:50 am	ROLLA	000G4	Adekpedjou,A
4430 Cost-Benefit Analysis Prerequisite: Econ 2100.	3.0- 3.0	71764	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00249	Fikru,M
4540 Energy Economics Prerequisite: Econ 2100. (Co-listed with Min Eng 4524)	3.0- 3.0	71911	LEC	1A	MWF	11:00 - 11:50 am	TMH	00249	Gelles,G
5000 Special Problems	0.0- 6.0	73399	IND	6A	ARR	ARR	ARR		Bachman,B
5001 Special Topics Prerequisites: Senior or graduate standing. Co-listed with Eng Mgt 5001.	3.0- 3.0	73400	LEC	1A	T	04:00 - 06:30 pm	IDE	00202	Bachman,B
5337 Financial Mathematics Prerequisites: Math 1215 or Math 1221, Econ 2100 or Econ 2200 or Econ 250 or Econ 321, Stat 3111 or Stat 3113 or Stat 3115 or Stat 3117 or Stat 5643. (Co-listed with Math 5737)	3.0- 3.0	71460	LEC	1A	MWF	12:00 - 12:50 pm	ROLLA	000G4	Gelles,G
5532 Advanced Mining Economics (Co-listed with MIN ENG 5532)	3.0- 3.0	72880	LEC	1A	ARR	ARR			
5540 Advanced Energy Economics Prerequisite: Econ 2100.	3.0- 3.0	71913	LEC	1A	MWF	11:00 - 11:50 am	TMH	00249	Gelles,G

Education

1040 Perspectives In Education	2.0- 2.0	70428	LEC	1A	T	08:00 - 08:50 am	CH	00103	Roberts,R
1104 Teacher Field Experience Prerequisite: Educ 1040.	2.0- 2.0	70429	LAB	3A	T	01:00 - 01:50 pm	CH	00103	Carter,K
1164 Aiding Elementary, Middle And Secondary Schools Prerequisites: Educ 1040 and Educ 1104.	2.0- 2.0	70430	LAB	3A	Th	01:00 - 01:50 pm	CH	00103	Carter,K
1174 School Organization & Adm For Elementary & Secondary Teachers Prerequisites: Educ 1040 and Educ 1104.	2.0- 2.0	70431	LEC	1A	M	05:30 - 07:20 pm	CH	00103	Zalis,A
2001 Special Topics	3.0- 3.0 3.0- 3.0	73342 73455	LEC LEC	1A 1B	TTh Th	11:00 - 12:15 pm 04:00 - 06:30 pm	H-SS BCH	00101 00215	Schwartz,M Croft,L
2102 Educational Psychology Prerequisite: Psych 1101. (Co-listed with Psych 2300)	3.0- 3.0	72562	LEC	1A	M	04:00 - 06:30 pm	H-SS	00104	Spooner,P
2203 Problems Of Teaching Mathematics	3.0- 3.0	73236	LEC	1A	TTh	02:00 - 03:15 pm	CH	00103	Schwartz,M
3216 Teaching Reading in Content Area	3.0- 3.0	71304	LEC	1A	TTh	09:30 - 10:45 am	H-SS	00102	Long,D

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3280 Teaching Methods And Skills In The Content Areas Prerequisites: Educ 1040 and 1104.	6.0- 6.0	70432	LEC	1A	Th	04:00 - 05:45 pm	CH	00103	Davis,M
			LEC	1A	T	04:00 - 07:30 pm	CH	00103	
4298 Student Teaching Seminar Prerequisites: Meet all requirements for student teaching and concurrently be enrolled in student teaching.	1.0- 1.0	70433	LEC	1A	F	09:00 - 01:00 pm	CH	00214	
Class meets only four times in a semester. Actual dates to be assigned by instructor.									
4299 Student Teaching Prerequisites: Professional standing and arrangements made previous semester.	12.0-12.0	70434	LEC	1A	ARR	ARR	ARR		Carter,K

Electrical Engineering

2100 Circuits I Prerequisites: Math 1215 (or 1221) with a grade of "C" or better. Students should enroll in Elec Eng 2100 and Elec Eng 2101 simultaneously.	3.0- 3.0	70435	LEC	1A	MWF	08:00 - 08:50 am	EECH	00104	Wu,C	
	3.0- 3.0	71515	LEC	1B	MWF	09:00 - 09:50 am	EECH	00104	Shrestha,B	
	3.0- 3.0	70436	LEC	1C	TTh	11:00 - 12:15 pm	EECH	00101	Donnell,K	
2101 Circuit Analysis Laboratory I Prerequisite: Preceded or accompanied by Elec Eng 2100. A student who drops Elec Eng 2100 must also drop Elec Eng 2101.	1.0- 1.0	70437	LAB	3A	M	06:10 - 08:00 pm	EECH	00203	Shrestha,B	
	Communication Emphasized									
	1.0- 1.0	73264	LAB	3B	T	08:00 - 09:50 am	EECH	00203	Shrestha,B	
	Communication Emphasized									
	1.0- 1.0	71959	LAB	3C	T	12:30 - 02:20 pm	EECH	00203	Shrestha,B	
	Communication Emphasized									
	1.0- 1.0	70438	LAB	3D	T	02:30 - 04:20 pm	EECH	00203	Shrestha,B	
	Communication Emphasized									
	1.0- 1.0	70439	LAB	3E	W	01:00 - 02:50 pm	EECH	00203	Shrestha,B	
	Communication Emphasized									
2120 Circuits II Prerequisites: Elec Eng 2100 and Math 2222 each with grade of "C" or better; passing the Elec Eng Advancement Exam I.	1.0- 1.0	71485	LAB	3F	W	03:00 - 04:50 pm	EECH	00203	Shrestha,B	
	Communication Emphasized									
	1.0- 1.0	72463	LAB	3G	CANCELLED					
	1.0- 1.0	71516	LAB	3H	Th	12:30 - 02:20 pm	EECH	00203	Shrestha,B	
	Communication Emphasized									
	1.0- 1.0	71517	LAB	3J	Th	02:30 - 04:20 pm	EECH	00203	Shrestha,B	
	Communication Emphasized									
	1.0- 1.0	73265	LAB	3K	CANCELLED					
	2200 Introduction to Electronic Devices 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	70440	LEC	1A	WF	08:00 - 08:50 am	EECH	00102	Shrestha,B
		Communication Emphasized								
3.0- 3.0		70441	LEC	1B	WF	09:00 - 09:50 am	EECH	00102	Kaur,A	
Communication Emphasized										
2201 Electronic Devices Laboratory Prerequisites: Elec Eng 2100, Elec Eng 2101, and Physics 2135 each with grade of "C" or better; passing the Elec Eng Advancement Exam I. Preceded or accompanied by Elec Eng 2200. This lab also meets in EECH 105 or EECH 106 when specified by the instructor.	3.0- 3.0	70442	LEC	1C	WF	01:00 - 01:50 pm	BCH	00315	Shrestha,B	
	Communication Emphasized									
	3.0- 3.0	71393	LEC	1A	MWF	10:00 - 10:50 am	EECH	00102	Kim,C	
2800 Electrical Circuits Prerequisites: Math 3304 or 3329; Physics 2135.	3.0- 3.0	71394	LEC	1B	TTh	11:00 - 12:15 pm	EECH	00102	Watkins,S	
	3.0- 3.0	71395	LEC	1C	TTh	02:00 - 03:15 pm	EECH	00104	Hwang,C	
	1.0- 1.0	71513	LAB	3A	M	01:00 - 02:50 pm	EECH	00203	Kim,C	
	1.0- 1.0	71396	LAB	3B	M	03:00 - 04:50 pm	EECH	00203	Kim,C	
	1.0- 1.0	71397	LAB	3C	T	06:10 - 08:00 pm	EECH	00203	Kim,C	
	1.0- 1.0	71398	LAB	3D	W	08:00 - 09:50 am	EECH	00203	Kim,C	
	1.0- 1.0	71514	LAB	3E	W	06:10 - 08:00 pm	EECH	00203	Kim,C	
	1.0- 1.0	71399	LAB	3F	F	01:00 - 02:50 pm	EECH	00203	Kim,C	
	1.0- 1.0	71400	LAB	3G	F	03:00 - 04:50 pm	EECH	00203	Kim,C	
	1.0- 1.0	71931	LAB	3H	M	08:00 - 09:50 am	EECH	00203	Kim,C	
	1.0- 1.0	72667	LAB	3J	F	05:00 - 06:50 pm	EECH	00203	Kim,C	
	1.0- 1.0	73102	LAB	3K	F	08:00 - 09:50 am	EECH	00203	Kim,C	
	1.0- 1.0	73605	LAB	3L	Th	06:10 - 08:00 pm	EECH	00203	Kim,C	
	3000 Special Problems	3.0- 3.0	70456	LEC	1A	WF	11:00 - 11:50 am	EECH	00G31	Kaur,A
Communication Emphasized										
	3.0- 3.0	71353	LEC	1B	WF	01:00 - 01:50 pm	EECH	00G31	Kaur,A	
	Communication Emphasized									
	1.0- 6.0	70443	IND	6A	ARR	ARR	ARR		Drewniak,J	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3002 Cooperative Engineering Training Prerequisite: Consent of the Electrical and Computer Engineering Department required.	1.0- 1.0	70444	IND	6A	ARR	ARR	ARR		Ferdowsi,M
3100 Electronics I Prerequisites: Elec Eng 2120, Elec Eng 2200, Elec Eng 2201, and Comp Eng 2210 each with a grade of "C" or better. Passing grade on Elec Eng Advancement Exam II and III. Elec Eng 3101 is a corequisite.	3.0- 3.0 3.0- 3.0	70453 71963	LEC LEC	1A 1B	TTh MWF	11:00 - 12:15 pm 09:00 - 09:50 am	CS CS	00216 00209	Khilkevich,V Odun-Ayo,T
3101 Electronics I Laboratory 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 3100 is a corequisite.	1.0- 1.0	71962	LAB	3A	M	01:00 - 02:50 pm	EECH	00204	Khilkevich,V
									Communication Emphasized
	1.0- 1.0	70454	LAB	3B	M	03:00 - 04:50 pm	EECH	00204	Khilkevich,V
									Communication Emphasized
	1.0- 1.0	73266	LAB	3C	M	06:10 - 08:00 pm	EECH	00204	Khilkevich,V
									Communication Emphasized
	1.0- 1.0	73267	LAB	3F	T	06:10 - 08:00 pm	EECH	00204	Khilkevich,V
									Communication Emphasized
	1.0- 1.0	72787	LAB	3H	Th	02:30 - 04:20 pm	EECH	00204	Khilkevich,V
									Communication Emphasized
	1.0- 1.0	73606	LAB	3J	W	06:10 - 08:00 pm	EECH	00204	Khilkevich,V
									Communication Emphasized
3120 Electronics II Prerequisites: Elec Eng 3100 and Elec Eng 3101 each with a grade of "C" or better. Elec Eng 3121 is optional, but recommended.	3.0- 3.0	71818	LEC	1A	MWF	02:00 - 02:50 pm	EECH	00103	Moss,R
3121 Electronics II Laboratory Prerequisites: Elec Eng 3100 and Elec Eng 3101 each with a grade of "C" or better. Elec Eng 3120 is a corequisite.	1.0- 1.0	73268	LAB	3A	CANCELLED				
3250 Electronic And Photonic Devices Prerequisite: Elec Eng 2200 and Elec Eng 2120 each with grade of "C" or better; passing the Elec Eng Advancement Exams II and III.	3.0- 3.0	70449	LEC	1A	MWF	11:00 - 11:50 am	EECH	00102	Kim,C
3320 Control Systems Prerequisites: ELEC ENG 2120 and MATH 3304 each with a grade of "C" or better; passing the ELEC ENG Advancement Exam II; accompanied by ELEC ENG 3321.	3.0- 3.0 3.0- 3.0	71204 73269	LEC LEC	1A 1B	TTh TTh	08:00 - 09:15 am 02:00 - 03:15 pm	EECH EECH	00103 00239	Modares,H Acar,L
3321 Control Systems Laboratory Prerequisites: ELEC ENG 2120 and MATH 3304 with a grade of "C" or better; passing the ELEC ENG Advancement Exam II; preceded or accompanied by ELEC ENG 3320.	1.0- 1.0 1.0- 1.0 1.0- 1.0 1.0- 1.0 1.0- 1.0	72130 72535 72536 72563 73607	LAB LAB LAB LAB LAB	3A 3B 3C 3D 3E	M Th F T M	01:00 - 02:50 pm 02:30 - 04:20 pm 01:00 - 02:50 pm 05:00 - 06:50 pm 05:00 - 06:50 pm	EECH EECH EECH EECH EECH	00205 00205 00205 00205 00205	Modares,H Modares,H Modares,H Modares,H Modares,H
3340 Basic Programmable Logic Controllers Prerequisite: Preceded or accompanied by either Elec Eng 2120 or Elec Eng 2800. Exams are scheduled for 8:00-9:15am on Feb. 24, April 2, and May 5. Students with a conflicting lecture class at TR 8:00-9:15am will schedule the course exams at another time.	3.0- 3.0 3.0- 3.0 3.0- 3.0 3.0- 3.0 3.0- 3.0 3.0- 3.0 3.0- 3.0	 70451 70452 71580 71918 73130 73658	LEC LAB LAB LAB LAB LAB LAB	1A 3A 3B 3C 3D 3E 3F	TTh M T T W ARR T	08:00 - 09:15 am 03:00 - 04:50 pm 12:00 - 01:50 pm 02:30 - 04:20 pm 01:00 - 02:50 pm ARR 09:30 - 11:20 am	CS EECH EECH EECH EECH EECH EECH	00209 00G22 00G22 00G22 00G22 00G22 00G22	Erickson,K Corman,C Corman,C Andrade,K Andrade,K Erickson,K Andrade,K
3410 Digital Signal Processing Prerequisites: ELEC ENG 2120 with a grade of "C" or better; passing the ELEC ENG Advancement Exam II.	3.0- 3.0 3.0- 3.0	71687 71519	LEC LEC	1A 1B	MWF MWF	08:00 - 08:50 am 09:00 - 09:50 am	EECH EECH	00103 00G31	Swift,T Swift,T
3411 Discrete Linear Systems Laboratory	1.0- 1.0 1.0- 1.0	73273 71520	LAB LAB	3C 3E	Th W	02:30 - 04:20 pm 03:00 - 04:50 pm	EE EE	00106 00106	Kosbar,K Kosbar,K

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3430 Digital Communications I Prerequisites: ELEC ENG 2120 with a grade of "C" or better; passing the ELEC ENG Advancement Exam II; accompanied by ELEC ENG 3431.	3.0- 3.0	72789	LEC	1A	MWF	08:00 - 08:50 am	EECH	00101	Kosbar,K
	3.0- 3.0	72790	LEC	1B	MWF	09:00 - 09:50 am	EECH	00101	Kosbar,K
3431 Digital Communication Laboratory Prerequisites: ELEC ENG 2120 and ELEC ENG 2101 with a grade of "C" or better; passing the ELEC ENG Advancement Exam II; preceded or accompanied by ELEC ENG 3430.	1.0- 1.0	72791	LAB	3A	T	12:30 - 02:20 pm	EECH	00205	Kosbar,K
	1.0- 1.0	72792	LAB	3B	T	02:30 - 04:30 pm	EECH	00205	Kosbar,K
	1.0- 1.0	72793	LAB	3C	W	01:00 - 02:50 pm	EECH	00205	Kosbar,K
	1.0- 1.0	72794	LAB	3D	W	03:00 - 04:50 pm	EECH	00205	Kosbar,K
	1.0- 1.0	73105	LAB	3E	Th	05:00 - 06:50 pm	EECH	00205	Kosbar,K
	1.0- 1.0	73608	LAB	3F	W	05:00 - 06:50 pm	EECH	00205	Kosbar,K
3440 Digital Communications II Prerequisites: ELEC ENG 3430 with a grade of "C" or better.	3.0- 3.0	73432	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00102	Zheng, Y
3500 Electromechanics Prerequisites: Physics 2135 with a grade of "C" or better; Elec Eng 2120 with a grade of "C" or better; passing grade on the Elec Eng Advancement Exam II.	3.0- 3.0	70445	LEC	1A	TTh	08:00 - 09:15 am	EECH	00104	Kimball,J
3501 Electromechanics Laboratory Prerequisites: Elec Eng 2120 with a grade of "C" or better; passing grade on the Elec Eng Advancement Exam II. Preceded or accompanied by Elec Eng 3500.	1.0- 1.0	70447	LAB	3A	T	12:30 - 02:20 pm	EECH	00G12	Kimball,J
	1.0- 1.0	71518	LAB	3B	W	10:00 - 11:50 am	EECH	00G12	Kimball,J
3540 Power System Design And Analysis Prerequisites: Elec Eng 2120 with a grade of "C" or better; passing grade on the Elec Eng Advancement Exam II.	1.0- 1.0	71960	LAB	3C	CANCELLED				
	1.0- 1.0	73274	LAB	3D	CANCELLED				
3541 Power System Design And Analysis Laboratory Prerequisites: Elec Eng 2120 with a grade of "C" or better; passing grade on the Elec Eng Advancement Exam II. Preceded or accompanied by Elec Eng 3540.	3.0- 3.0	70446	LEC	1A	MWF	01:00 - 01:50 pm	EECH	00102	Bo,R
3541 Power System Design And Analysis Laboratory Prerequisites: Elec Eng 2120 with a grade of "C" or better; passing grade on the Elec Eng Advancement Exam II. Preceded or accompanied by Elec Eng 3540.	1.0- 1.0	71569	LAB	3A	M	05:00 - 06:50 pm	EECH	00G12	Ferdowski,M
	1.0- 1.0	70448	LAB	3B	Th	12:30 - 02:20 pm	EECH	00G12	Ferdowski,M
3541 Power System Design And Analysis Laboratory Prerequisites: Elec Eng 2120 with a grade of "C" or better; passing grade on the Elec Eng Advancement Exam II. Preceded or accompanied by Elec Eng 3540.									
	1.0- 1.0	71961	LAB	3C	F	10:00 - 11:50 am	EECH	00G12	Ferdowski,M
3600 Electromagnetics Prerequisites: Elec Eng 2120, Elec Eng 2101, Physics 2135, and Math 3304 each with a grade of "C" or better. Passing grade on Elec Eng Advancement Exam II.	4.0- 4.0	70455	LEC	1A	TTh	08:00 - 09:15 am	EECH	00102	Zoughi,R
	4.0- 4.0	71676	LEC	1B	MWF	10:00 - 10:50 am	FUL	00107A	Wu,C
4000 Special Problems Prerequisite: Consent of instructor required.									
	0.0- 6.0	70458	IND	6A	ARR	ARR	ARR		Wu,C
	0.0- 6.0	70457	IND	6B	ARR	ARR	ARR		Zheng, Y
4096 Electrical Engineering Senior Project I Prerequisites: Comp Eng 2210, Econ 1100 or 1200, English 3560, at least 3 of the following: Elec Eng 3500, Elec Eng 3540, Elec Eng 3320, Elec Eng 3420, Elec Eng 3600, Elec Eng 3100.	0.0- 6.0	73661	IND	6C	ARR	ARR	ARR		Kosbar,K
	1.0- 1.0		RSD	2A	M	12:00 - 12:50 pm	EECH	00G31	Woodley,R
	1.0- 1.0		RSD	2B	M	12:00 - 12:50 pm	EECH	00G31	Woodley,R
	1.0- 1.0	70474	LAB	3A	T	03:30 - 04:20 pm	EECH	00101	Woodley,R
4097 Electrical Engineering Senior Project II Prerequisite: Elec Eng 4096 with a grade of "C" or better, Stat 3117, Sp&M S 1185.	1.0- 1.0	70475	LAB	3B	W	03:00 - 03:50 pm	EECH	00104	Ferguson,I
4097 Electrical Engineering Senior Project II Prerequisite: Elec Eng 4096 with a grade of "C" or better, Stat 3117, Sp&M S 1185.	3.0- 3.0	70476	LAB	3A	MW	03:00 - 04:50 pm	EECH	00G31	Donnell,K
	3.0- 3.0	70477	LAB	3B	TTh	03:00 - 04:50 pm	EECH	00G31	Ferguson,I
4099 Undergraduate Research Prerequisite: Consent of instructor.	0.0- 6.0	70462	IND	6A	ARR	ARR	ARR		Crow,M
	0.0- 6.0	71364	IND	6B	ARR	ARR	ARR		Drewniak,J
	0.0- 6.0	70463	IND	6C	ARR	ARR	ARR		Erickson,K
	0.0- 6.0	70464	IND	6D	ARR	ARR	ARR		Fan,J
	0.0- 6.0	70465	IND	6E	ARR	ARR	ARR		Kimball,J
	0.0- 6.0	70466	IND	6F	ARR	ARR	ARR		Kosbar,K
	0.0- 6.0	70467	IND	6G	ARR	ARR	ARR		Moss,R
	0.0- 6.0	70468	IND	6H	ARR	ARR	ARR		Sarangapani,J
	0.0- 6.0	70469	IND	6J	ARR	ARR	ARR		Watkins,S

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	0.0- 6.0	70470	IND	6K	ARR	ARR	ARR		Wu,C	
	0.0- 6.0	71006	IND	6M	ARR	ARR	ARR		Xiao,C	
	0.0- 6.0	70471	IND	6N	ARR	ARR	ARR		Zheng, Y	
	0.0- 6.0	70472	IND	6P	ARR	ARR	ARR		Zoughi,R	
	0.0- 6.0	71174	IND	6Q	ARR	ARR	ARR			
	0.0- 6.0	71819	IND	6R	ARR	ARR	ARR			
5000	Special Problems	0.0- 6.0	72651	IND	6A	ARR	ARR		Watkins,S	
5040	Oral Examination	0.0- 0.0	70505	IND	6A	ARR	ARR		Beetner,D	
	Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70506	IND	6B	ARR	ARR		Beetner,D	
5099	Special Research And Thesis	0.0-15.0	70483	IND	6A	ARR	ARR		Acar,L	
		0.0-15.0	70484	IND	6B	ARR	ARR		Beetner,D	
		0.0-15.0	70485	IND	6F	ARR	ARR		Cetinkaya,E	
		0.0-15.0	70486	IND	6G	ARR	ARR		Choi,M	
		0.0-15.0	70487	IND	6H	ARR	ARR		Crow,M	
		0.0-15.0	70488	IND	6K	ARR	ARR		Donnell,K	
		0.0-15.0	71359	IND	6L	ARR	ARR		Drewniak,J	
		0.0-15.0	71120	IND	6M	ARR	ARR		Erickson,K	
		0.0-15.0	71122	IND	6N	ARR	ARR		Fan,J	
		0.0-15.0	70489	IND	6P	ARR	ARR		Ferdowski,M	
		0.0-15.0	70490	IND	6Q	ARR	ARR		Huang,J	
		0.0-15.0	70491	IND	6T	ARR	ARR		Hwang,C	
		0.0-15.0	70492	IND	6U	ARR	ARR		Khilkevich,V	
		0.0-15.0	70493	IND	6V	ARR	ARR		Kim,C	
		0.0-15.0	70494	IND	6W	ARR	ARR		Kimball,J	
		0.0-15.0	70495	IND	6X	ARR	ARR		Kosbar,K	
		0.0-15.0	70496	IND	6Z	ARR	ARR		Moss,R	
		0.0-15.0	70497	IND	6AA	ARR	ARR		Pommerenke,D	
		0.0-15.0	70498	IND	6CC	ARR	ARR		Sarangapani,J	
		0.0-15.0	70499	IND	6DD	ARR	ARR		Sedighsarvestani,S	
		0.0-15.0	70500	IND	6EE	ARR	ARR		Shamsi,P	
		0.0-15.0	70501	IND	6FF	ARR	ARR		Stanley,R	
		0.0-15.0	70502	IND	6GG	ARR	ARR		Watkins,S	
		0.0-15.0	70503	IND	6HH	ARR	ARR		Wu,C	
		0.0-15.0	71822	IND	6JJ	ARR	ARR		Wunsch,D	
		0.0-15.0	71894	IND	6KK	ARR	ARR		Xiao,C	
		0.0-15.0	72043	IND	6LL	ARR	ARR		Xiao,H	
		0.0-15.0	72072	IND	6MM	ARR	ARR		Zawodniok,M	
		0.0-15.0	72296	IND	6NN	ARR	ARR		Zheng, Y	
		0.0-15.0	72316	IND	6PP	ARR	ARR		Zoughi,R	
5150	Photovoltaic Systems Engineering	3.0- 3.0	73275	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00121	Kimball,J
	Prerequisite: Senior or graduate standing in Science or Engineering.									
5300	Digital Control	3.0- 3.0	70459	LEC	1A	TTh	11:00 - 12:15 pm	CS	00209	Acar,L
	Prerequisite: Elec Eng 3320.									
5345	PLC Motion Control	3.0- 3.0		LEC	1A	MWF	08:00 - 08:50 am	CS	00209	Erickson,K
	Prerequisites: Elec Eng 3340.									
		3.0- 3.0	73615	LAB	3A	M	01:00 - 02:50 pm	EECH	00G22	Erickson,K
		3.0- 3.0	73616	LAB	3B	W	03:00 - 04:50 pm	EECH	00G22	Riney,Z
		3.0- 3.0	73617	LAB	3C	Th	12:00 - 01:50 pm	EECH	00G22	Riney,Z
5350	Plantwide Process Control	3.0- 3.0	71965	LEC	1A	TTh	02:00 - 03:15 pm	EECH	00103	Erickson,K
	Prerequisites: Chem Eng 4110, Elec Eng 3320, Elec Eng 3340 or graduate standing. (Co-listed with Chem Eng 5190)									
5360	System Simulation And Identification	3.0- 3.0	72795	LEC	1A	Th	04:00 - 06:30 pm	FUL	00107A	Dierks,T
	Prerequisite: Elec Eng 3320.									
5370	Introduction to Neural Networks and Applications	3.0- 3.0	72123	LEC	1A	T	04:00 - 06:30 pm	BERTELS	00B12A	Dagli,C
	Prerequisites: Graduate Standing. (Co-listed with Sys Eng 5212)									
5420	Communications Systems II	3.0- 3.0	70460	LEC	1A	W	04:00 - 06:30 pm	BERTELS	00B12A	Potter,C
	Prerequisite: Elec Eng 3430.									
5500	Electric Drive Systems	3.0- 3.0	73433	LEC	1A	MWF	10:00 - 10:50 am	EECH	00239	Shamsi,P
	Prerequisites: Elec Eng 3500 and Elec Eng 3320.									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5521 Power Electronics Laboratory Prerequisite: Co-requisite Elec Eng 5520.	2.0- 2.0	73278	LAB	3A	MW	03:00 - 04:50 pm	EECH	00G12	Ferdowsi,M
5570 Extra High Voltage Engineering Prerequisite: Senior standing.	3.0- 3.0	73279	LEC	1A	MWF	11:00 - 11:50 am	BERTELS	00B12B	Shamsi,P
5620 Signal Integrity in High-Speed Digital & Mixed Signal Design Prerequisites: Elec Eng 3600 or Comp Eng 3150, and Senior standing. (Co-listed with Comp Eng 5620)	3.0- 3.0	70461	LEC	1A	MWF	10:00 - 10:50 am	EECH	00103	Drewniak,J
5670 Nondestructive Testing Prerequisite: Physics 24 or 25. (Co-listed with Met Eng 5510)	3.0- 3.0	71563	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00111	Zoughi,R
6000 Special Problems	0.0- 6.0	70478	IND	6A	ARR	ARR	ARR		Crow,M
	0.0- 6.0	70479	IND	6B	ARR	ARR	ARR		Drewniak,J
	0.0- 6.0	70480	IND	6C	ARR	ARR	ARR		Ferdowsi,M
	0.0- 6.0	70481	IND	6D	ARR	ARR	ARR		Khilkevich,V
	0.0- 6.0	70482	IND	6E	ARR	ARR	ARR		Kim,C
	0.0- 6.0	71255	IND	6F	ARR	ARR	ARR		Kimball,J
	0.0- 6.0	71265	IND	6G	ARR	ARR	ARR		Kosbar,K
	0.0- 6.0	71365	IND	6H	ARR	ARR	ARR		Pommerenke,D
	0.0- 6.0	71285	IND	6J	ARR	ARR	ARR		Sarangapani,J
	0.0- 6.0	71483	IND	6K	ARR	ARR	ARR		Sedighsarvestani,S
	0.0- 6.0	71579	IND	6L	ARR	ARR	ARR		Shamsi,P
	0.0- 6.0	73544	IND	6M	ARR	ARR	ARR		Watkins,S
6001 Special Topics Prerequisites: Elec Eng 6300.	3.0- 3.0	73434	LEC	1A	TTh	09:30 - 10:45 am	BCH	00215	Sarangapani,J
									Adaptive Control
	3.0- 3.0	73435	LEC	1B	CANCELLED				
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70507	IND	6A	ARR	ARR	ARR		Kim,C
6085 Internship DE students only.	0.0-15.0	70504	IND	6A	ARR	ARR	ARR		
6099 Special Research And Thesis	0.0-15.0	72315	IND	6A	ARR	ARR	ARR		Acar,L
	0.0-15.0	72317	IND	6B	ARR	ARR	ARR		Beetner,D
	0.0-15.0	72319	IND	6C	ARR	ARR	ARR		Cetinkaya,E
	0.0-15.0	72320	IND	6D	ARR	ARR	ARR		Choi,M
	0.0-15.0	72339	IND	6E	ARR	ARR	ARR		Crow,M
	0.0-15.0	72340	IND	6F	ARR	ARR	ARR		Donnell,K
	0.0-15.0	72341	IND	6G	ARR	ARR	ARR		Drewniak,J
	0.0-15.0	72342	IND	6H	ARR	ARR	ARR		Erickson,K
	0.0-15.0	72343	IND	6J	ARR	ARR	ARR		Fan,J
	0.0-15.0	72344	IND	6K	ARR	ARR	ARR		Ferdowsi,M
	0.0-15.0	72345	IND	6L	ARR	ARR	ARR		Ferguson,I
	0.0-15.0	72346	IND	6M	ARR	ARR	ARR		Huang,J
	0.0-15.0	72347	IND	6N	ARR	ARR	ARR		Khilkevich,V
	0.0-15.0	72348	IND	6P	ARR	ARR	ARR		Kim,C
	0.0-15.0	72349	IND	6Q	ARR	ARR	ARR		Kimball,J
	0.0-15.0	72350	IND	6R	ARR	ARR	ARR		Kosbar,K
	0.0-15.0	72351	IND	6T	ARR	ARR	ARR		Moss,R
	0.0-15.0	72352	IND	6U	ARR	ARR	ARR		Pommerenke,D
	0.0-15.0	72353	IND	6V	ARR	ARR	ARR		Sarangapani,J
	0.0-15.0	72354	IND	6W	ARR	ARR	ARR		Sedighsarvestani,S
	0.0-15.0	72355	IND	6X	ARR	ARR	ARR		Shamsi,P
	0.0-15.0	72356	IND	6Y	ARR	ARR	ARR		Stanley,R
	0.0-15.0	72357	IND	6Z	ARR	ARR	ARR		Watkins,S
	0.0-15.0	72358	IND	6AA	ARR	ARR	ARR		Wu,C
	0.0-15.0	72359	IND	6BB	ARR	ARR	ARR		Wunsch,D
	0.0-15.0	72360	IND	6CC	ARR	ARR	ARR		Xiao,C
	0.0-15.0	72361	IND	6DD	ARR	ARR	ARR		Zawodniok,M
	0.0-15.0	72362	IND	6EE	ARR	ARR	ARR		Zheng,Y
	0.0-15.0	72363	IND	6FF	ARR	ARR	ARR		Zoughi,R
	0.0-15.0	73549	IND	6GG	ARR	ARR	ARR		Hwang,C
	0.0-15.0	73578	IND	6HH	ARR	ARR	ARR		Modares,H

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6150 Signal Integrity, High Speed Digital and RF Design Laboratory Prerequisite: Elec Eng 3600.	3.0- 3.0	73437	LAB	3A	TTh	03:30 - 04:45 pm	HYPOINT	00205	Pommerenke,D
6290 Advanced Topics in Optics and Devices Prerequisite: Graduate Standing.	3.0- 3.0	73436	LEC	1A	TTh	09:30 - 10:45 am	EECH	00104	Watkins,S
6310 Optimal Control And Estimation Prerequisite: Elec Eng 6300.	3.0- 3.0	71967	LEC	1A	TTh	11:00 - 12:15 pm	EECH	00239	Sarangapani,J
6340 Clustering Algorithms Prerequisite: At least one graduate course in statistics, data mining, algorithms, computational intelligence, or neural networks, consistent with student's degree program. (Co-listed with Comp Eng 6330, Sys Eng 6214, Comp Sci 6405 and Stat 6239)	3.0- 3.0	73203	LEC	1A	T	07:00 - 09:30 pm	EECH	00239	Wunsch,D
6430 Wireless Ad hoc and Sensor Networks Prerequisite: Comp Eng 5430 or Comp Eng 5420 or equivalent. (Co-listed with Comp Eng 6420 and Sys Eng 6324)	3.0- 3.0	73207	LEC	1A	MWF	08:00 - 08:50 am	FUL	00107A	Zawodniok,M
6510 Advanced Electric Drive Vehicles Prerequisite: Elec Eng 5500 or Elec Eng 5520.	3.0- 3.0	73281	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00104	Ferdowski,M
6570 Surge Phenomena In Power Systems Prerequisite: Elec Eng 5540.	3.0- 3.0	73282	LEC	1A	TTh	09:30 - 10:45 am	EECH	00239	Nauert,P
6600 Advanced Electromagnetics I Prerequisite: Elec Eng 3600 or equivalent undergraduate electromagnetics course.	3.0- 3.0	72465	LEC	1A	MWF	03:00 - 03:50 pm	HYPOINT	00205	Drewniak,J

Engineering Management

1100 Practical Concepts for Technical Managers	1.0- 1.0	71379	LEC	1A	ARR	ARR	ARR		Grasman,K
	1.0- 1.0	71380	LEC	1B	ARR	ARR	ARR		Grasman,K
1210 Economic Analysis of Engineering Projects Prerequisite: Math 1214.	2.0- 2.0	71415	LEC	1A	ARR	ARR	ARR		Grasman,K
			No required classroom meetings other than common exams scheduled for Feb. 27th and April 10th from 6:00-8:00 pm.						
			See 'Notes' for Evening Exams						
	2.0- 2.0	71290	LEC	1B	ARR	ARR	ARR		Grasman,K
			No required classroom meetings other than common exams scheduled for Feb. 27th and April 10th from 6:00-8:00 pm.						
			See 'Notes' for Evening Exams						
2002 Cooperative Engineering Training	0.0- 6.0	70508	IND	6A	ARR	ARR	ARR		Raper,S
2110 Managing Engineering And Technology Prerequisite: A grade of "C" or better is required in this course to meet Engineering Management degree requirements.	3.0- 3.0	71919	LEC	1A	MWF	10:00 - 10:50 am	CS	00207	Moradpour,S
	3.0- 3.0	70509	LEC	1B	TTh	09:30 - 10:45 am	IDE	00206	Spurlock,D
2211 Engineering Accounting and Finance Prerequisite: Eng Mgt 1210, or understanding of engineering economic principles.	3.0- 3.0	71449	LEC	1A	TTh	03:30 - 04:45 pm	MCNT	00212	Hodges,S
	3.0- 3.0	72451	LEC	1B	TTh	02:00 - 03:15 pm	MCNT	00212	Hodges,S
2310 Introduction to System Engineering Prerequisite: Math 1208 or Math 1214.	3.0- 3.0	72023	LEC	1A	TTh	08:00 - 09:15 am	H-SS	000G5	Corns,S
	3.0- 3.0	73343	LEC	1B	TTh	09:30 - 10:45 am	H-SS	00101	Corns,S
3310 Operations and Production Management Prerequisites: Eng Mgt 2110.	3.0- 3.0	70512	LEC	1A	MWF	09:00 - 09:50 am	EMGT	00102	Sun,Z
3320 Introduction to Project Management Prerequisites: Junior or above standing.	3.0- 3.0	71291	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00250	Schuman,J
	3.0- 3.0	73590	LEC	1B	TTh	11:00 - 12:15 pm	EMGT	00201	Grantham,K
3510 Marketing Management Prerequisites: Preceded or accompanied by Eng Mgt 2110.	3.0- 3.0	70510	LEC	1A	MWF	11:00 - 11:50 am	EMGT	00201	Long,S
4099 Undergraduate Research	0.0- 6.0	70514	IND	6A	ARR	ARR	ARR		Raper,S

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4110 General Management-Design and Integration Prerequisites: Eng Mgt 2210, 2211; preceded or accompanied by Eng Mgt 3310, 3320, 4710, and senior standing.	3.0- 3.0	70511	LEC	1A	TTh	09:30 - 10:45 am	FUL	00220	Raper,S
4310 Materials Handling and Plant Layout Prerequisites: Junior standing.	3.0- 3.0		LEC	1A	MW	01:00 - 01:50 pm	BCH	00314	Gosavi,A
4312 Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing. (Co-listed with Chem Eng 5130)	3.0- 3.0	71277	LAB	3A	W	02:00 - 03:50 pm	SHNK	00140	Gosavi,A
4330 Human Factors Prerequisite: Psych 1101. (Co-listed with Psych 4710)	3.0- 3.0	71651	LEC	1A	M	07:00 - 09:30 pm	CS	00209	Schmidt,M
4710 Quality Prerequisites: Stat 3115 or Stat 3117.	3.0- 3.0	72116	LEC	1A	TTh	09:30 - 10:45 am	EECH	00101	Murray,S
4907 Engineering Management Senior Design Prerequisites: Preceded or accompanied by Eng Mgt 4110.	3.0- 3.0	71381	LEC	1A	TTh	02:00 - 03:15 pm	EMGT	00201	Cudney,E
5001 Special Topics Prerequisites: Senior or graduate standing. Co-listed with Econ 5001.	3.0- 3.0	71452	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00315	Raper,S
5111 Management for Engineers and Scientists Prerequisite: Graduate standing.	3.0- 3.0	73401	LEC	1A	T	04:00 - 06:30 pm	IDE	00202	Bachman,B
5210 Economic Decision Analysis Prerequisite: Graduate students without previous course in engineering economy because of partial overlap.	3.0- 3.0	71524	LEC	1A	W	04:00 - 06:30 pm	LIB	000G14	Spurlock,D
5212 Intelligent Investing Prerequisites: Senior or Graduate Standing.	3.0- 3.0	71088	LEC	1A	W	07:00 - 09:30 pm	BERTELS	00B12B	Materla,T
5312 Advanced Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing.	3.0- 3.0	73510	LEC	1A	M	04:00 - 06:30 pm	LIB	000G14	Enke,D
5313 Packaging Management	3.0- 3.0	72118	LEC	1A	M	07:00 - 09:30 pm	CS	00209	Schmidt,M
5320 Project Management Prerequisite: Graduate Standing	3.0- 3.0	73366	LEC	1A	MWF	12:00 - 12:50 pm	EMGT	00103	Raper,S
5410 Industrial System Simulation Prerequisite: Stat 3115 or Stat 3117.	3.0- 3.0	71021	LEC	1A	M	04:00 - 06:30 pm	BERTELS	00B12B	Berry,R
5411 Engineering Design Optimization Prerequisite: Math 3304 or 3329.	3.0- 3.0	72721	LEC	1A	MWF	08:00 - 08:50 am	BCH	00313	Sun,Z
5412 Operations Management Science Prerequisites: Graduate standing.	3.0- 3.0	71667	LEC	1A	CANCELLED				
5512 Legal Environment Prerequisites: Senior or graduate standing.	3.0- 3.0	71417	LEC	1A	T	07:00 - 09:30 pm	TMH	00260	Konur,D
5515 Integrated Product And Process Design Prerequisites: Junior or above standing. (Co-listed with MECH ENG 5757)	3.0- 3.0	70513	LEC	1A	T	04:00 - 06:30 pm	BERTELS	00B12B	Canis,R
5613 Value Analysis Prerequisite: Senior or graduate standing.	3.0- 3.0	72452	LEC	1A	M	04:00 - 05:15 pm	CS	00209	Grantham,K
5614 Supply Chain Management Systems Prerequisite: Stat 3115 or Stat 3117.	3.0- 3.0	71604	LEC	1A	M	07:00 - 09:30 pm	BERTELS	00B12B	Lin,H
5615 Production Planning And Scheduling Prerequisite: Eng Mgt 3310.	3.0- 3.0	71776	LEC	1A	TTh	12:30 - 01:45 pm	FUL	00227	Konur,D
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	71525	LEC	1A	TTh	03:30 - 04:45 pm	EMGT	00103	Gosavi,A
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70515	IND	6A	ARR	ARR	ARR		Long,S
6099 Research	0.0-15.0	72170	IND	6A	ARR	ARR	ARR		Corns,S
	0.0-15.0	72171	IND	6B	ARR	ARR	ARR		Cudney,E
	0.0-15.0	72172	IND	6C	ARR	ARR	ARR		Dagli,C

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	0.0-15.0	72173	IND	6D	ARR	ARR	ARR		Enke,D	
	0.0-15.0	72174	IND	6E	ARR	ARR	ARR		Gosavi,A	
	0.0-15.0	72175	IND	6F	ARR	ARR	ARR		Grantham,K	
	0.0-15.0	72176	IND	6G	ARR	ARR	ARR		Guardiola,I	
	0.0-15.0	72177	IND	6H	ARR	ARR	ARR		Konur,D	
	0.0-15.0	72178	IND	6J	ARR	ARR	ARR		Long,S	
	0.0-15.0	72179	IND	6K	ARR	ARR	ARR		Murray,S	
	0.0-15.0	72180	IND	6L	ARR	ARR	ARR		Qin,R	
	0.0-15.0	72181	IND	6M	ARR	ARR	ARR		Raper,S	
	0.0-15.0	73656	IND	6N	ARR	ARR	ARR		Sun,Z	
6110	Case Studies In General Management Prerequisite: Preceded or accompanied by an Eng Mgt 6000 level course.	3.0- 3.0	71243	LEC	1A	T	07:00 - 09:30 pm	LIB	00316	Bade,J
6211	Advanced Financial Management Prerequisite: Eng Mgt 1210 or 5210.	3.0- 3.0	71526	LEC	1A	Th	04:00 - 06:30 pm	TMH	00260	Enke,D
6323	Global Project Management Prerequisite: Eng Mgt 5320 or equivalent.	3.0- 3.0	71292	LEC	1A	T	04:00 - 06:30 pm	TMH	00260	Schuman,J
6510	Technological Innovation Management Prerequisite: Eng Mgt 5111.	3.0- 3.0	71027	LEC	1A	Th	04:00 - 06:30 pm	LIB	00316	Bade,J
6710	Design for Six Sigma Prerequisite: Eng Mgt 5710.	3.0- 3.0	73344	LEC	1A	TTh	12:30 - 01:45 pm	FUL	00107A	Cudney,E

English

1120	Exposition And Argumentation	3.0- 3.0	70517	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00204	Young,B
		3.0- 3.0	70518	LEC	1B	TTh	12:30 - 01:45 pm	H-SS	000G8	Young,B
		3.0- 3.0	71302	LEC	1C	MWF	09:00 - 09:50 am	EMGT	00104	Arthur,R
		3.0- 3.0	70519	LEC	1D	MWF	10:00 - 10:50 am	H-SS	00204	Goldberg,M
		3.0- 3.0	70520	LEC	1E	MWF	12:00 - 12:50 pm	H-SS	000G8	Ekstam,F
		3.0- 3.0	71412	LEC	1F	MWF	11:00 - 11:50 am	H-SS	00204	Goldberg,M
		3.0- 3.0	71545	LEC	1H	MWF	01:00 - 01:50 pm	H-SS	00203	Goldberg,M
		3.0- 3.0	71414	LEC	1J	ARR	ARR	ARR		Tate,K
		3.0- 3.0	70521	LEC	1K	TTh	11:00 - 12:15 pm	EMGT	00104	Wise,R
		3.0- 3.0	71678	LEC	1L	TTh	09:30 - 10:45 am	H-SS	000G9	Tate,K
		3.0- 3.0	71211	LEC	1M	TTh	12:30 - 01:45 pm	H-SS	00104	Tate,K
		3.0- 3.0	71915	LEC	1N	TTh	02:00 - 03:15 pm	H-SS	00104	Wise,R
		3.0- 3.0	72036	LEC	1P	CANCELLED				
1160	Writing And Research Prerequisite: English 1120.	3.0- 3.0	70522	LEC	1A	MWF	08:00 - 08:50 am	H-SS	000G8	Larson,J
		3.0- 3.0	70523	LEC	1B	MWF	09:00 - 09:50 am	H-SS	000G8	Dereberry,M
		3.0- 3.0	71679	LEC	1C	MWF	10:00 - 10:50 am	H-SS	000G8	Dereberry,M
		3.0- 3.0	70525	LEC	1D	MWF	02:00 - 02:50 pm	H-SS	00202	Larson,J
		3.0- 3.0	71553	LEC	1E	TTh	02:00 - 03:15 pm	H-SS	00204	Swenson,K
		3.0- 3.0	71575	LEC	1F	TTh	09:30 - 10:45 am	BCH	00313	Schneider,R
		3.0- 3.0	71574	LEC	1G	TTh	11:00 - 12:15 pm	H-SS	00202	Schneider,R
		3.0- 3.0	70524	LEC	1H	MWF	11:00 - 11:50 am	H-SS	00203	Larson,J
		3.0- 3.0	72393	LEC	1J	TTh	02:00 - 03:15 pm	H-SS	00102	Schneider,R
		3.0- 3.0	72646	LEC	1K	MWF	01:00 - 01:50 pm	BCH	00317	Larson,J
1211	British Literature I: The Beginnings To 1800	3.0- 3.0	70526	LEC	1A	MWF	02:00 - 02:50 pm	TMH	00249	Schneider,R
1212	British Literature II 1800 To Present	3.0- 3.0	70527	LEC	1A	TTh	12:30 - 01:45 pm	EMGT	00201	Cotterill,A
1221	American Literature: 1600 To 1865	3.0- 3.0	72447	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00104	Dolan,K
1222	American Literature: 1865 To Present	3.0- 3.0	70528	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00201	Brown,T
		3.0- 3.0	71254	LEC	1B	TTh	02:00 - 03:15 pm	CS	00204	Tate,K
1231	World Literature I: From The Beginnings To The Renaissance	3.0- 3.0	72914	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00102	Cotterill,A
1600	Introduction to Technical Communication Prerequisite: English 1120. (Co-listed with TCH COM 1600)	3.0- 3.0	71189	LEC	1A	MWF	11:00 - 11:50 am	SHNK	00140	Stone,T
		3.0- 3.0	71681	LEC	1B	TTh	11:00 - 12:15 pm	H-SS	00102	Kerwin,R
		3.0- 3.0	72537	LEC	1C	ARR	ARR	ARR		Roberson,E
		This course is a full semester course.								
2000	Special Problems And Readings Prerequisite: Consent of instructor.	0.0- 6.0	70531	IND	6A	ARR	ARR	ARR		Swenson,K
2171	Fiction Writing Prerequisites: English 1120 or equivalent.	3.0- 3.0	73214	LEC	1A	MWF	09:00 - 09:50 am	EMGT	00106	Goldberg,M
2240	Children's Literature Prerequisites: English 1120.	3.0- 3.0	73215	LEC	1A	W	06:00 - 09:00 pm	H-SS	00201	Malone,E

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2244 Fantasy Literature Prerequisites: English 1120 and a semester of college literature.	3.0- 3.0	72229	LEC	1A	MW	09:00 - 09:50 am	H-SS	00201	Reardon,D
			LEC	1A	ARR	ARR	ARR		
2560 Technical Marketing Communication Prerequisites: English 1600 or Tch Com 1600 or English 1160. (Co-listed with TCH COM 2560)	3.0- 3.0	71714	LEC	1A	MWF	11:00 - 11:50 am	CSF	00114	Roberson,E
	3.0- 3.0	71094	LEC	1B	ARR	ARR	ARR		Wright,M
3000 Special Problems	0.0- 6.0	71100	IND	6A	ARR	ARR	ARR		Swenson,K
	0.0- 6.0	71116	IND	6B	ARR	ARR	ARR		
	0.0- 6.0	70532	IND	6C	ARR	ARR	ARR		
	0.0- 6.0	71193	IND	6D	ARR	ARR	ARR		
3001 Special Topics Prerequisites: English 1120.	3.0- 3.0	73514	LEC	1A	T	06:30 - 09:30 pm	TMH	00249	Hercula,S
									Language in Society
	3.0- 3.0	73515	LEC	1B	MWF	01:00 - 01:50 pm	EMGT	00104	Dolan,K
									Foods in Latin American Litera
3224 Southern Culture Prerequisite: English 1120 and one semester of literature.	3.0- 3.0	73216	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00203	Brown,T
3234 Myth & Folklore Prerequisites: English 1120 and one semester of college literature.	3.0- 3.0	73217	LEC	1A	TTh	02:00 - 03:15 pm	EMGT	00104	Bryan,E
3302 History And Structure Of The English Language Prerequisite: English 1120.	3.0- 3.0	71713	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00316	Bryan,E
3560 Technical Writing Prerequisites: English 1120 and second-semester junior standing.	3.0- 3.0	71190	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00202	Mehanovic,A
	3.0- 3.0	72539	LEC	1B	MWF	10:00 - 10:50 am	SHNK	00140	Coffman,H
	3.0- 3.0	70529	LEC	1C	MWF	09:00 - 09:50 am	CSF	00114	Roberson,E
	3.0- 3.0	70530	LEC	1D	MWF	01:00 - 01:50 pm	H-SS	00202	Bratch,L
	3.0- 3.0	72230	LEC	1F	MWF	10:00 - 10:50 am	CSF	00114	Roberson,E
	3.0- 3.0	72979	LEC	1G	ARR	ARR	ARR		Malone,E
									Course meets first 8 weeks of the semester.
									UM Shared Course-Secondary

Enterprise Resource Planning

2110 Introduction to Enterprise Resource Planning Prerequisite: IS&T 1750.	3.0- 3.0	71658	LEC	1A	MWF	10:00 - 10:50 am	TMH	00251	Chiu,Y
5210 Performance Dashboard, Scorecard and Data Visualization Prerequisite: ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	71408	LEC	1A	MWF	09:00 - 09:50 am	FUL	00107A	Lea,B
6120 Enterprise Resource Planning: Systems Config and Integration Prerequisite: ERP 5110.	3.0- 3.0	71206	LEC	1A	W	04:00 - 06:30 pm	FUL	00107A	Lea,B
6444 Essentials of Data Warehouses Prerequisite: IS&T 3423 or equivalent relational database experience. (Co-listed with IS&T 6444)	3.0- 3.0	71581	LEC	1A	TTh	02:00 - 03:15 pm	FUL	00107A	Yu,W

Environmental Engineering

2601 Fundamentals Of Environmental Engineering and Science Prerequisites: Chem 1310, Chem 1301, or Chem 1351; Math 1214, Math 1212, or Math 1208. (Co-listed with Civ Eng 2601)	3.0- 3.0		LEC	1A	MW	08:00 - 08:50 am	BCH	00209	Oerther,D
	3.0- 3.0		LEC	1B	MW	11:00 - 11:50 am	BCH	00124	Wang,J
	3.0- 3.0	71434	LAB	3A1	M	01:00 - 03:50 pm	BCH	00209	Oerther,D
	3.0- 3.0	73538	LAB	3A2	T	01:00 - 03:50 pm	BCH	00209	Oerther,D
	3.0- 3.0	71646	LAB	3B1	W	01:00 - 03:50 pm	BCH	00209	Wang,J
	3.0- 3.0	73539	LAB	3B2	Th	01:00 - 03:50 pm	BCH	00209	Wang,J
2602 Biological Fundamentals Of Environmental Engineering Prerequisites: Bio Sci 1113 and preceded or accompanied by Civ/Env Eng 2601. (Co-listed with Civ Eng 2602)	3.0- 3.0	72126	LEC	1A	MWF	11:00 - 11:50 am	BCH	00216	Fitch,M
3603 Chemical Fundamentals Of Environmental Engineering Prerequisites: Chem 1320 or Geology 3410; Physics 1135, Math 2222.	3.0- 3.0		LEC	1A	TTh	12:30 - 01:45 pm	BCH	00101	
	3.0- 3.0	72147	LAB	3A	Th	02:00 - 03:50 pm	BCH	00316	Wang,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
4097 Senior Design Project Prerequisite: Civ Eng 4448 or Arch Eng 4448. (Co-listed with Arch Eng 4097 and Civ Eng 4097)	3.0- 3.0	71308	LEC	1A	M	01:00 - 03:50 pm	BCH	00120	Showalter,W	
4099 Undergraduate Research	0.0- 6.0	71589	IND	6A	ARR	ARR	ARR		Burken,J	
	0.0- 6.0	71616	IND	6B	ARR	ARR	ARR		Fitch,M	
	0.0- 6.0	71617	IND	6C	ARR	ARR	ARR		Morrison,G	
	0.0- 6.0	71618	IND	6D	ARR	ARR	ARR		Oerther,D	
	0.0- 6.0	71619	IND	6E	ARR	ARR	ARR		Wang,J	
4609 Research in Environmental Engineering Prerequisite: Senior standing.	1.0- 1.0	71200	LEC	1A	ARR	ARR	ARR		Burken,J	
5000 Special Problems	0.0- 6.0	72380	IND	6A	ARR	ARR	ARR		Burken,J	
5001 Special Topics Junior or Senior Standing. Co-listed with CIV ENG 5001 and POL SCI 4001.	3.0- 3.0	73311	LEC	1A	MWF	12:00 - 12:50 pm	BCH	00213	Oerther,D	
									STEAM Diplomacy	
									UM Shared Course-Secondary	
5619 Environmental Engineering Design Prerequisite: Civ Eng 3615 or Env Eng 3615. (Co-listed with Civ Eng 5619)	3.0- 3.0		LEC	1A	Th	04:00 - 04:50 pm	BCH	00216		
			LEC	1A	T	04:00 - 04:50 pm	BCH	00216	Campbell,K	
	3.0- 3.0	71928	LAB	3A	Th	05:00 - 05:50 pm	BCH	00209	Campbell,K	
5635 Phytoremediation and Natural Treatment Systems: Science and Design Prerequisite: Env Eng 3615 or Civ Eng 3615 or graduate standing.	3.0- 3.0	72707	LEC	1A	MWF	10:00 - 10:50 am	BCH	00213	Burken,J	
5640 Environmental Law And Regulations (Co-listed with Civ Eng 5640)	3.0- 3.0	71390	LEC	1A	M	07:00 - 09:30 pm	BCH	00213	Flechas,F	
5650 Public Health Engineering Prerequisite: Civ Eng 2601 with grade of "C" or better. (Co-listed with Civ Eng 5650)	3.0- 3.0	72543	LEC	1A	TTh	11:00 - 12:15 pm	LIB	000G14	Oerther,D	
5662 Air Pollution Control Methods Prerequisite: Civ Eng 3330 or equivalent; or graduate standing. (Co-listed with Civ Eng 5662)	3.0- 3.0	72160	LEC	1A	CANCELLED					
6000 Special Problems	0.0- 6.0	70330	IND	6A	ARR	ARR	ARR		Burken,J	
	0.0- 6.0	70331	IND	6B	ARR	ARR	ARR		Fitch,M	
	0.0- 6.0	70332	IND	6C	ARR	ARR	ARR			
	0.0- 6.0	71042	IND	6D	ARR	ARR	ARR		Oerther,D	
	0.0- 6.0	71615	IND	6E	ARR	ARR	ARR		Wang,J	
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70336	IND	6A	ARR	ARR	ARR		Burken,J	
6099 Research	0.0-15.0	70333	IND	6A	ARR	ARR	ARR		Burken,J	
	0.0-15.0	70334	IND	6B	ARR	ARR	ARR		Fitch,M	
	0.0-15.0	70335	IND	6C	ARR	ARR	ARR			
	0.0-15.0	71043	IND	6D	ARR	ARR	ARR		Oerther,D	
	0.0-15.0	71614	IND	6E	ARR	ARR	ARR		Wang,J	
6611 Physicochemical Operations In Environmental Engineering Systems Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Civ Eng 6611 and Chem Eng 6330)	3.0- 3.0	71719	LEC	1A	TTh	09:30 - 10:45 am	BCH	00209	Wang,J	
6612 Biological Operations In Environmental Engineering Systems Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Civ Eng 6612)	3.0- 3.0	71866	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00213	Fitch,M	
Etymology										
4306 Introduction To Etymology Prerequisite: Any foreign language course or English 1120.	3.0- 3.0	72846	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	00203	Cohen,G	
Explosives Engineering										
5112 Explosives Handling and Safety Prerequisite: Junior Standing or above.	3.0- 3.0	71629	LEC	1A	Th	04:00 - 06:30 pm	MINE		Johnson,C	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5622 Blasting Design And Technology Prerequisites: Min Eng 5612. Student must be at least 21 years of age. Successful background check. (Co-listed with Min Eng 5622)	3.0- 3.0		LEC	1A	T	12:30 - 02:20 pm	MINE		Worsey,P
			"BACKGROUND CHECK REQUIRED IN ADVANCE. SEE SECRETARY IN MCNUTT 226."						
	3.0- 3.0	71633	LAB	3A	Th	01:00 - 03:45 pm	MINE		Worsey,P
	3.0- 3.0	71634	LAB	3B	M	01:00 - 03:45 pm	MINE		Worsey,P
5922 Advanced Tunneling & Underground Construction Techniques	3.0- 3.0	73292	LEC	1A	ARR	ARR			Perry,K
			Prerequisite: Consent of instructor. (Co-listed with Min Eng 5922)						
	3.0- 3.0		LAB	3A	ARR	ARR			Perry,K
6070 Graduate Cooperative Experience Prerequisite: 12 hours Exp Eng coursework.	3.0- 3.0	71787	LAB	3A	ARR	ARR	ARR		Worsey,P
	3.0- 3.0	72617	LAB	3B	ARR	ARR	ARR		Johnson,C
6080 Industry Project Prerequisite: 12 hours Exp Eng coursework.	3.0- 3.0	71788	LAB	3A	ARR	ARR	ARR		Johnson,C
	3.0- 3.0	72615	LAB	3B	ARR	ARR	ARR		Lusk,B
	3.0- 3.0	72875	LAB	3C	ARR	ARR	ARR		Perry,K
	3.0- 3.0	72876	LAB	3D	ARR	ARR	ARR		Worsey,P
6099 Research Prerequisites: Consent of instructor required.	0.0-15.0	71780	IND	6A	ARR	ARR	ARR		Johnson,C
	0.0-15.0	71781	IND	6B	ARR	ARR	ARR		Lusk,B
	0.0-15.0	72877	IND	6C	ARR	ARR	ARR		Perry,K
	0.0-15.0	72878	IND	6D	ARR	ARR	ARR		Worsey,P
6112 Explosives Regulations	3.0- 3.0	73598	LEC	1A	ARR	ARR	ARR		Worsey,G
6292 Research Methods Prerequisites: PhD students only. (Co-listed with Min Eng 6992)	3.0- 3.0	72390	LEC	1A	ARR	ARR	ARR		Lusk,B

Finance

2150 Corporate Finance I Prerequisites: Bus 1210 or Eng Mgt 2211.	3.0- 3.0	72564	LEC	1A	MWF	02:00 - 02:50 pm	FUL	00227	Liu,Y
	3.0- 3.0	71609	LEC	1B	TTh	12:30 - 01:45 pm	BCH	00121	Zhang,H
3000 Special Problems Prerequisite: Consent of instructor required	0.0- 6.0	71905	IND	6A	ARR	ARR	ARR		
5260 Investments I Prerequisites: Finance 2150.	3.0- 3.0	71717	LEC	1A	TTh	09:30 - 10:45 am	EECH	00103	Zhang,H

French

1101 Elementary French I Prerequisite: Entrance requirements.	4.0- 4.0	72556	LEC	1A	MWF	09:00 - 09:50 am	EECH	00111	
			LEC	1A	ARR	ARR	ARR		Webster,C
1102 Elementary French II Prerequisite: French 1101.	4.0- 4.0	70533	LEC	1A	MWF	10:00 - 10:50 am	EECH	00111	Webster,C
			LEC	1A	ARR	ARR	ARR		
1180 Intermediate French Prerequisite: French 1102. One hour ARR	4.0- 4.0	72971	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00104	Webster,C
			LEC	1A	ARR	ARR	ARR		
2170 Masterpieces Of French Literature Prerequisite: French 1180.	3.0- 3.0	73357	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00104	Merfeld-Langston,A

Freshman Engineering

1100 Study And Careers In Engineering	1.0- 1.0	71795	LEC	1A	M	05:00 - 05:50 pm	EMGT	00103	Miller,F
			LEC	1A	ARR	ARR	ARR		

Geological Engineering

1119 Physical and Environmental Geology Laboratory Prerequisite: Preceded or accompanied by Geology 1110. (Co-listed with Geology 1119)	1.0- 1.0	72548	LAB	3A	M	01:00 - 03:50 pm	MCNT	00316	Gertsch,L
	1.0- 1.0	72549	LAB	3B	T	12:30 - 03:15 pm	MCNT	00316	Gertsch,L
	1.0- 1.0	72550	LAB	3C	W	02:00 - 02:50 pm	MCNT	00316	Gertsch,L
1150 Physical and Environmental Geology Prerequisite: Entrance requirements. (Co-listed with Geology 1110)	3.0- 3.0	72547	LEC	1A	MWF	12:00 - 12:50 pm	MCNT	00204	Rogers,J
2000 Special Problems	0.0- 6.0	70535	IND	6A	ARR	ARR	ARR		Maerz,N
2002 Cooperative Work Training	1.0- 3.0	71800	IND	6A	ARR	ARR	ARR		Grote,K
2110 Principles Of Geological Engineering Prerequisite: Sophomore standing in the GE program.	1.0- 1.0	70534	LEC	1A	W	08:00 - 08:50 am	MCNT	00265	Anderson,N
2605 Statics and Mechanics of Geologic Materials	3.0- 3.0	73657	LEC	1A	ARR	ARR	ARR		Gertsch,L
3175 Geomorphology And Terrain Analysis Prerequisite: Geo Eng 1150.	3.0- 3.0		LEC	1A	TTh	08:00 - 08:50 am	MCNT	00212	Gertsch,L
	3.0- 3.0	70537	LAB	3A	M	01:00 - 03:50 pm	MCNT	00265	Gertsch,L

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4000 Special Problems Prerequisite: Consent of instructor required.	3.0- 3.0	71675	LAB	3B	W	01:00 - 03:50 pm	MCNT	00265	Gertsch,L
	0.0- 6.0	70538	IND	6A	ARR	ARR	ARR		Gertsch,L
	0.0- 6.0	70539	IND	6B	ARR	ARR	ARR		Grote,K
	0.0- 6.0	70540	IND	6C	ARR	ARR	ARR		Guggenberger,J
	0.0- 6.0	72551	IND	6D	ARR	ARR	ARR		Maerz,N
4010 Current Topics and Professionalism Prerequisite: Senior standing. (Co-listed with Geology 4010, Pet Eng 4010)	0.0- 6.0	72552	IND	6E	ARR	ARR	ARR		Rogers,J
	0.5- 0.5	71784	RSD	2A	W	04:00 - 04:50 pm	MCNT	00204	Gertsch,L
4099 Undergraduate Research	0.0- 6.0	70545	IND	6A	ARR	ARR	ARR		Anderson,N
	0.0- 6.0	73419	IND	6B	ARR	ARR	ARR		Gertsch,L
	0.0- 6.0	73420	IND	6C	ARR	ARR	ARR		Grote,K
	0.0- 6.0	73421	IND	6D	ARR	ARR	ARR		Guggenberger,J
	0.0- 6.0	73422	IND	6E	ARR	ARR	ARR		Maerz,N
4115 Statistical Methods in Geology and Engineering	0.0- 6.0	73423	IND	6F	ARR	ARR	ARR		Rogers,J
	3.0- 3.0	71303	LEC	1A	MWF	09:00 - 09:50 am	BCH	00213	Alsaaidih,A
4276 Environmental Aspects Of Mining Prerequisites: Co-requisites: MIN ENG 4933 or GEO ENG 5441 or ENV ENG 5619. (Co-listed with MIN ENG 4742)	3.0- 3.0	71326	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00103	Awuah-Offei,K
5085 Internship DE students only.	0.0-15.0	70555	IND	6A	ARR	ARR	ARR		Grote,K
5092 International Engineering and Design Prerequisites: Senior standing, instructor approval, Geo Eng 5211, Geo Eng 5247. (Co-listed with Met Eng 4510 and Cer Eng 4510)	3.0- 3.0	73445	LEC	1A	ARR	ARR	ARR		Guggenberger,J
									Field Trip Required
5099 Research	0.0-15.0	70550	IND	6A	ARR	ARR	ARR		Anderson,N
	0.0-15.0	70551	IND	6B	ARR	ARR	ARR		Gertsch,L
	0.0-15.0	70552	IND	6C	ARR	ARR	ARR		Grote,K
	0.0-15.0	70553	IND	6D	ARR	ARR	ARR		Guggenberger,J
	0.0-15.0	70554	IND	6E	ARR	ARR	ARR		Maerz,N
	0.0-15.0	71257	IND	6F	ARR	ARR	ARR		Rogers,J
5144 Remote Sensing Technology Prerequisite: Geo Eng 3148. (Co-listed with Geology 4310)	0.0-15.0	72476	IND	6G	ARR	ARR	ARR		
	3.0- 3.0	71241	LAB	3A	Th	03:30 - 06:15 pm	MCNT	000B14	Witt,E
5174 Geological Engineering Field Methods	3.0- 3.0	70543	LAB	3A	MW	12:00 - 12:50 pm	ARR		Guggenberger,J
			LAB	3A	W	01:00 - 03:50 pm	ARR		
5381 Intermediate Subsurface Hydrology And Contaminant Transport Mechs Prerequisites: Civ Eng 3330 & Geo Eng 5331.	3.0- 3.0	70544	LEC	1A	MWF	11:00 - 11:50 am	LIB	000G14	Grote,K
5443 Subsurface Exploration Prerequisite: Geo Eng 1150.	3.0- 3.0		LEC	1A	M	04:00 - 06:30 pm	BCH	00213	Maerz,N
	3.0- 3.0	70542	LAB	3A	T	12:30 - 03:15 pm	MCNT	00265	Maerz,N
5782 Environmental and Engineering Geophysics Prerequisite: Math 2222. (Co-listed with Geophys 5782)	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	MCNT	00243	Torgashov,E
	3.0- 3.0	71459	LAB	3A	T	01:00 - 03:00 pm	CSF	00G5D	Anderson,N
6000 Special Problems	0.0- 6.0	70546	IND	6A	ARR	ARR	ARR		Anderson,N
	0.0- 6.0	70547	IND	6B	ARR	ARR	ARR		Grote,K
	0.0- 6.0	70548	IND	6C	ARR	ARR	ARR		Gertsch,L
	0.0- 6.0	71187	IND	6D	ARR	ARR	ARR		Maerz,N
	0.0- 6.0	71372	IND	6E	ARR	ARR	ARR		Rogers,J
6001 Special Topics Prerequisites: Preceded or accompanied by both GEO ENG 5441 and GEO ENG 5443.	3.0- 3.0	73448	LEC	1A	W	07:00 - 09:30 pm	TMH	00260	Rogers,J
									Adv Eng Geo & Geotechnics
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70556	IND	6A	ARR	ARR	ARR		Rogers,J
6050 Continuous Registration	1.0- 1.0	72133	IND	6A	ARR	ARR	ARR		Rogers,J
6099 Research	0.0-15.0	73551	IND	6A	ARR	ARR	ARR		Maerz,N
	0.0-15.0	73563	IND	6B	ARR	ARR	ARR		Grote,K

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6782 Surface Waves (MASW) and Ground Penetrating Radar (GPR) Prerequisites: Geo Eng 1150 or Civ Eng 3715 or equivalent, and graduate standing	0.0-15.0	73599	IND	6C	ARR	ARR	ARR		Gertsch,L
	3.0- 3.0		LEC	1A	Th	04:00 - 06:30 pm	BCH	00213	Anderson,N
	3.0- 3.0	71779	LAB	3A	Th	ARR	ARR		Anderson,N
Geology									
1120 Evolution Of The Earth Prerequisites: Recommend Geo Eng 1150 or Geology 1110 or Bio Sci 1113 but not required.	3.0- 3.0	70557	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00216	Adojoh,O
									Field Trip Required
1129 Evolution of the Earth Laboratory Prerequisite: Preceded or accompanied by Geology 1120	1.0- 1.0	71263	LAB	3A	T	02:00 - 04:45 pm	MCNT	00312	Obok Ikuenobe,F
	1.0- 1.0	71691	LAB	3B	W	01:00 - 03:50 pm	MCNT	00312	Obok Ikuenobe,F
2611 Physical Mineralogy And Petrology Prerequisites: Chem 1310 and Chem 1319 or Chem 1351; Geo Eng 1150 or Geology 1110.	3.0- 3.0		LEC	1A	MW	05:00 - 05:50 pm	MCNT	00204	Locmelis,M
	3.0- 3.0	71924	LAB	3A	T	04:00 - 05:50 pm	MCNT	00108	Locmelis,M
	3.0- 3.0	71362	LAB	3B	W	02:00 - 03:50 pm	MCNT	00108	Locmelis,M
	3.0- 3.0	70559	LAB	3C	Th	02:00 - 03:50 pm	MCNT	00108	Locmelis,M
	3.0- 3.0	71111	LAB	3D	Th	04:00 - 05:50 pm	MCNT	00108	
	3.0- 3.0	71588	LAB	3E		CANCELLED			
2620 Igneous And Metamorphic Petrology Prerequisite: Geology 2610.	4.0- 4.0		LEC	1A	MWF	09:00 - 09:50 am	MCNT	00265	Hogan,J
									Field Trip Required
	4.0- 4.0	70561	LAB	3A	T	01:00 - 01:50 pm	MCNT	00308	Hogan,J
									Field Trip Required
	4.0- 4.0	71093	LAB	3B	W	01:00 - 03:50 pm	MCNT	00308	Hogan,J
									Field Trip Required
3000 Special Problems	0.0- 6.0	70562	IND	6A	ARR	ARR	ARR		Hogan,J
3410 Introduction To Geochemistry Prerequisite: Chem 1310.	3.0- 3.0	70567	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00204	Wronkiewicz,D
3620 Stratigraphy And Sedimentation Prerequisite: Geology 2620 or Geology 2611.	3.0- 3.0	70564	LEC	1A	MWF	11:00 - 11:50 am	H-SS	000G5	Yang,W
									Field Trip Required
3629 Stratigraphy Lab Prerequisite: Concurrent with Geology 3620.	1.0- 1.0	70565	LAB	3A	F	01:00 - 03:50 pm	MCNT	00265	Yang,W
									Field Trip Required
4000 Special Problems	0.0- 6.0	70568	IND	6A	ARR	ARR	ARR		Borrok,D
	0.0- 6.0	70569	IND	6B	ARR	ARR	ARR		Hogan,J
	0.0- 6.0	70570	IND	6C	ARR	ARR	ARR		Locmelis,M
	0.0- 6.0	71198	IND	6D	ARR	ARR	ARR		Obok Ikuenobe,F
	0.0- 6.0	72959	IND	6E	ARR	ARR	ARR		Obrist Farnar,J
	0.0- 6.0	73050	IND	6F	ARR	ARR	ARR		Wronkiewicz,D
	0.0- 6.0	73418	IND	6G	ARR	ARR	ARR		Yang,W
4010 Seminar Prerequisite: Senior standing. (Co-listed with Geo Eng 4010, Pet Eng 4010)	0.0- 6.0	70563	RSD	2A	W	04:00 - 04:50 pm	MCNT	00265	Locmelis,M
4085 Internship Prerequisite: Advisor's approval.	3.0- 3.0	73558	IND	6A	ARR	ARR	ARR		Borrok,D
	3.0- 3.0	73583	IND	6B	ARR	ARR	ARR		Locmelis,M
4099 Undergraduate Research	0.0- 6.0	71074	IND	6A	ARR	ARR	ARR		Borrok,D
	0.0- 6.0	70571	IND	6B	ARR	ARR	ARR		Hogan,J
	0.0- 6.0	70572	IND	6C	ARR	ARR	ARR		Locmelis,M
	0.0- 6.0	70573	IND	6D	ARR	ARR	ARR		Obok Ikuenobe,F
	0.0- 6.0	72960	IND	6E	ARR	ARR	ARR		Obrist Farnar,J
	0.0- 6.0	73244	IND	6F	ARR	ARR	ARR		Wronkiewicz,D
	0.0- 6.0	73245	IND	6G	ARR	ARR	ARR		Yang,W
4310 Remote Sensing Technology Prerequisite: Geo Eng 3148. (Co-listed with Geo Eng 5144)	3.0- 3.0		LEC	1A	M	06:00 - 07:50 pm	BCH	00120	Witt,E
	3.0- 3.0	71295	LAB	3A	Th	03:30 - 06:15 pm	MCNT	000B14	Witt,E
4431 Methods Of Karst Hydrogeology Prerequisite: Geology 1110 or Geo Eng 1150; Geology 3620.	3.0- 3.0	70566	LEC	1A		CANCELLED			
4521 Ore Microscopy Prerequisite: Geology 2610.	3.0- 3.0		LEC	1A		CANCELLED			
	3.0- 3.0	72740	LAB	3A		CANCELLED			
4841 Geological Field Studies	3.0- 3.0	72277	LEC	1A	M	04:00 - 04:50 pm	MCNT	00124	Wronkiewicz,D
5000 Special Problems	0.0- 6.0	71075	IND	6A	ARR	ARR	ARR		Hogan,J

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	0.0- 6.0	70574	IND	6B	ARR	ARR	ARR		Locmelis,M
	0.0- 6.0	70575	IND	6C	ARR	ARR	ARR		Oboh Ikuenobe,F
	0.0- 6.0	70576	IND	6D	ARR	ARR	ARR		Obrist Famer,J
	0.0- 6.0	72961	IND	6E	ARR	ARR	ARR		Yang,W
	0.0- 6.0	73246	IND	6F	ARR	ARR	ARR		Borrok,D
5001 Special Topics	3.0- 3.0	73574	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00265	Borrok,D
Prerequisites: Students must be enrolled in a graduate program in the GGPE Department. Petroleum Geochemistry									
5010 Seminar	0.0- 6.0	70577	RSD	2A	W	04:00 - 04:50 pm	MCNT	00265	Locmelis,M
5040 Oral Examination	0.0- 0.0	70582	IND	6A	ARR	ARR	ARR		Hogan,J
Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.									
5099 Research	0.0-15.0	70581	IND	6A	ARR	ARR	ARR		Hogan,J
	0.0-15.0	70578	IND	6B	ARR	ARR	ARR		Locmelis,M
	0.0-15.0	70579	IND	6C	ARR	ARR	ARR		Oboh Ikuenobe,F
	0.0-15.0	70580	IND	6D	ARR	ARR	ARR		Obrist Famer,J
	0.0-15.0	72962	IND	6E	ARR	ARR	ARR		Yang,W
	0.0-15.0	73247	IND	6F	ARR	ARR	ARR		Borrok,D
5311 Depositional Systems	3.0- 3.0	71087	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00243	Yang,W
Prerequisites: Geology 1110 or Geo Eng 1150; accompanied or preceded by both Geology 3310 and Geology 3620.									
5641 Advanced Igneous Petrology	3.0- 3.0		LEC	1A	TTh	08:00 - 08:50 am	MCNT	00245	Hogan,J
Prerequisites: GEOLOGY 4631.									
6040 Oral Examination	0.0- 0.0	72417	IND	6A	ARR	ARR	ARR		Oboh Ikuenobe,F
6050 Continuous Registration	1.0- 1.0	72115	IND	6A	ARR	ARR	ARR		Oboh Ikuenobe,F
6211 Geodynamics	3.0- 3.0	73450	LEC	1A	M	02:00 - 04:50 pm	MCNT	00130	Eckert,A
Prerequisites: Math 2222 and Geology 3310. (Co-listed with Pet Eng 6711)									
6331 Geotectonics	3.0- 3.0	71351	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00206	Gao,S
Prerequisite: Geology 3310.									
6511 Advanced Petroleum Geology	3.0- 3.0		LEC	1A	T	09:30 - 10:45 am	MCNutt	234	Obrist Famer,J
Prerequisite: Geology 4511.									
	3.0- 3.0	73441	LAB	3A	Th	02:00 - 04:45 pm	MCNutt	234	Obrist Famer,J
6611 Advanced Palynology	3.0- 3.0		LEC	1A	ARR	ARR	MCNT	00309	Oboh Ikuenobe,F
Prerequisite: Geology 3631 or 4641									
	3.0- 3.0	73249	LAB	3A	ARR	ARR	MCNT	00309	Oboh Ikuenobe,F
Geophysics									
4000 Special Problems	0.0- 6.0	70583	IND	6A	ARR	ARR	ARR		Liu,K
Prerequisite: Consent of instructor.									
	0.0- 6.0	70584	IND	6B	ARR	ARR	ARR		Gao,S
4099 Undergraduate Research	0.0- 6.0	70586	IND	6A	ARR	ARR	ARR		Anderson,N
	0.0- 6.0	70587	IND	6B	ARR	ARR	ARR		Gao,S
	0.0- 6.0	71341	IND	6C	ARR	ARR	ARR		Liu,K
5000 Special Problems	0.0- 6.0	70588	IND	6A	ARR	ARR	ARR		Gao,S
	0.0- 6.0	71352	IND	6B	ARR	ARR	ARR		Liu,K
5010 Seminar	0.0- 6.0	70589	RSD	2A	W	04:00 - 04:50 pm	MCNT	00265	Locmelis,M
5040 Oral Examination	0.0- 0.0	70592	IND	6A	ARR	ARR	ARR		Gao,S
Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.									
5096 Global Tectonics	3.0- 3.0	70585	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00206	Gao,S
Prerequisite: Geology 3310.									
5099 Research	0.0-15.0	70590	IND	6A	ARR	ARR	ARR		Gao,S
	0.0-15.0	70591	IND	6B	ARR	ARR	ARR		Liu,K
5202 Exploration and Development Seismology	3.0- 3.0		LEC	1A	MW	01:00 - 01:50 pm	MCNT	000B14	Liu,K
Prerequisites: Math 1208 or Math 1214; Geology 1110 or Geo Eng 1150.									
	3.0- 3.0	71440	LAB	3A	W	02:00 - 03:00 pm	MCNT	000B14	
			LAB	3A	W	ARR	ARR		Liu,K
5782 Environmental and Engineering Geophysics	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	MCNT	00243	Torgashov,E
Prerequisite: Math 2222. (Co-listed with Geo Eng 5782)									
	3.0- 3.0	71457	LAB	3A	T	01:00 - 03:00 pm	CSF	00G5D	Anderson,N
6050 Continuous Registration	1.0- 1.0	70593	IND	6A	ARR	ARR	ARR		Gao,S
Doctoral students only. Graduate Office permission required.									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6231 Advanced Seismic Data Processing Prerequisites: Geophys 4251, 5231, Stat 3115.	3.0- 3.0		LEC	1A	F	03:00 - 04:50 pm	MCNT	00114	Gao,S
	3.0- 3.0	72221	LAB	3A	ARR	ARR	ARR		
6241 The Theory of Elastic Waves Prerequisites: Geophys 3210.	3.0- 3.0		LEC	1A	M	02:00 - 03:50 pm	MCNT	00216	Liu,K
	3.0- 3.0	73565	LAB	3A	ARR	ARR	ARR		Liu,K
6251 Geophysical Inverse Theory Prerequisites: Geophys 286 or 384, Math 325, Stat 215.	3.0- 3.0	73518	LEC	1A	CANCELLED				

German

1102 Elementary German II Prerequisite: German 1101.	4.0- 4.0	72844	LEC	1A	Th	10:00 - 10:50 am	H-SS	00202	Cohen,G
			LEC	1A	MWF	10:00 - 10:50 am	H-SS	00203	Cohen,G
2170 Masterpieces Of German Literature Prerequisite: German 1180.	3.0- 3.0	72845	LEC	1A	MWF	01:00 - 01:50 pm	EMGT	00106	Cohen,G
4000 Special Problems	0.0- 6.0	73472	IND	6A	ARR	ARR	ARR		Cohen,G

History

1100 Early Western Civilization	3.0- 3.0	71287	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	00103	Bruening,M
	3.0- 3.0	73228	LEC	1B	MWF	03:00 - 03:50 pm	H-SS	00103	Bruening,M
1200 Modern Western Civilization	3.0- 3.0	71840	LEC	1A	MWF	01:00 - 01:50 pm	EMGT	00103	Sheppard,K
	3.0- 3.0	72636	LEC	1B	TTh	12:30 - 01:45 pm	H-SS	00103	Quinn,J
1300 American History To 1877	3.0- 3.0	71841	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00103	Pope,J
	3.0- 3.0	72637	LEC	1B	TTh	03:30 - 04:45 pm	H-SS	00201	Ketcherside,J
1310 American History Since 1877	3.0- 3.0	72158	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00103	Ahmad,D
	3.0- 3.0	71543	LEC	1B	MWF	11:00 - 11:50 am	H-SS	00103	Ahmad,D
	3.0- 3.0	72639	LEC	1C	TTh	02:00 - 03:15 pm	TMH	00250	Croft,D
	3.0- 3.0	71109	LEC	1D	TTh	03:30 - 04:45 pm	H-SS	00101	McManus,J
	3.0- 3.0	72640	LEC	1E	MWF	09:00 - 09:50 am	H-SS	00101	Huber,P
	3.0- 3.0	72638	LEC	1F	MWF	10:00 - 10:50 am	H-SS	00101	Huber,P
2110 World Regional Geography	3.0- 3.0	71598	LEC	1A	TTh	12:30 - 01:45 pm	H-SS	00201	Rivera,J
2510 History of Technology Prerequisite: History 1100 or 1200 or 1300 or 1310.	3.0- 3.0	73341	LEC	1A	ARR	ARR	ARR		Schramm,J
UM Shared Course-Secondary									
3140 History Of Renaissance Thought Prerequisite: History 1100 or 1200.	3.0- 3.0	73231	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00103	Bruening,M
3230 Europe In The Age Of The French Revolution And Napoleon Prerequisite: History 1200.	3.0- 3.0	73235	LEC	1A	M	06:00 - 08:45 pm	H-SS	00101	Fogg,S
3325 Revolutionary America, 1754-1789 Prerequisite: History 1300.	3.0- 3.0	73229	LEC	1A	TTh	02:00 - 03:15 pm	H-SS	00203	Pope,J
Communication Intensive									
3345 Civil War And Reconstruction Prerequisite: History 1300.	3.0- 3.0	73232	LEC	1A	Th	06:00 - 08:45 pm	H-SS	00101	McManus,J
3420 History Of Missouri Prerequisite: History 1300 or 1310.	3.0- 3.0	73230	LEC	1A	MWF	11:00 - 11:50 am	H-SS	00101	Huber,P
Communication Emphasized									
3441 The United States In World War II Prerequisite: History 1300 or 1310.	3.0- 3.0	72685	LEC	1A	T	06:00 - 08:45 pm	H-SS	00101	McManus,J
3530 History of Science Prerequisite: History 1100 or History 1200 or History 1300 or History 1310.	3.0- 3.0	73007	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00201	Sheppard,K
Communication Emphasized									
	3.0- 3.0	73233	LEC	1B	MWF	11:00 - 11:50 am	H-SS	00201	Sheppard,K
Communication Emphasized									
3665 History of Japan Prerequisite: History 1200 or History 1300 or History 1310.	3.0- 3.0	73234	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00103	Ahmad,D
4000 Special Problems Prerequisite: Consent of instructor.	0.0- 6.0	70594	IND	6A	ARR	ARR	ARR		Ahmad,D
	0.0- 6.0	70595	IND	6B	ARR	ARR	ARR		DeWitt,P
	0.0- 6.0	70596	IND	6C	ARR	ARR	ARR		Huber,P
	0.0- 6.0	70597	IND	6D	ARR	ARR	ARR		McManus,J
	0.0- 6.0	71710	IND	6E	ARR	ARR	ARR		Schramm,J
	0.0- 6.0	71782	IND	6F	ARR	ARR	ARR		Sheppard,K
	0.0- 6.0	73632	IND	6G	ARR	ARR	ARR		Fogg,S
4085 Internship Prerequisites: Senior status; must have completed 24 hours in major.	0.0- 6.0	70598	IND	6A	ARR	ARR	ARR		Huber,P
4097 Senior Project Prerequisites: History 2790 and senior standing.	3.0- 3.0	71777	LEC	1A	ARR	ARR	ARR		Fogg,S

Info Science & Technology

1551	Implementing Information Systems: User Perspective	3.0- 3.0	70599	LEC	1A	MWF	09:00 - 09:50 am	TMH	00251	Bates,C
1552	Implementing Information Systems: Data Perspective Prerequisite: A grade of "C" or better in IS&T 1551.	3.0- 3.0	70602	LEC	1A	MWF	08:00 - 08:50 am	TMH	00251	Hilgers,M
1750	Introduction to Management Information Systems	3.0- 3.0		LEC	1A	MF	01:00 - 01:50 pm	TMH	00251	Chiu,Y
3000	Special Problems Prerequisite: Consent of instructor required.	3.0- 3.0	70601	LAB	3A	W	01:00 - 01:50 pm	TMH	00251	Chiu,Y
		0.0- 6.0	70605	IND	6A	ARR	ARR	ARR		Flachsbart,B
		0.0- 6.0	71011	IND	6B	ARR	ARR	ARR		Hilgers,M
		0.0- 6.0	71123	IND	6C	ARR	ARR	ARR		Nah,F
		0.0- 6.0	71196	IND	6D	ARR	ARR	ARR		Yu,W
3131	Computing Internals And Operating Systems Prerequisite: A grade of "C" or better in either IS&T 1552 or Comp Sci 1575.	3.0- 3.0	70603	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00254	Flachsbart,B
3333	Data Networks and Information Security Prerequisites: IS&T 1750; IS&T 1552 or Comp Sci 1510.	3.0- 3.0	72893	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00313	Twyman,N
3343	Systems Analysis Prerequisite: IS&T 3423.	3.0- 3.0	71036	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00313	Yu,W

Info Science & Technology

4000	Special Problems	0.0- 6.0	73660	IND	6A	ARR	ARR	ARR		Lea,B
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Info Science & Technology

4099	Undergraduate Research	0.0- 6.0	70606	IND	6A	ARR	ARR	ARR		Hall,R
		0.0- 6.0	71455	IND	6B	ARR	ARR	ARR		Lea,B
		0.0- 6.0	71898	IND	6C	ARR	ARR	ARR		Nah,F
4257	Network Economy Prerequisite: Econ 1100 or Econ 1200. (Co-listed with Econ 4130)	3.0- 3.0	73194	LEC	1A	CANCELLED				
4261	Information Systems Project Management Prerequisites: IST 1552 or Comp Sci 1510; Senior Standing.	3.0- 3.0	71022	LEC	1A	CANCELLED				
4335	Fundamentals of Mobile Technology for Business Prerequisites: IS&T 3333.	3.0- 3.0	71895	LEC	1A	MWF	01:00 - 01:50 pm	CS	00209	Bates,C
4444	Introduction to Data Warehouses Prerequisites: IS&T 3423.	3.0- 3.0	73586	LEC	1A	TTh	02:00 - 03:15 pm	FUL	00107A	Yu,W
4641	Digital Commerce and the Internet of Things Prerequisites: IS&T 1750 and at least Sophomore standing.	3.0- 3.0	70604	LEC	1A	MWF	02:00 - 02:50 pm	CS	00209	Bates,C
4654	Web and Digital Media Development	3.0- 3.0	71404	LEC	1A	TTh	11:00 - 12:15 pm	CSF	00114	Hall,R
5000	Special Problems	0.0- 6.0	71496	IND	6A	ARR	ARR	ARR		Hilgers,M
		0.0- 6.0	71497	IND	6B	ARR	ARR	ARR		Lea,B
		0.0- 6.0	71690	IND	6C	ARR	ARR	ARR		Yu,W
5099	Research	0.0-15.0	71014	IND	6A	ARR	ARR	ARR		Flachsbart,B
		0.0-15.0	71015	IND	6B	ARR	ARR	ARR		Hall,R
		0.0-15.0	71016	IND	6C	ARR	ARR	ARR		Hilgers,M
		0.0-15.0	71017	IND	6D	ARR	ARR	ARR		Lea,B
		0.0-15.0	71181	IND	6E	ARR	ARR	ARR		Nah,F
		0.0-15.0	71280	IND	6F	ARR	ARR	ARR		Siau,K
		0.0-15.0	72054	IND	6G	ARR	ARR	ARR		Twyman,N
		0.0-15.0	72895	IND	6H	ARR	ARR	ARR		Yu,W
5131	Foundations of Computer Architecture Prerequisites: Graduate Standing, strong programming knowledge.	3.0- 3.0	73195	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00254	Flachsbart,B
5251	Technological Innovation Management and Leadership Prerequisite: Senior or Graduate Standing.	3.0- 3.0	71659	LEC	1A	M	07:00 - 09:30 pm	FUL	00107A	Nah,F

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5420 Business Analytics and Data Science Prerequisites: Calculus, Statistics, and Programming knowledge.	3.0- 3.0	72275	LEC	1A	MWF	11:00 - 11:50 am	FUL	00107A	Hilgers,M
5520 Data Science and Machine Learning with Python Prerequisites: One of Stat 3111, Stat 3113, Stat 3115, Stat 3117 and either IS&T 1552 or Comp Sci 1510; for Graduate Students: Graduate Standing and Knowledge of Calculus, Statistics, and Programming.	3.0- 3.0	73196	LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00B12A	Chen,L
5885 Human-Computer Interaction Prerequisite: Psych 1101.	3.0- 3.0	72153	LEC	1A	T	07:00 - 09:30 pm	FUL	00107A	Nah,F
5887 Human-Computer Interaction Evaluation Prerequisite: Preceded or accompanied by IS&T 5885.	3.0- 3.0 3.0- 3.0	71038	LEC LAB	1A 3A	ARR ARR	ARR ARR	ARR ARR		Hall,R Hall,R
6261 Advanced Information Systems Project Management Prerequisites: IS&T MS Entrance requirements, with strong programming knowledge.	3.0- 3.0	71660	LEC	1A	CANCELLED				
6335 Mobile Technology for Business Prerequisites: IS&T 3333 or equivalent.	3.0- 3.0	71856	LEC	1A	MWF	01:00 - 01:50 pm	CS	00209	Bates,C
6336 Foundations of Internet Computing Prerequisite: IS&T MS entrance requirements, including solid programming knowledge.	3.0- 3.0	72426	LEC	1A	TTh	09:30 - 10:45 am	FUL	00107A	Twyman,N
6444 Essentials of Data Warehouses Prerequisite: IS&T 3423 or equivalent relational database experience. (Co-listed with ERP 6444)	3.0- 3.0	71406	LEC	1A	TTh	02:00 - 03:15 pm	FUL	00107A	Yu,W
6445 Database Marketing Prerequisite: Statistics understanding, programming understanding, familiarity with spreadsheets.	3.0- 3.0	71701	LEC	1A	W	07:00 - 09:30 pm	BERTELS	00B12A	Merz,C
6641 Advanced Digital Commerce and the Internet of Things Prerequisites: Knowledge of management information systems.	3.0- 3.0	71993	LEC	1A	MWF	02:00 - 02:50 pm	CS	00209	Bates,C
6654 Advanced Web and Digital Media Development	3.0- 3.0	72274	LEC	1A	TTh	11:00 - 12:15 pm	CSF	00114	Hall,R

Marketing

3000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	72053	IND	6A	ARR	ARR	ARR		Stanley,S
3110 Marketing	3.0- 3.0	71421	LEC	1A	MWF	10:00 - 10:50 am	BCH	00124	Stanley,S
3210 Consumer Behavior Prerequisite: MKT 3110.	3.0- 3.0	71992	LEC	1A	TTh	02:00 - 03:15 pm	CS	00203	Fukawa,N
4580 Marketing Strategy Prerequisite: MKT 3110 or MKT 5105 or Eng Mgt 3510.	3.0- 3.0	73192	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00317	Fukawa,N
5099 Research Prerequisite: Consent of instructor required.	0.0- 9.0	71677	IND	6A	ARR	ARR	ARR		Fukawa,N
6580 Advanced Marketing Strategy Prerequisites: MKT 3110 or MKT 6622 or ENG MGT 3510.	3.0- 3.0	73193	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00317	Fukawa,N

Materials Science & Eng

4850 Fundamentals Of Protective Coating I Prerequisite: Chem 1320. (Co-listed with Chem 4850)	3.0- 3.0	73428	LEC	1A	MWF	12:00 - 12:50 pm	CH	00104	Schuman,T
5000 Special Problems	0.0- 6.0 0.0- 6.0 0.0- 6.0	71223 71284 71495	IND IND IND	6A 6B 6C	ARR ARR ARR	ARR ARR ARR	ARR ARR ARR		Hilmas,G Miller,F Moats,M

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5001 Special Topics Prerequisites: Senior Standing	3.0- 3.0	73603	LEC	1A	T	08:00 - 10:45 am	HARR	00107	Dogan,F
5010 Seminar	0.0- 6.0	71175	RSD	2A	Th	03:00 - 04:50 pm	MCNT	00204	Moats,M
5040 Oral Examination	0.0- 0.0	71480	IND	6A	ARR	ARR	ARR		Huebner,W
5210 Tissue Engineering I Prerequisite: Senior standing. (Co-listed with Bio Sci 5240)	3.0- 3.0	71985	LEC	1A	TTh	09:30 - 10:45 am	CH	00103	Semon,J
5230 Energy Materials Prerequisite: Senior standing.	3.0- 3.0	71813	LEC	1A	M	07:00 - 09:30 pm	BERTELS	00B12A	Dogan,F
5850 Introduction to Coating Chemistry Prerequisite: Chem 1320 or Met Eng 1210. (Co-listed with Chem 5850)	3.0- 3.0	73429	LEC	1A	MWF	12:00 - 12:50 pm	CH	00104	Schuman,T
6000 Special Problems	0.0- 6.0	72399	IND	6A	ARR	ARR	ARR		Huebner,W
6001 Special Topics Prerequisites: Graduate Standing.	3.0- 3.0	73604	LEC	1A	T	08:00 - 10:45 am	HARR	00107	Dogan,F
6050 Continuous Registration	1.0- 1.0	71481	IND	6A	ARR	ARR	ARR		Moats,M
6099 Research	0.0-15.0	72592	IND	6A	ARR	ARR	ARR		Asle Zaeem,M
	0.0-15.0	72593	IND	6B	ARR	ARR	ARR		Bartlett,L
	0.0-15.0	72594	IND	6C	ARR	ARR	ARR		Brow,R
	0.0-15.0	72595	IND	6D	ARR	ARR	ARR		Dogan,F
	0.0-15.0	72596	IND	6E	ARR	ARR	ARR		Fahrenheitz,W
	0.0-15.0	72597	IND	6F	ARR	ARR	ARR		Hilmas,G
	0.0-15.0	72598	IND	6G	ARR	ARR	ARR		Huebner,W
	0.0-15.0	72599	IND	6H	ARR	ARR	ARR		Kumar,A
	0.0-15.0	72600	IND	6J	ARR	ARR	ARR		Moats,M
	0.0-15.0	72601	IND	6K	ARR	ARR	ARR		Nath,M
	0.0-15.0	72602	IND	6L	ARR	ARR	ARR		Newkirk,J
	0.0-15.0	72603	IND	6M	ARR	ARR	ARR		Lipke,D
	0.0-15.0	72604	IND	6N	ARR	ARR	ARR		O'Malley,R
	0.0-15.0	72605	IND	6P	ARR	ARR	ARR		Wen,H
	0.0-15.0	72606	IND	6Q	ARR	ARR	ARR		Richards,V
	0.0-15.0	72607	IND	6R	ARR	ARR	ARR		Schlesinger,M
	0.0-15.0	72696	IND	6T	ARR	ARR	ARR		Schwartz,R
	0.0-15.0	72868	IND	6U	ARR	ARR	ARR		Smith,J
	0.0-15.0	73120	IND	6V	ARR	ARR	ARR		Van Aken,D
	0.0-15.0	73372	IND	6W	ARR	ARR	ARR		Zhou,C
	0.0-15.0	73667	IND	6X	ARR	ARR	ARR		Xu,M
6120 Thermodynamics and Phase Equilibria Prerequisite: Graduate standing, or undergraduate standing with instructor and advisor approval.	3.0- 3.0	73373	LEC	1A	MWF	09:00 - 09:50 am	EMGT	00201	Fahrenheitz,W
6130 Kinetic Theory for Materials Prerequisite: Graduate standing, or undergraduate standing with instructor and advisor approval.	3.0- 3.0	72231	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00245	O'Malley,R
6210 Tissue Engineering II Prerequisite: Graduate standing. (Co-listed with Bio Sci 6240)	3.0- 3.0	71987	LEC	1A	TTh	09:30 - 10:45 am	CH	00103	Semon,J
6220 Advanced Energy Materials Prerequisite: Graduate standing.	3.0- 3.0	71814	LEC	1A	M	07:00 - 09:30 pm	BERTELS	00B12A	Dogan,F

Mathematics

1103 Fundamentals Of Algebra Prerequisite: Entrance requirements.	3.0- 3.0	71227	LEC	1A	MWF	11:00 - 11:50 am	TMH	00295	Bailey,H
	3.0- 3.0	73096	LEC	1B	CANCELLED				
1120 College Algebra Prerequisite: By placement examination.	5.0- 5.0	70607	LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00B10	Sahan,S
			LEC	1A	T	12:30 - 01:20 pm	BERTELS	00B12A	
			LEC	1A	ARR	ARR	ARR		
	5.0- 5.0	71531	LEC	1B	MWF	10:00 - 10:50 am	BERTELS	00B10	Sahan,S
			LEC	1B	T	01:30 - 02:20 pm	BERTELS	00B12A	
			LEC	1B	ARR	ARR	ARR		
	5.0- 5.0	71226	LEC	1C	MWF	10:00 - 10:50 am	BERTELS	00B10	Sahan,S
			LEC	1C	T	02:30 - 03:20 pm	BERTELS	00B12A	
			LEC	1C	ARR	ARR	ARR		
	5.0- 5.0	72155	LEC	1D	MWF	10:00 - 10:50 am	BERTELS	00B10	Sahan,S
			LEC	1D	Th	12:30 - 01:20 pm	TMH	00250	
			LEC	1D	ARR	ARR	ARR		

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	5.0- 5.0	72156	LEC	1E	MWF	10:00 - 10:50 am	BCH	00121	Sahan,S
			LEC	1E	Th	01:30 - 02:20 pm	BERTELS	00B12B	
			LEC	1E	ARR	ARR	ARR		
	5.0- 5.0	72157	LEC	1F	MWF	10:00 - 10:50 am	BCH	00121	Sahan,S
			LEC	1F	Th	02:30 - 03:20 pm	BERTELS	00B12B	
			LEC	1F	ARR	ARR	ARR		
1140 College Algebra Prerequisite: By placement examination. Class will meet daily Jan. 17 through March 14. Final exam Wed., March 14th 4:00-6:00 pm.	3.0- 3.0	70608	LEC	1A	MTWThF	08:00 - 08:50 am	CH	00104	Hassan,J
									"Restricted enrollment: contact math department for more information".
1160 Trigonometry Prerequisite: Math 1120 or 1140 with a grade of "C" or better; or by placement exam. Sections C, D, E, F, G, and H meet MWF with final exam Thu., Apr. 19th 4:00-6:00 pm. Sections C, D, E, F, G, and H begin Mon., Feb. 5th and section A begins Tue., Mar. 20th. Section A meets daily until the end of the semester.	2.0- 2.0	70611	LEC	1A	ARR	ARR	ARR		Hassan,J
	2.0- 2.0	70609	LEC	1C	MWF	08:00 - 08:50 am	CS	00202	Ong,V
	2.0- 2.0	70610	LEC	1D	MWF	09:00 - 09:50 am	CSF	00G5E	Chen-Murphy,X
	2.0- 2.0	71230	LEC	1E	MWF	10:00 - 10:50 am	CS	00202	Bailey,H
	2.0- 2.0	71231	LEC	1F	MWF	01:00 - 01:50 pm	EECH	00101	
	2.0- 2.0	72050	LEC	1G	MWF	01:00 - 01:50 pm	BCH	00101	Bailey,H
	2.0- 2.0	72379	LEC	1H	MWF	09:00 - 09:50 am	TMH	00250	Bailey,H
1190 Success for Calculus Prerequisites: Consent of instructor.	4.0- 4.0		LEC	1A	MWF	10:00 - 10:50 am	ROLLA	000G5	Abobaker,H
	4.0- 4.0		LEC	1B	MWF	11:00 - 11:50 am	ROLLA	000G5	Kinder,K
	4.0- 4.0		LEC	1C	MWF	01:00 - 01:50 pm	ROLLA	000G5	Kinder,K
	4.0- 4.0	72987	LAB	3A	ARR	ARR	ARR		Abobaker,H
	4.0- 4.0	72989	LAB	3B	ARR	ARR	ARR		Kinder,K
	4.0- 4.0	72991	LAB	3C	ARR	ARR	ARR		Kinder,K
1212 Business Calculus Prerequisite: A grade of "C" or better in either 1120 or Math 1140; or by placement exam.	4.0- 4.0		LEC	1A	MWF	02:00 - 02:50 pm	BCH	00101	Fitch,S
	4.0- 4.0	70613	LAB	3A	TTh	02:00 - 02:50 pm	BCH	00101	Fitch,S
1214 Calculus For Engineers I Prerequisites: A grade of "C" or better in both Math 1160 and one of Math 1120 or Math 1140; or by placement exam. All students in Math 1214 are scheduled for exams at 5:00pm on Tues., Feb. 6, Mar. 6, Apr. 3, and May 1. Students in Math 1214 must enroll in a lab first then a lecture.	0.0- 0.0	72477	LEC	1A	MWF	10:00 - 10:50 am	TMH	00199	Fitch,S
									See 'Notes' for Evening Exams
	0.0- 0.0	72478	LEC	1B	MWF	11:00 - 11:50 am	BCH	00125	Abobaker,H
									See 'Notes' for Evening Exams
	0.0- 0.0	72479	LEC	1C	MWF	01:00 - 01:50 pm	BCH	00125	Runnion,P
									See 'Notes' for Evening Exams
	4.0- 4.0	72480	LAB	3A	T	08:00 - 09:15 am	ROLLA	000G5	
									See 'Notes' for Evening Exams
	4.0- 4.0	72481	LAB	3B	T	09:30 - 10:45 am	ROLLA	000G5	
									See 'Notes' for Evening Exams
	4.0- 4.0	72482	LAB	3C	T	11:00 - 12:15 pm	ROLLA	000G5	
									See 'Notes' for Evening Exams
	4.0- 4.0	72483	LAB	3D	T	12:30 - 01:45 pm	ROLLA	000G5	
									See 'Notes' for Evening Exams
	4.0- 4.0	72484	LAB	3E	Th	08:00 - 09:15 am	ROLLA	000G5	
									See 'Notes' for Evening Exams
	4.0- 4.0	72485	LAB	3F	Th	09:30 - 10:45 am	ROLLA	000G5	
									See 'Notes' for Evening Exams
	4.0- 4.0	72486	LAB	3G	Th	11:00 - 12:15 pm	ROLLA	000G5	
									See 'Notes' for Evening Exams
	4.0- 4.0	72487	LAB	3H	Th	12:30 - 01:45 pm	ROLLA	000G5	
									See 'Notes' for Evening Exams
	4.0- 4.0	72488	LAB	3J	T	02:00 - 03:15 pm	PHYS	00127	
									See 'Notes' for Evening Exams
	4.0- 4.0	72489	LAB	3K	T	03:30 - 04:45 pm	PHYS	00127	
									See 'Notes' for Evening Exams
	4.0- 4.0	72490	LAB	3L	Th	02:00 - 03:15 pm	PHYS	00127	
									See 'Notes' for Evening Exams
	4.0- 4.0	72491	LAB	3M	Th	03:30 - 04:45 pm	PHYS	00127	
									See 'Notes' for Evening Exams
	4.0- 4.0	72492	LAB	3N	T	06:00 - 07:15 pm	PHYS	00127	
									See 'Notes' for Evening Exams
	4.0- 4.0	72493	LAB	3P	T	07:30 - 08:45 pm	PHYS	00127	
									See 'Notes' for Evening Exams
	4.0- 4.0	72494	LAB	3Q	Th	06:00 - 07:15 pm	PHYS	00127	
									See 'Notes' for Evening Exams

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
1215 Calculus For Engineers II Prerequisites: Math 1160 and either Math 1208 or Math 1214 both with a grade of "C" or better; or by placement exam. All students in Math 1215 are scheduled for exams at 5:00pm on Thur., Feb. 1, Thur., Feb. 22, Thur., Mar. 22, Thur., Apr. 26. Students in Math 1215 must enroll in a lab first then a lecture. Math 1215 is a clicker class.	4.0- 4.0	72495	LAB	3R	Th	07:30 - 08:45 pm	PHYS	00127	
									See 'Notes' for Evening Exams
	4.0- 4.0	72648	LAB	3T	Th	08:00 - 09:15 am	CS	00204	
									See 'Notes' for Evening Exams
	4.0- 4.0	72649	LAB	3U	Th	09:30 - 10:45 am	CS	00204	
									See 'Notes' for Evening Exams
	0.0- 0.0	72496	LEC	1A	MWF	09:00 - 09:50 am	BCH	00125	Kinder,K
									See 'Notes' for Evening Exams
	0.0- 0.0	72497	LEC	1B	MWF	10:00 - 10:50 am	BCH	00125	Kinder,K
									See 'Notes' for Evening Exams
	0.0- 0.0	72498	LEC	1C	MWF	12:00 - 12:50 pm	TMH	00199	Ong,V
									See 'Notes' for Evening Exams
	4.0- 4.0	72499	LAB	3A	T	08:00 - 09:15 am	CS	00202	
									See 'Notes' for Evening Exams
	4.0- 4.0	72500	LAB	3B	T	09:30 - 10:45 am	CS	00202	
									See 'Notes' for Evening Exams
	4.0- 4.0	72501	LAB	3C	Th	08:00 - 09:15 am	CS	00202	
									See 'Notes' for Evening Exams
	4.0- 4.0	72502	LAB	3D	Th	09:30 - 10:45 am	CS	00202	
									See 'Notes' for Evening Exams
	4.0- 4.0	72503	LAB	3E	T	08:00 - 09:15 am	CS	00204	
									See 'Notes' for Evening Exams
	4.0- 4.0	72504	LAB	3F	T	09:30 - 10:45 am	CS	00204	
									See 'Notes' for Evening Exams
	4.0- 4.0	72505	LAB	3G	T	11:00 - 12:15 pm	CS	00204	
									See 'Notes' for Evening Exams
	4.0- 4.0	72506	LAB	3H	T	12:30 - 01:45 pm	CS	00204	
								See 'Notes' for Evening Exams	
4.0- 4.0	72507	LAB	3L	Th	11:00 - 12:15 pm	CS	00204		
								See 'Notes' for Evening Exams	
4.0- 4.0	72508	LAB	3M	Th	12:30 - 01:45 pm	CS	00204		
								See 'Notes' for Evening Exams	
4.0- 4.0	72509	LAB	3N	T	02:00 - 03:15 pm	EECH	00111		
								See 'Notes' for Evening Exams	
4.0- 4.0	72510	LAB	3P	T	03:30 - 04:45 pm	EECH	00103		
								See 'Notes' for Evening Exams	
4.0- 4.0	72511	LAB	3Q	Th	02:00 - 03:15 pm	EECH	00111		
								See 'Notes' for Evening Exams	
4.0- 4.0	72512	LAB	3R	Th	03:30 - 04:45 pm	EECH	00103		
								See 'Notes' for Evening Exams	
4.0- 4.0	72513	LAB	3T	T	02:00 - 03:15 pm	BCH	00216		
								See 'Notes' for Evening Exams	
4.0- 4.0	72514	LAB	3U	T	03:30 - 04:45 pm	EECH	00111		
								See 'Notes' for Evening Exams	
4.0- 4.0	72515	LAB	3V	Th	02:00 - 03:15 pm	BCH	00216		
								See 'Notes' for Evening Exams	
4.0- 4.0	72516	LAB	3W	Th	03:30 - 04:45 pm	EECH	00111		
								See 'Notes' for Evening Exams	
2002 Cooperative Work Training	0.0- 6.0	70614	IND	6A	ARR	ARR	ARR		Clark,S
2222 Calculus with Analytic Geometry III Prerequisites: Math 1215 or Math 1221 with a grade of "C" or better. All students in Math 2222 are scheduled for exams at 5:00pm on Mon., Feb. 12, Mon., Mar. 12, Mon., Apr 9, Mon., April 30. Students in Math 2222 must enroll in lab and lecture.	0.0- 0.0	72743	LEC	1A	MWF	09:00 - 09:50 am	TMH	00199	Brigham,R
									See 'Notes' for Evening Exams
	0.0- 0.0	72744	LEC	1B	MWF	12:00 - 12:50 pm	BERTELS	00B10	Charatonik,W
									See 'Notes' for Evening Exams
	0.0- 0.0	72745	LEC	1C	MWF	01:00 - 01:50 pm	BERTELS	00B10	Grow,D
									See 'Notes' for Evening Exams
	4.0- 4.0	72746	LAB	3A	T	08:00 - 09:15 am	BCH	00314	
									See 'Notes' for Evening Exams
	4.0- 4.0	72747	LAB	3B	T	09:30 - 10:45 am	BCH	00216	
									See 'Notes' for Evening Exams
	4.0- 4.0	72748	LAB	3C	T	11:00 - 12:15 pm	BCH	00314	
									See 'Notes' for Evening Exams
	4.0- 4.0	72749	LAB	3D	Th	08:00 - 09:15 am	BCH	00314	
									See 'Notes' for Evening Exams
	4.0- 4.0	72750	LAB	3E	Th	09:30 - 10:45 am	BCH	00216	
									See 'Notes' for Evening Exams

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	4.0- 4.0	72751	LAB	3F	Th	11:00 - 12:15 pm	BCH	00314	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72752	LAB	3G	T	02:00 - 03:15 pm	CSF	00G5E	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72753	LAB	3H	Th	02:00 - 03:15 pm	CSF	00G5E	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72754	LAB	3J	T	08:00 - 09:15 am	CSF	00G5D	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72755	LAB	3K	T	12:30 - 01:45 pm	IDE	00206	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72756	LAB	3L	Th	08:00 - 09:15 am	CSF	00G5D	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72757	LAB	3M	Th	12:30 - 01:45 pm	IDE	00206	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72758	LAB	3N	T	02:00 - 03:15 pm	IDE	00206	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72759	LAB	3P	T	03:30 - 04:45 pm	IDE	00206	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72760	LAB	3Q	Th	02:00 - 03:15 pm	IDE	00206	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72761	LAB	3R	Th	03:30 - 04:45 pm	IDE	00206	
			See 'Notes' for Evening Exams						
3000	Special Problems	0.0- 6.0	IND	6A	ARR	ARR	ARR		
3108	Linear Algebra I	3.0- 3.0	LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00B12B	Sahan,S
	Prerequisite: Math 1215 or 1221 or 2222 with a grade of "C" or better.	3.0- 3.0	LEC	1B	MWF	10:00 - 10:50 am	CSF	00G5E	Ong,V
3109	Foundations Of Mathematics	3.0- 3.0	LEC	1C	MWF	02:00 - 02:50 pm	TMH	00199	Runnion,P
	Prerequisite: Math 1215 or 1221 with a grade of "C" or better.	3.0- 3.0	LEC	1A	MWF	09:00 - 09:50 am	ROLLA	000G5	Roe,R
3304	Elementary Differential Equations	3.0- 3.0	LEC	1A	MWF	09:00 - 09:50 am	FUL	00227	Yeni,G
	Prerequisite: Math 2222 with a grade of "C" or better. All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 15; Mar. 22; and Apr. 26.	3.0- 3.0	LEC	1B	MWF	10:00 - 10:50 am	CS	00216	Jiang,N
		3.0- 3.0	LEC	1C	MWF	10:00 - 10:50 am	CSF	00G5D	Le,V
		3.0- 3.0	LEC	1D	MWF	10:00 - 10:50 am	FUL	00227	Yeni,G
		3.0- 3.0	LEC	1E	MWF	11:00 - 11:50 am	MCNT	00206	Bohner,M
		3.0- 3.0	LEC	1F	MWF	01:00 - 01:50 pm	FUL	00227	Singler,J
		3.0- 3.0	LEC	1G	MWF	02:00 - 02:50 pm	TMH	00250	Abobaker,H
		3.0- 3.0	LEC	1H	TTh	09:30 - 10:45 am	FUL	00227	Clark,S
		3.0- 3.0	LEC	1J	TTh	11:00 - 12:15 pm	TMH	00256	Insall,E
		3.0- 3.0	LEC	1K	MWF	11:00 - 11:50 am	CSF	00G5D	Le,V
		3.0- 3.0	LEC	1L	MWF	09:00 - 09:50 am	CS	00202	Hu,W
4000	Special Problems	0.0- 6.0	IND	6A	ARR	ARR	ARR		Insall,E
		0.0- 6.0	IND	6B	ARR	ARR	ARR		Singler,J
4099	Undergraduate Research	0.0- 6.0	IND	6A	ARR	ARR	ARR		Charatonik,W
	Prerequisite: Consent of instructor.	0.0- 6.0	IND	6B	ARR	ARR	ARR		Insall,E
		0.0- 6.0	IND	6C	ARR	ARR	ARR		Zhang,Y
4209	Advanced Calculus I	3.0- 3.0	LEC	1A	MWF	02:00 - 02:50 pm	ROLLA	000G5	Bohner,M
	Prerequisite: Math 2222 and Math 3109, or a 4000-level or higher mathematics course, or graduate standing.		Communication Emphasized						
4211	Advanced Calculus II	3.0- 3.0	LEC	1A	MWF	02:00 - 02:50 pm	CSF	00G5D	Charatonik,W
	Prerequisite: Math 4209.								
4530	Topics In Geometry	3.0- 3.0	LEC	1A	MWF	08:00 - 08:50 am	ROLLA	000G4	Chen-Murphy,X
	Prerequisites: MATH 3108.								

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70638	IND	6A	ARR	ARR	ARR		
5107 Combinatorics And Graph Theory Prerequisite: Comp Sci 1200 or Math 3109.	3.0- 3.0	70627	LEC	1A	TTh	02:00 - 03:15 pm	ROLLA	000G5	Brigham,R
5108 Linear Algebra II Prerequisite: Math 3108.	3.0- 3.0	72300	LEC	1A	TTh	03:30 - 04:45 pm	ROLLA	000G4	Chen-Murphy,X
5215 Introduction To Real Analysis Prerequisite: Math 4209.	3.0- 3.0	70629	LEC	1A	TTh	12:30 - 01:45 pm	ROLLA	000G4	Murphy,J
5325 Partial Differential Equations Prerequisite: Math 3304 with a grade of "C" or better.	3.0- 3.0	70630	LEC	1A	MWF	09:00 - 09:50 am	CSF	00G5D	Han,D
5530 Topics in Geometry - Graduate Option Prerequisites: MATH 3108.	3.0- 3.0	72763	LEC	1A	MWF	08:00 - 08:50 am	ROLLA	000G4	Chen-Murphy,X
5585 Introduction To Topology Prerequisite: Math 4209.	3.0- 3.0	72612	LEC	1A	MWF	12:00 - 12:50 pm	EMGT	00111	Roe,R
5737 Financial Mathematics Prerequisites: Math 1215 or Math 1221, Econ 2100 or Econ 2200 or Finance 2150 or Finance 5160, Stat 3111 or Stat 3113 or Stat 3115 or Stat 3117 or Stat 5643. (Co-listed with Econ 5337)	3.0- 3.0	71239	LEC	1A	MWF	12:00 - 12:50 pm	ROLLA	000G4	Gelles,G
6000 Special Problems	0.0- 6.0	70632	IND	6A	ARR	ARR	ARR		Akin,E
	0.0- 6.0	70633	IND	6B	ARR	ARR	ARR		Insall,E
	0.0- 6.0	71796	IND	6C	ARR	ARR	ARR		Le,V
	0.0- 6.0	71817	IND	6D	ARR	ARR	ARR		Roe,R
	0.0- 6.0	72664	IND	6E	ARR	ARR	ARR		
6001 Special Topics Prerequisites: Math 5604.	3.0- 3.0	73519	LEC	1A	TTh	11:00 - 12:15 pm	SHNK	00140	Zhang,Y
6010 Graduate Seminar	1.0- 3.0	71242	RSD	2A	ARR	ARR	ARR		Adepedjou,A
	1.0- 3.0	71249	RSD	2B	W	12:00 - 12:50 pm	ROLLA	000G5	Bohner,M
	1.0- 3.0	72613	RSD	2C	ARR	ARR	ARR		He,X
	1.0- 3.0	73681	RSD	2D	ARR	ARR	ARR		Adepedjou,A
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70639	IND	6A	ARR	ARR	ARR		Samaranayake,V
6099 Research	0.0-15.0	71004	IND	6A	ARR	ARR	ARR		Akin,E
	0.0-15.0	70637	IND	6B	ARR	ARR	ARR		Bohner,M
	0.0-15.0	70634	IND	6C	ARR	ARR	ARR		Charatonik,W
	0.0-15.0	70635	IND	6D	ARR	ARR	ARR		Clark,S
	0.0-15.0	70636	IND	6E	ARR	ARR	ARR		Grow,D
	0.0-15.0	71245	IND	6F	ARR	ARR	ARR		He,X
	0.0-15.0	71477	IND	6G	ARR	ARR	ARR		Insall,E
	0.0-15.0	71578	IND	6H	ARR	ARR	ARR		Le,V
	0.0-15.0	71917	IND	6J	ARR	ARR	ARR		Roe,R
	0.0-15.0	72039	IND	6K	ARR	ARR	ARR		Singler,J
	0.0-15.0	72074	IND	6L	ARR	ARR	ARR		Zhang,Y
6106 Introduction to Ring Theory Prerequisite: Math 5105.	3.0- 3.0	73553	LEC	1A	TTh	02:00 - 03:30 pm	EMGT	00111	Insall,E
6216 Functions Of A Real Variable II Prerequisite: Must be preceded by Math 6215.	3.0- 3.0	73463	LEC	1A	MWF	10:00 - 10:50 am	HARR	00107	Grow,D
6418 Functional Analysis II Prerequisites: Math 6215 and 6417.	3.0- 3.0	73462	LEC	1A	MWF	11:00 - 11:50 am	ROLLA	000G4	Singler,J

Mechanical Engineering

1720 Introduction to Engineering Design Students must enroll in a lecture and a lab.	0.0- 0.0	70067	LEC	1A	M	08:00 - 08:50 am	BCH	00125	Schmidt,J
	0.0- 0.0	70069	LEC	1B	M	02:00 - 02:50 pm	EECH	00G31	Schmidt,J
	0.0- 0.0	71305	LEC	1C	T	08:00 - 08:50 am	TMH	00199	Schmidt,J
	0.0- 0.0	70071	LEC	1D	T	02:00 - 02:50 pm	BCH	00125	Schmidt,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	3.0- 3.0	70068	LAB	3A	W	08:00 - 08:50 am	CH	00105	Schmidt,J	
									Additional lab time for Software coverage will be by independent study.	
									See 'Notes'-Additional Meeting	
	3.0- 3.0	70070	LAB	3B	W	09:00 - 09:50 am	CH	00105	Schmidt,J	
									Additional lab time for Software coverage will be by independent study.	
									See 'Notes'-Additional Meeting	
	3.0- 3.0	71306	LAB	3C	W	10:00 - 10:50 am	CH	00105	Schmidt,J	
									Additional lab time for Software coverage will be by independent study.	
									See 'Notes'-Additional Meeting	
	3.0- 3.0	70072	LAB	3D	W	11:00 - 11:50 am	CH	00105	Schmidt,J	
									Additional lab time for Software coverage will be by independent study.	
									See 'Notes'-Additional Meeting	
	3.0- 3.0	70073	LAB	3E	W	01:00 - 01:50 pm	CH	00105	Schmidt,J	
									Additional lab time for Software coverage will be by independent study.	
									See 'Notes'-Additional Meeting	
	3.0- 3.0	70074	LAB	3F	W	02:00 - 02:50 pm	CH	00105	Schmidt,J	
									Additional lab time for Software coverage will be by independent study.	
									See 'Notes'-Additional Meeting	
	3.0- 3.0	72087	LAB	3H	F	10:00 - 10:50 am	CH	00105	Schmidt,J	
									Additional lab time for Software coverage will be by independent study.	
									See 'Notes'-Additional Meeting	
	3.0- 3.0	72436	LAB	3J	F	09:00 - 09:50 am	CH	00105	Schmidt,J	
									Additional lab time for Software coverage will be by independent study	
									See 'Notes'-Additional Meeting	
	3.0- 3.0	71215	LAB	3K	F	11:00 - 11:50 am	CH	00105	Schmidt,J	
									Additional lab time for Software coverage will be by independent study.	
									See 'Notes'-Additional Meeting	
	3.0- 3.0	71548	LAB	3L	F	01:00 - 01:50 pm	CH	00105	Schmidt,J	
									Additional lab time for Software coverage will be by independent study.	
									See 'Notes'-Additional Meeting	
	3.0- 3.0	72091	LAB	3M	F	02:00 - 02:50 pm	CH	00105	Schmidt,J	
									Additional lab time for Software coverage will be by independent study.	
									See 'Notes'-Additional Meeting	
2340	Statics and Dynamics	3.0- 3.0	70090	LEC	1A	MWF	03:00 - 03:50 pm	BCH	00213	Buckholtz,K
	Prerequisites: A grade of "C" or better in Physics 1135 or Physics 1111; preceded or accompanied by Math 2222.									
2350	Engineering Mechanics-Dynamics	2.0- 2.0	70091	LEC	1A	TTh	09:30 - 10:20 am	TMH	00199	Hutcheson,R
	Prerequisites: A grade of "C" or better in each of Civ Eng 2200 and Math 2222.									
2360	Dynamics	3.0- 3.0	71047	LEC	1A	MWF	09:00 - 09:50 am	TMH	00254	Sadeghizadeh,Z
	Prerequisite: Grade of "C" or better in each of Civ Eng 2200, Math 2222.									
	(Co-listed with Aero Eng 2360)									
		3.0- 3.0	71468	LEC	1B	TTh	12:30 - 01:45 pm	BERTELS	00B10	Kumar,N
		3.0- 3.0	72381	LEC	1C	TTh	02:00 - 03:15 pm	TMH	00199	Kumar,N
2519	Thermodynamics	3.0- 3.0	71804	LEC	1A	MWF	09:00 - 09:50 am	TMH	00295	Tsai,H
	Prerequisites: A grade of "C" or better in each of the following: Comp Sci 1570 or Comp Sci 1970 or Comp Sci 1971 or Comp Sci 1972; Math 1214 or Math 1208; Math 1215 or Math 1221; Math 2222; Physics 1135 or Physics 1111									
		3.0- 3.0	70650	LEC	1B	MWF	10:00 - 10:50 am	TMH	00256	Tsai,H
		3.0- 3.0	72437	LEC	1C	MWF	11:00 - 11:50 am	TMH	00250	Crosbie,A
		3.0- 3.0	73503	LEC	1D	MWF	01:00 - 01:50 pm	TMH	00199	Gao,J
2527	Thermal Analysis	3.0- 3.0	70654	LEC	1A	TTh	08:00 - 09:15 am	EMGT	00103	Meeks,W
	Prerequisites: Math 1215 or Math 1221; Physics 1135 or Phys 1111.									

CATALOG #	AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2653	Introduction To Manufacturing Processes	3.0- 3.0		LEC	1AA	TTh	11:00 - 11:50 am	TMH	00199	Schmid,K
	Prerequisite: Mech Eng 1720; a grade of "C" or better in Phys 1135 or Phys 1111	3.0- 3.0	70641	LAB	3A	M	01:00 - 03:30 pm	TMH	00176	Lewis,R
	Lec AA is scheduled with each lab of Mech Eng 2653. Lab C will make arrangements to meet 2 hours in an afternoon for the first five weeks.	3.0- 3.0	70642	LAB	3B	M	04:00 - 06:30 pm	TMH	00176	Lewis,R
		3.0- 3.0	71327	LAB	3C	T	08:15 - 10:45 am	TMH	00176	Lewis,R
				See 'Notes'-Additional Meeting						
		3.0- 3.0	70643	LAB	3D	T	12:00 - 02:30 pm	TMH	00176	Lewis,R
		3.0- 3.0	70644	LAB	3E	T	03:00 - 05:30 pm	TMH	00176	Lewis,R
		3.0- 3.0	70645	LAB	3F	W	01:00 - 03:30 pm	TMH	00176	Lewis,R
		3.0- 3.0	71117	LAB	3G	Th	12:00 - 02:30 pm	TMH	00176	Lewis,R
		3.0- 3.0	71225	LAB	3H	Th	03:00 - 05:30 pm	TMH	00176	Lewis,R
		3.0- 3.0	71328	LAB	3J	F	01:00 - 03:30 pm	TMH	00176	Lewis,R
2761	Introduction To Design	3.0- 3.0		LEC	1A	MW	03:00 - 03:50 pm	BCH	00125	Hutcheson,R
	Prerequisites: Mech Eng 1720, Mech Eng 2653, preceded or accompanied by Civ Eng 2200; a grade of "C" or better in each of the following: Math 1214 or Math 1208; Physics 1135 or Physics 1111.	3.0- 3.0	71346	LAB	3A	F	01:00 - 01:50 pm	TMH	00200	Hutcheson,R
		3.0- 3.0	71347	LAB	3B	F	02:00 - 02:50 pm	TMH	00200	Hutcheson,R
		3.0- 3.0	71348	LAB	3C	F	03:00 - 03:50 pm	TMH	00200	Hutcheson,R
		3.0- 3.0	72438	LAB	3D	F	12:00 - 12:50 pm	TMH	00200	Hutcheson,R
3002	Cooperative Engineering Training	0.0- 6.0	70646	IND	6A	ARR	ARR	ARR		Nisbett,J
3131	Thermofluid Mechanics I	3.0- 3.0	70656	LEC	1A	TTh	08:00 - 09:15 am	BERTELS	00B10	Duan,L
	Prerequisite: A grade of "C" or better in Mech Eng 2519.	3.0- 3.0	70655	LEC	1B	TTh	11:00 - 12:15 pm	IDE	00206	Wang,C
3313	Machine Dynamics	3.0- 3.0	72088	LEC	1B	MWF	11:00 - 11:50 am	TMH	00199	MacSithigh,G
	Prerequisites: A grade of "C" or better in each of the following: Comp Sci 1570 or Comp Sci 1970 or Comp Sci 1971 or Comp Sci 1972; Mech Eng 2360 or Aero Eng 2360; Math 1214 or Math 1208; Math 1215 or Math 1221; Math 2222; Physics 1135 or Physics 1111.									
3411	Modeling and Analysis of Dynamic Systems	3.0- 3.0	70648	LEC	1A	MWF	08:00 - 08:50 am	MCNT	00216	Kumar,N
	Prerequisites: A grade of "C" or better in each of the following: Comp Sci 1570 or Comp Sci 1970 or Comp Sci 1971 or Comp Sci 1972; Mech Eng 2360 or Aero Eng 2360; Math 1214 or Math 1208; Math 1215 or Math 1221; Math 2222; Math 3304; Physics 1135 or Physics 1111; Physics 2135 or Physics 2111.	3.0- 3.0	70649	LEC	1B	MWF	09:00 - 09:50 am	MCNT	00216	Krishnamurthy,K
		3.0- 3.0	73504	LEC	1C	MWF	10:00 - 10:50 am	TMH	00254	Krishnamurthy,K
3521	Applied Thermodynamics	3.0- 3.0	70651	LEC	1A	MWF	10:00 - 10:50 am	TMH	00295	Homan,K
	Prerequisite: A grade of "C" or better in Mech Eng 2519.	3.0- 3.0	71544	LEC	1B	TTh	08:00 - 09:15 am	TMH	00295	Han,D
		3.0- 3.0	73505	LEC	1C	TTh	09:30 - 10:45 am	BERTELS	00B10	Koylu,U
3525	Heat Transfer	3.0- 3.0	71851	LEC	1A	MWF	09:00 - 09:50 am	BCH	00124	Crosbie,A
	Prerequisites: A grade of "C" or better in each of Comp Sci 1570 or Comp Sci 1970 or Comp Sci 1971 or Comp Sci 1972, Math 3304, Mech Eng 2519.	3.0- 3.0	70653	LEC	1B	MWF	01:00 - 01:50 pm	PHYS	00104	Yang,X
3653	Manufacturing	3.0- 3.0	70664	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00250	Okafor,A
	Prerequisites: Mech Eng 2653, Civ Eng 2211, and a grade of "C" or better in Civ Eng 2210.	3.0- 3.0	72439	LEC	1B	TTh	09:30 - 10:45 am	BCH	00101	Chen,L
3708	Machine Design I	3.0- 3.0	70647	LEC	1A	TTh	11:00 - 12:15 pm	BERTELS	00B10	Nisbett,J
	Prerequisites: Mech Eng 2653; accompanied or preceded by Mech Eng 2761; Met Eng 2110 or Aero Eng 3877; and a grade of "C" or better in Civ Eng 2210.	3.0- 3.0	73237	LEC	1B	TTh	09:30 - 10:45 am	TMH	00256	Dong,X
4000	Special Problems	0.0- 6.0	70674	IND	6A	ARR	ARR	ARR		Hutcheson,R
	Prerequisite: Consent of instructor.	0.0- 6.0	71700	IND	6B	ARR	ARR	ARR		Nisbett,J
4099	Undergraduate Research	0.0- 6.0	70679	IND	6A	ARR	ARR	ARR		Balakrishnan,S
	Prerequisite: Consent of instructor required.	0.0- 6.0	70680	IND	6B	ARR	ARR	ARR		Bristow,D
		0.0- 6.0	71386	IND	6C	ARR	ARR	ARR		Carroll,D
		0.0- 6.0	70681	IND	6D	ARR	ARR	ARR		Chandrashekhara,K
		0.0- 6.0	71387	IND	6E	ARR	ARR	ARR		Chen,L
		0.0- 6.0	70682	IND	6F	ARR	ARR	ARR		Crosbie,A
		0.0- 6.0	70683	IND	6G	ARR	ARR	ARR		Dharani,L
		0.0- 6.0	70684	IND	6H	ARR	ARR	ARR		Dong,X

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	0.0- 6.0	71104	IND	6J	ARR	ARR	ARR		Drallmeier,J	
	0.0- 6.0	70685	IND	6K	ARR	ARR	ARR		Du,X	
	0.0- 6.0	70686	IND	6L	ARR	ARR	ARR		Duan,L	
	0.0- 6.0	70687	IND	6M	ARR	ARR	ARR		Gao,J	
	0.0- 6.0	70688	IND	6N	ARR	ARR	ARR		Homan,K	
	0.0- 6.0	70689	IND	6P	ARR	ARR	ARR		Huang,X	
	0.0- 6.0	70690	IND	6Q	ARR	ARR	ARR		Isaac,K	
	0.0- 6.0	70691	IND	6R	ARR	ARR	ARR		Kinzel,E	
	0.0- 6.0	70692	IND	6T	ARR	ARR	ARR		Koylu,U	
	0.0- 6.0	70693	IND	6U	ARR	ARR	ARR		Krishnamurthy,K	
	0.0- 6.0	70694	IND	6V	ARR	ARR	ARR		Landers,R	
	0.0- 6.0	70695	IND	6W	ARR	ARR	ARR		Leu,M	
	0.0- 6.0	70696	IND	6Y	ARR	ARR	ARR		Liou,F	
	0.0- 6.0	70697	IND	6Z	ARR	ARR	ARR		Midha,A	
	0.0- 6.0	70698	IND	6AA	ARR	ARR	ARR		Nisbett,J	
	0.0- 6.0	70699	IND	6BB	ARR	ARR	ARR		Okafor,A	
	0.0- 6.0	71854	IND	6CC	ARR	ARR	ARR		Pan,H	
	0.0- 6.0	71976	IND	6DD	ARR	ARR	ARR		Park,J	
	0.0- 6.0	71977	IND	6EE	ARR	ARR	ARR		Stutts,D	
	0.0- 6.0	72225	IND	6FF	ARR	ARR	ARR		Tsai,H	
	0.0- 6.0	72226	IND	6GG	ARR	ARR	ARR		Wojnar,C	
	0.0- 6.0	72440	IND	6HH	ARR	ARR	ARR		Yang,X	
4479	Automatic Control Of Dynamic Systems Prerequisite: A grade of "C" or better in Mech Eng 3411.	3.0- 3.0	70667	LEC	1A	MWF	08:00 - 08:50 am	TMH	00199	Bristow,D
		3.0- 3.0	73024	LEC	1B	MWF	11:00 - 11:50 am	TMH	00254	Song,Y
4480	Control System Laboratory Prerequisites: Preceded or accompanied by Mech Eng 4479. Students are scheduled for one exam: time and place to be announced. ME 4480 will meet 4:00-4:50 pm in CE 125 Tues and Wed of the first week of classes. Labs begin the second week.	1.0- 1.0	70669	LAB	3A	M	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S
		1.0- 1.0	71573	LAB	3B	M	06:00 - 08:50 pm	TMH	00216	Balakrishnan,S
		1.0- 1.0	70670	LAB	3C	T	09:30 - 12:20 pm	TMH	00216	Balakrishnan,S
		1.0- 1.0	70671	LAB	3D	T	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S
		1.0- 1.0	70672	LAB	3E	W	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S
		1.0- 1.0	71465	LAB	3F	Th	09:30 - 12:20 pm	TMH	00216	Balakrishnan,S
		1.0- 1.0	70673	LAB	3G	Th	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S
		1.0- 1.0	71929	LAB	3H	W	06:00 - 08:50 pm	TMH	00216	Balakrishnan,S
4761	Engineering Design Prerequisites: Preceded or accompanied each of Mech Eng 3708, 3525, 3131, 4479.	3.0- 3.0		LEC	1A	T	12:30 - 01:45 pm	TMH	00199	Midha,A
		3.0- 3.0	70666	LAB	3A	Th	12:30 - 01:45 pm	TMH	00199	Lodagala,V
										ADDITIONAL MEETING TIME TO BE ARRANGED.
										See 'Notes'-Additional Meeting
4840	Mechanical Instrumentation Prerequisites: A grade of "C" or better in each of the following: Math 3304; Mech Eng 2519; Physics 2135 or Physics 2111.	2.0- 2.0	70657	LAB	3A	T	09:00 - 10:50 am	TMH	00317	Cottrell,M
				LAB	3A	MW	02:00 - 02:50 pm	BCH	00125	
		2.0- 2.0	70658	LAB	3B	T	11:00 - 12:50 pm	TMH	00317	Cottrell,M
				LAB	3B	MW	02:00 - 02:50 pm	BCH	00125	
		2.0- 2.0	70659	LAB	3C	T	01:00 - 02:50 pm	TMH	00317	Cottrell,M
				LAB	3C	MW	02:00 - 02:50 pm	BCH	00125	
		2.0- 2.0	70660	LAB	3D	MW	02:00 - 02:50 pm	BCH	00125	
				LAB	3D	T	03:00 - 04:50 pm	TMH	00317	Cottrell,M
		2.0- 2.0	71178	LAB	3E	MW	02:00 - 02:50 pm	BCH	00125	
				LAB	3E	W	03:00 - 04:50 pm	TMH	00317	Cottrell,M
		2.0- 2.0	71329	LAB	3F	Th	09:00 - 10:50 am	TMH	00317	Cottrell,M
				LAB	3F	MW	02:00 - 02:50 pm	BCH	00125	
		2.0- 2.0	71910	LAB	3G	MW	02:00 - 02:50 pm	BCH	00125	
				LAB	3G	Th	03:00 - 04:50 pm	TMH	00317	Cottrell,M
		2.0- 2.0	71330	LAB	3H	Th	01:00 - 02:50 pm	TMH	00317	Cottrell,M
				LAB	3H	MW	02:00 - 02:50 pm	BCH	00125	
		2.0- 2.0	71363	LAB	3J	F	12:00 - 01:50 pm	TMH	00317	Cottrell,M
				LAB	3J	MW	02:00 - 02:50 pm	BCH	00125	
		2.0- 2.0	72044	LAB	3K	Th	11:00 - 12:50 pm	TMH	00317	
				LAB	3K	MW	02:00 - 02:50 pm	BCH	00125	Cottrell,M
		2.0- 2.0	73046	LAB	3L	W	12:00 - 01:50 pm	TMH	00317	
				LAB	3L	MW	02:00 - 02:50 pm	BCH	00125	Cottrell,M
4842	Mechanical Engineering Systems Prerequisites: Mech Eng 4840, 3521, 3131, 3525, 3313. Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199.	2.0- 2.0	71571	LAB	3A	M	02:00 - 03:50 pm	TMH	00316	Stutts,D
										See 'Notes'-Additional Meeting
										Communication Emphasized
				LAB	3A	W	03:00 - 03:50 pm	TMH	00199	
										See 'Notes'-Additional Meeting
										Communication Emphasized

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	2.0- 2.0	70661	LAB	3B	T	09:00 - 10:50 am	TMH	00316	Stutts,D	
			See 'Notes'-Additional Meeting Communication Emphasized							
			LAB	3B	W	03:00 - 03:50 pm	TMH	00199		
			See 'Notes'-Additional Meeting Communication Emphasized							
	2.0- 2.0	70663	LAB	3C	T	02:00 - 03:50 pm	TMH	00316	Stutts,D	
			See 'Notes'-Additional Meeting Communication Emphasized							
			LAB	3C	W	03:00 - 03:50 pm	TMH	00199		
			See 'Notes'-Additional Meeting Communication Emphasized							
	2.0- 2.0	70662	LAB	3D	Th	09:00 - 10:50 am	TMH	00316	Stutts,D	
			See 'Notes'-Additional Meeting Communication Emphasized							
			LAB	3D	W	03:00 - 03:50 pm	TMH	00199		
			See 'Notes'-Additional Meeting Communication Emphasized							
	2.0- 2.0	71570	LAB	3E	Th	02:00 - 03:50 pm	TMH	00316	Stutts,D	
			See 'Notes'-Additional Meeting Communication Emphasized							
			LAB	3E	W	03:00 - 03:50 pm	TMH	00199		
			See 'Notes'-Additional Meeting Communication Emphasized							
	2.0- 2.0	71794	LAB	3F	W	01:00 - 02:50 pm	TMH	00316	Stutts,D	
			See 'Notes'-Additional Meeting Communication Emphasized							
			LAB	3F	W	03:00 - 03:50 pm	TMH	00199		
			See 'Notes'-Additional Meeting Communication Emphasized							
	2.0- 2.0	72045	LAB	3G	F	01:00 - 02:50 pm	TMH	00316		
			See 'Notes'-Additional Meeting Communication Emphasized							
			LAB	3G	W	03:00 - 03:50 pm	TMH	00199	Stutts,D	
			See 'Notes'-Additional Meeting Communication Emphasized							
5000	Special Problems	0.0- 6.0	70700	IND	6A	ARR	ARR	ARR	Leu,M	
		0.0- 6.0	70701	IND	6B	ARR	ARR	ARR	Liou,F	
		0.0- 6.0	71009	IND	6C	ARR	ARR	ARR	Okafor,A	
		0.0- 6.0	71697	IND	6D	ARR	ARR	ARR		
5001	Special Topics	3.0- 3.0	73349	LEC	1A	TTh	02:00 - 03:15 pm	MCNT	00245	Wang,C
	Prerequisites: Math 2222, Phys 2135, or equivalent, and one from the following list: Mech Eng 3131, Aero Eng 3131, Chem Eng 3100, CHem 3410, Elec Eng 3600, Civ Eng 3330, Cer Eng 3410 (Co-listed with Aero Eng 5001)									
		3.0- 3.0	73348	LEC	1B	TTh	09:30 - 10:45 am	MCNT	00243	Park,J
			Modeling Energy Material							
		3.0- 3.0	73351	LEC	1C	MWF	10:00 - 10:50 am	BERTELS	00B12B	Carroll,D
			Energy Efficiency of Vehicles							
5211	Introduction To Continuum Mechanics	3.0- 3.0	73238	LEC	1A	TTh	03:30 - 04:45 pm	TMH	00249	Wojnar,C
	Prerequisites: Civ Eng 2210, Math 3304.									
5236	Fracture Mechanics	3.0- 3.0	70676	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00213	Dharani,L
	Prerequisite: Civ Eng 2210. (Co-listed with Aero Eng 5236)									
5282	Introduction to Composite Materials & Structures	3.0- 3.0	71032	LEC	1A	TTh	09:30 - 10:45 am	BCH	00213	Chandrashekhara,K
	Prerequisite: Civ Eng 2210. (Co-listed with Aero Eng 5282)									
5519	Advanced Thermodynamics	3.0- 3.0	72944	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00254	Pan,H
	Prerequisite: Mech Eng 2519. (Co-listed with Aero Eng 5519)									
5533	Internal Combustion Engines	3.0- 3.0	72007	LEC	1A	TTh	08:00 - 09:15 am	TMH	00256	Drallmeier,J
	Prerequisite: Mech Eng 3521.									
5537	Fuel Cell Principles	3.0- 3.0	72224	LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00106	Koylu,U
	Prerequisites: MECH ENG 3521.									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5544 Non-Intrusive Measurement Methods Prerequisites: Phys 2135; Mech 3525 or consent of instructor for non-Mech Eng majors.	3.0- 3.0	73239	LEC	1A	TTh	09:30 - 10:45 am	TMH	00249	Kinzel,E
5575 Mechanical Systems For Environmental Control Prerequisites: Mech Eng 3521 and 3525; or Mech Eng 2527 and Civ Eng 3330.	3.0- 3.0	72009	LEC	1A	T	07:00 - 09:30 pm	BCH	00121	Williams JR,G
5653 Computer Numerical Control of Manufacturing Processes Prerequisites: Preceded or accompanied by Mech Eng 3653.	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	TMH	00256	Okafor,A
	3.0- 3.0	70678	LAB	3A	F	10:00 - 11:50 am	TMH	00197	Okafor,A
	3.0- 3.0	71486	LAB	3B	W	01:00 - 02:50 pm	TMH	00197	Okafor,A
5656 Design For Manufacture Prerequisites: Mech Eng 3708, Mech Eng 3653.	3.0- 3.0	71073	LEC	1A	Th	07:00 - 09:30 pm	BERTELS	00B12A	Appelman,H
5704 Compliant Mechanism Design Prerequisites: Mech Eng 3313, Civ Eng 2210.	3.0- 3.0	70675	LEC	1A	MWF	10:00 - 10:50 am	TMH	00260	Midha,A
5757 Integrated Product And Process Design Prerequisites: Junior or above standing. (Co-listed with ENG MGT 5515)	3.0- 3.0	72453	LEC	1A	M	04:00 - 05:15 pm	CS	00209	Grantham,K
5760 Probabilistic Engineering Design Prerequisite: Mech Eng 3708 or Aero Eng 3361. (Co-listed with Aero Eng 5760)	3.0- 3.0	71331	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00249	Du,X
5830 Applied Computational Methods Prerequisite: Comp Sci 1570 or 1970 or 1981; Math 3304. (Co-listed with Aero Eng 5830)	3.0- 3.0	71757	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00121	Hosder,S Erb,A
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70729	IND	6A	ARR	ARR	ARR		Landers,R
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70730	IND	6A	ARR	ARR	ARR		Landers,R
6099 Research Prerequisite: Consent of instructor.	0.0-15.0	70703	IND	6A	ARR	ARR	ARR		Asle Zaeem,M
	0.0-15.0	71107	IND	6B	ARR	ARR	ARR		Balakrishnan,S
	0.0-15.0	70704	IND	6C	ARR	ARR	ARR		Bristow,D
	0.0-15.0	71388	IND	6D	ARR	ARR	ARR		Carroll,D
	0.0-15.0	70705	IND	6E	ARR	ARR	ARR		Chandrashekhara,K
	0.0-15.0	71389	IND	6F	ARR	ARR	ARR		Chen,L
	0.0-15.0	70706	IND	6G	ARR	ARR	ARR		Crosbie,A
	0.0-15.0	70707	IND	6H	ARR	ARR	ARR		Dharani,L
	0.0-15.0	70708	IND	6J	ARR	ARR	ARR		Dong,X
	0.0-15.0	70709	IND	6K	ARR	ARR	ARR		Drallmeier,J
	0.0-15.0	70710	IND	6L	ARR	ARR	ARR		Du,X
	0.0-15.0	70711	IND	6M	ARR	ARR	ARR		Duan,L
	0.0-15.0	70712	IND	6N	ARR	ARR	ARR		Eversman,W
	0.0-15.0	70713	IND	6P	ARR	ARR	ARR		Gao,J
	0.0-15.0	70714	IND	6Q	ARR	ARR	ARR		Homan,K
	0.0-15.0	70715	IND	6R	ARR	ARR	ARR		Hosder,S
	0.0-15.0	70716	IND	6T	ARR	ARR	ARR		Isaac,K
	0.0-15.0	70717	IND	6U	ARR	ARR	ARR		Kinzel,E
	0.0-15.0	70718	IND	6V	ARR	ARR	ARR		Koylu,U
	0.0-15.0	70719	IND	6W	ARR	ARR	ARR		Krishnamurthy,K
0.0-15.0	70720	IND	6X	ARR	ARR	ARR		Landers,R	
0.0-15.0	70721	IND	6Y	ARR	ARR	ARR		Leu,M	
0.0-15.0	70722	IND	6AA	ARR	ARR	ARR		Liou,F	
0.0-15.0	70723	IND	6BB	ARR	ARR	ARR		Midha,A	
0.0-15.0	70724	IND	6CC	ARR	ARR	ARR		Nisbett,J	
0.0-15.0	70725	IND	6DD	ARR	ARR	ARR		Okafor,A	
0.0-15.0	70726	IND	6EE	ARR	ARR	ARR		Pan,H	
0.0-15.0	70727	IND	6FF	ARR	ARR	ARR		Park,J	
0.0-15.0	70728	IND	6GG	ARR	ARR	ARR		Riggins,D	
0.0-15.0	71920	IND	6HH	ARR	ARR	ARR		Song,Y	

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	0.0-15.0	71978	IND	6J	ARR	ARR	ARR		Stutts,D
	0.0-15.0	71979	IND	6KK	ARR	ARR	ARR		Tsai,H
	0.0-15.0	72010	IND	6LL	ARR	ARR	ARR		Wang,C
	0.0-15.0	72227	IND	6MM	ARR	ARR	ARR		Wojnar,C
	0.0-15.0	72228	IND	6NN	ARR	ARR	ARR		Yang,X
	0.0-15.0	73633	IND	6PP	ARR	ARR	ARR		Han,D
6123 Viscous Fluid Flow Prerequisite: Mech Eng 5131 or Aero Eng 5131 or Mech Eng 5139 or Aero Eng 5139 or equivalent. (Co-listed with Aero Eng 6123)	3.0- 3.0	71896	LEC	1A	MWF	11:00 - 11:50 am	CS	00209	Isaac,K
6212 Advanced Finite Element Analysis Prerequisite: Mech Eng 5212 or Aero Eng 5212. (Co-listed with Aero Eng 6212)	3.0- 3.0	70702	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00260	Chandrashekhara,K
6230 Theory Of Plates Prerequisite: Math 5325.	3.0- 3.0	73240	LEC	1A	W	04:00 - 06:30 pm	BERTELS	00B12B	Birman,V
6307 Advanced Vibrations Prerequisite: Mech Eng or Aero Eng 5307. (Co-listed with Aero Eng 6307)	3.0- 3.0	73243	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00204	Stutts,D
6458 Adaptive Dynamic Programming Prerequisites: Elec Eng 5370 or Comp Eng 5310. (Co-listed with Comp Eng 6320, Elec Eng 6360, Aero Eng 6458 and Sys Eng 6215)	3.0- 3.0	72775	LEC	1A	CANCELLED				
6481 Advanced Topics in Decision and Control Prerequisite: Aero Eng 5481 or Mech Eng 5481 or equivalent. (Co-listed with Aero Eng 6481)	3.0- 3.0	73506	LEC	1A	TTh	09:30 - 10:45 am	TMH	00260	Balakrishnan,S
6527 Heat Transfer by Convection Prerequisite: Mech Eng or Aero Eng 5525. (Co-listed with Aero Eng 6527)	3.0- 3.0	71852	LEC	1A	MWF	09:00 - 09:50 am	LIB	000G14	Homan,K
6659 Advanced Topics in Design and Manufacturing Prerequisites: Mech Eng 5655 or Mech Eng 5708 or equivalent.	3.0- 3.0	71023	LEC	1A	TTh	02:00 - 03:15 pm	LIB	000G14	Liou,F
6663 Advanced Digital Design and Manufacturing Prerequisites: Mech Eng 5708 or Mech Eng 5757 or Mech Eng 5763 or equivalent.	3.0- 3.0	72089	LEC	1A	TTh	09:30 - 10:45 am	LIB	000G14	Leu,M

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2002 Cooperative Training	1.0- 2.0	70734	IND	6A	ARR	ARR	ARR		Miller,F
2110 Metallurgy For Engineers Prerequisite: Preceded or accompanied by Chem 1310, prior or concurrent. Students enrolled in Met 2110 will meet for four one-hour quiz sessions dates to be announced.	3.0- 3.0	70731	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00204	Miller,F
	3.0- 3.0	70732	LEC	1B	MWF	11:00 - 11:50 am	MCNT	00204	Miller,F
2125 Microstructural Development Laboratory Prerequisite: Accompanied or preceded by Met Eng 3130.	2.0- 2.0		LEC	1A	T	12:30 - 01:30 pm	MCNT	00211	Zhou,C
	2.0- 2.0	72298	LAB	3A	T	01:30 - 03:15 pm	MCNT	000B5	Zhou,C
	2.0- 2.0	72299	LAB	3B	Th	12:30 - 02:15 pm	MCNT	000B5	Zhou,C
2410 Applied Metal Forming Prerequisite: Chem 1100.	2.0- 2.0		LEC	1A	F	12:00 - 12:50 pm	MCNT	00243	Newkirk,J
	2.0- 2.0	72993	LAB	3A	F	01:30 - 03:30 pm	MCNT	00245	Newkirk,J
3130 Metals Microstructural Development Prerequisites: "C" or better grade in MET ENG 2110; accompanied or preceded by CER ENG 3230.	3.0- 3.0	71158	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00212	Van Aken,D
3220 Introduction To Extractive Metallurgy Prerequisites: A grade of "C" or better in either Chem 1320 or Met Eng 1210. Preceded or accompanied by Met Eng 3330 or Cer Eng 3230 or Chem Eng 2210.	3.0- 3.0	71046	LEC	1A	MWF	08:00 - 08:50 am	MCNT	00211	Moats,M

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3225 Extractive Metallurgy Laboratory Prerequisite: Preceded or accompanied by Met Eng 3220.	1.0- 1.0	71501	LAB	3A	M	01:00 - 01:50 pm	MCNT	00212	Abbey,C
			LAB	3A	M	02:00 - 03:50 pm	MCNT	00233	
	1.0- 1.0	71095	LAB	3B	W	01:00 - 01:50 pm	MCNT	00212	Abbey,C
			LAB	3B	W	02:00 - 03:50 pm	MCNT	00233	
3420 Principles Of Materials Processing Prerequisite: "C" or better grade in Met Eng 2110.	3.0- 3.0	70735	LEC	1A	MWF	11:00 - 11:50 am	MCNT	00211	Bartlett,L
3425 Metals Processing Prerequisite: Accompanied or preceded by Met Eng 3420.	1.0- 1.0	70736	LAB	3A	W	01:00 - 03:50 pm	MCNT	00244	Bartlett,L
			Communication Emphasized						
	1.0- 1.0	71183	LAB	3B	M	01:00 - 03:50 pm	MCNT	00244	Bartlett,L
			Communication Emphasized						
4000 Special Problems	0.0- 6.0	71125	IND	6A	ARR	ARR	ARR		Miller,F
	0.0- 6.0	71005	IND	6B	ARR	ARR	ARR		Newkirk,J
	0.0- 6.0	71103	IND	6C	ARR	ARR	ARR		O'Keefe,M
	0.0- 6.0	71194	IND	6D	ARR	ARR	ARR		Van Aken,D
4097 Materials Senior Design II Prerequisite: "C" or better in either Cer Eng 4096 or Met Eng 4096. (Co-listed with Cer Eng 4097)	3.0- 3.0	71301	LAB	3A	MWF	11:00 - 11:50 am	MCNT	00212	Schlesinger,M
4099 Undergraduate Research	0.0- 6.0	70737	IND	6A	ARR	ARR	ARR		Bartlett,L
	0.0- 6.0	70738	IND	6B	ARR	ARR	ARR		Miller,F
	0.0- 6.0	70739	IND	6C	ARR	ARR	ARR		Moats,M
	0.0- 6.0	70740	IND	6D	ARR	ARR	ARR		Newkirk,J
	0.0- 6.0	70741	IND	6E	ARR	ARR	ARR		
	0.0- 6.0	70742	IND	6F	ARR	ARR	ARR		Richards,V
	0.0- 6.0	70743	IND	6G	ARR	ARR	ARR		Van Aken,D
	0.0- 6.0	70744	IND	6H	ARR	ARR	ARR		Watts,J
4230 Corrosion And Its Prevention Prerequisite: "C" or better grade in either Chem 3430 or Cer Eng 3230. (Co-listed with Chem Eng 5315)	3.0- 3.0	71989	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00210	Schlesinger,M

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4325 Ferrous Microstructures Prerequisite: A grade of "C" or better in Met Eng 2110.	2.0- 2.0		LEC	1A	T	08:00 - 08:50 am	MCNT	00265	Van Aken,D
	2.0- 2.0	73389	LAB	3A	Th	08:00 - 09:50 am	MCNT	000B5	Van Aken,D

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4510 International Engineering and Design Prerequisites: Senior standing, instructor approval, Geo Eng 5211, Geo Eng 5247. (Co-listed with Geo Eng 5092 and Cer Eng 4510)	3.0- 3.0	73446	LEC	1A	ARR	ARR	ARR		Guggenberger,J
			Field Trip Required						
5001 Graduate Special Topics A grade of "C" or better in either Cer Eng 3230 or Met Eng 3220.	3.0- 3.0	73381	LEC	1A	MWF	12:00 - 12:50 pm	MCNT	00265	Moats,M
			Hydrometallurgy I						
5040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70745	IND	6A	ARR	ARR	ARR		Moats,M
5270 Mineral Processing II (Mechanics and Design) Prerequisite: Min Eng 3412. (Co-listed with Min Eng 4424)	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	MCNT	00265	Alagha,L
	3.0- 3.0	71686	LAB	3A	ARR	ARR	ARR		Alagha,L
5460 Metal Coating Processes Prerequisite: Senior or Graduate Standing.	3.0- 3.0	73382	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00245	Schlesinger,M
5510 Nondestructive Testing Prerequisite: Physics 2135 or 2111. (Co-listed with Elec Eng 5670)	3.0- 3.0	71403	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00111	Zoughi,R
5520 Electron Microscopy Prerequisites: Met Eng 3130 and Met Eng 2125, or a course in optical microscopy.	3.0- 3.0	71744	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00216	Miller,F

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5525 Scanning Electron Microscopy Lab Prerequisite: Preceded or accompanied by Met Eng 5520.	1.0- 1.0	73383	LAB	3A	W	09:00 - 11:50 am	MCNT	000B18	Wisner,C
	1.0- 1.0	73384	LAB	3B	W	01:00 - 03:50 pm	MCNT	000B18	Wisner,C
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70746	IND	6A	ARR	ARR	ARR		Moats,M
6099 Research	0.0-15.0	72582	IND	6A	ARR	ARR	ARR		Asle Zaeem,M
	0.0-15.0	72583	IND	6B	ARR	ARR	ARR		Bartlett,L
	0.0-15.0	72584	IND	6C	ARR	ARR	ARR		Kumar,A
	0.0-15.0	72585	IND	6D	ARR	ARR	ARR		Moats,M
	0.0-15.0	72586	IND	6E	ARR	ARR	ARR		Newkirk,J
	0.0-15.0	72587	IND	6F	ARR	ARR	ARR		Wen,H
	0.0-15.0	72588	IND	6G	ARR	ARR	ARR		O'Malley,R
	0.0-15.0	72589	IND	6H	ARR	ARR	ARR		Richards,V
	0.0-15.0	72590	IND	6J	ARR	ARR	ARR		Schlesinger,M
	0.0-15.0	72591	IND	6K	ARR	ARR	ARR		Van Aken,D
	0.0-15.0	72874	IND	6L	ARR	ARR	ARR		Zhou,C
	0.0-15.0	73668	IND	6M	ARR	ARR	ARR		Xu,M

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6325 Advanced Ferrous Microstructures	2.0- 2.0	73392	LEC	1A	T	08:00 - 08:50 am	MCNT	00265	Van Aken,D
	2.0- 2.0	73391	LAB	3A	Th	08:00 - 09:50 am	MCNT	000B5	Van Aken,D

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6535 Transmission Electron Microscopy Lab Prerequisite: Preceded or accompanied by Met Eng 5520.	1.0- 1.0	73385	LAB	3A	T	01:00 - 03:50 pm	MCNT	000B18	Qing,J
	1.0- 1.0	73386	LAB	3B	W	01:00 - 03:50 pm	MCNT	000B18	Qing,J

Military Science - Army ROTC

1000 Army Physical Readiness Program	1.0- 1.0	70748	LAB	3A	MWF	06:00 - 07:00 am	ARR		Richard,S
1500 Introduction to Tactical Leadership	1.0- 1.0	70747	LEC	1A	W	02:00 - 02:50 pm	HARR	00302	Dalton,R
1700 Rifle Marksmanship	1.0- 1.0	71482	LEC	1A	M	11:00 - 11:50 am	HARR	00302	Pense,C
2500 Foundations of Tactical Leadership	3.0- 3.0	71033	LEC	1A	TTh	09:30 - 10:45 am	ARR		Richard,S
2750 Basic Leadership Laboratory Prerequisite: To accompany Mil Army 2500.	1.0- 1.0	70749	LAB	3A	W	03:00 - 05:00 pm	ARR		Richard,S
3500 Leadership in Changing Environments Prerequisites: Mil Army 3250 - Exceptions to be made by Department Chair Only In Accordance With Army (Cadet Command) Policies.	3.0- 3.0		LEC	1A	TTh	08:00 - 08:50 am	HARR	00302	Richard,S
	3.0- 3.0	70751	LAB	3A	W	03:30 - 05:00 pm	ARR		Richard,S
4000 Special Problems Prerequisites: Mil Army 4250 and 4500 - Exceptions to be made by Dept Chair Only in accordance with Army (Cadet Command) policies.	0.0- 6.0	70752	IND	6A	ARR	ARR	ARR		Register,O
4500 Leadership in a Complex World Prerequisite: Mil Army 4250 - Exceptions to be made by Department Chair Only In Accordance With Army (Cadet Command) Policies.	3.0- 3.0		LEC	1A	MW	12:00 - 12:50 pm	HARR	00107	Register,O
	3.0- 3.0	70754	LAB	3A	W	03:30 - 05:00 pm	ARR		Register,O

Mining Engineering

1912 Principles Of Mining Engineering	2.0- 2.0	70755	LEC	1A	F	10:00 - 11:50 am	MCNT	00210	Johnson,C
									Field Trip Required
2126 Introduction To Mining Safety	1.0- 1.0	70756	LAB	3A	M	01:00 - 03:50 pm	MINE		Konya,T
	1.0- 1.0	71542	LAB	3B	W	01:00 - 03:50 pm	MINE		Konya,T
2412 Principles Of Mineral Processing	3.0- 3.0		LEC	1A	MW	09:00 - 09:50 am	MCNT	00206	Alagha,L
	3.0- 3.0	71169	LAB	3A	F	01:00 - 03:45 pm	ARR		
4000 Special Problems	0.0- 6.0	70760	IND	6A	ARR	ARR	ARR		Alagha,L
	0.0- 6.0	70761	IND	6B	ARR	ARR	ARR		Aouad,N
	0.0- 6.0	71192	IND	6C	ARR	ARR	ARR		Awuah-Offei,K
	0.0- 6.0	71565	IND	6D	ARR	ARR	ARR		Frimpong,S
	0.0- 6.0	71811	IND	6E	ARR	ARR	ARR		Galecki,G
	0.0- 6.0	71940	IND	6F	CANCELLED				
	0.0- 6.0	72618	IND	6H	ARR	ARR	ARR		Worsey,P

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4097	Capstone Design Project Prerequisite: Min Eng 4096.	4.0- 4.0		LEC	1A	W	10:00 - 10:50 am	MCNT	00114	
				LEC	1A	M	10:00 - 10:50 am	MCNT	00114	Aouad,N
		4.0- 4.0	70770	LAB	3A	TTh	02:15 - 04:45 pm	MCNT	00114	Aouad,N
				LAB	3A	F	02:15 - 04:45 pm	MCNT	000B14	
4099	Undergraduate Research	0.0- 6.0	70767	IND	6A	ARR	ARR	ARR		Awuah-Offei,K
		0.0- 6.0	70768	IND	6B	ARR	ARR	ARR		Frimpong,S
4113	Mine Atmosphere Control Prerequisites: Mech Eng 2527; Civ Eng 3330 or Nuc Eng 3221.	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	MCNT	00216	Slaughter,C
		3.0- 3.0	70763	LAB	3A	M	01:00 - 01:50 pm	ARR		
				LAB	3A	M	01:50 - 03:45 pm	MINE		Slaughter,C
4412	Aggregate Materials Characterization, Sizing and Dimension Stone Prerequisite: Min Eng 2412.	3.0- 3.0		LEC	1A	MW	08:00 - 08:50 am	MCNT	00206	Galecki,G
		3.0- 3.0	71696	LAB	3A	ARR	ARR	ARR		Galecki,G
4422	Coal Preparation Prerequisites: Min Eng 3412 and senior standing.	3.0- 3.0		LEC	1A	ARR	ARR	ARR		Alagha,L
		3.0- 3.0	73465	LAB	3A	ARR	ARR	ARR		Alagha,L
4424	Mineral Processing II (Mechanics and Design) Prerequisite: Min Eng 3412. (Co-listed with Met Eng 5270)	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	MCNT	00265	Alagha,L
		3.0- 3.0	71684	LAB	3A	ARR	ARR	ARR		Alagha,L
4522	Ore Reserve Analysis And Geostatistics Prerequisite: Stat 3113 or Stat 3115.	3.0- 3.0		LEC	1A	MW	10:00 - 10:50 am	MCNT	00210	Awuah-Offei,K
		3.0- 3.0	71942	LAB	3A	F	11:00 - 12:15 pm	MCNutt	234	Awuah-Offei,K
4524	Energy Economics Prerequisite: Econ 2100. (Co-listed with Econ 4540)	3.0- 3.0		LEC	1A	MWF	11:00 - 11:50 am	TMH	00249	Gelles,G
4742	Environmental Aspects Of Mining Prerequisites: Co-requisites: MIN ENG 4933 or GEO ENG 5441 or ENV ENG 5619. (Co-listed with GEO ENG 4276)	3.0- 3.0	70766	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00103	Awuah-Offei,K
4823	Rock Mechanics Prerequisites: Physics 2135; Civ Eng 2210; Geology 3310.	3.0- 3.0		LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00103	Perry,K
				Field Trip Required						
		3.0- 3.0	71562	LAB	3A	W	01:00 - 03:50 pm	MCNT	00245	Perry,K
				Field Trip Required						
		3.0- 3.0	71566	LAB	3B	Th	01:00 - 03:50 pm	MCNT	00210	Perry,K
				Field Trip Required						
4932	Underground Mining Methods And Equipment Prerequisite: Preceded or accompanied by Min Eng 3913.	3.0- 3.0	70764	LEC	1A	TTh	08:00 - 09:15 am	MCNT	00216	Aouad,N
				Field Trip Required						
4933	Surface Mining Methods And Equipment Prerequisites: Min Eng 3912; Min Eng 3512; preceded or accompanied by Min Eng 4823.	3.0- 3.0	70765	LEC	1A	MWF	04:00 - 04:50 pm	EMGT	00103	Frimpong,S
				Field Trip Required						
5113	Advanced Mine Atmosphere Control Prerequisite: Mi Eng 4113 or Consent of Instructor.	3.0- 3.0		LEC	1A	CANCELLED				
		3.0- 3.0	72409	LAB	3A	CANCELLED				
5424	Advanced Mechanics And Design Prerequisites: Mi Eng 4424 or Consent of Instructor.	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	MCNT	00265	Alagha,L
		3.0- 3.0	72407	LAB	3A	ARR	ARR	ARR		Alagha,L
5522	Advanced Ore Reserve Analysis And Geostatistics Prerequisites: Math 3304 & Stat 3113 or instructor consent.	3.0- 3.0		LEC	1A	MW	10:00 - 10:50 am	MCNT	00210	Awuah-Offei,K
		3.0- 3.0	72882	LAB	3A	ARR	ARR	ARR		Awuah-Offei,K
5742	Advanced Environmental Aspects of Mining Prerequisites: Min Eng 5932 and 5933 or instructor consent. (Co-listed with GE XXXX)	3.0- 3.0	72321	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00103	Awuah-Offei,K
5922	Advanced Tunneling & Underground Construction Techniques Prerequisites: Min Eng 4922 or Consent of Instructor.	3.0- 3.0		LEC	1A	W	01:00 - 02:50 pm	MCNT	00231	Perry,K
		3.0- 3.0	73293	LEC	1B	ARR	ARR	ARR		Perry,K
		3.0- 3.0	72323	LAB	3A	ARR	ARR	ARR		Perry,K
5933	Advanced Surface Mining Methods Prerequisites: Min Eng 4933 or Consent of Instructor.	3.0- 3.0	72404	LEC	1A	MWF	04:00 - 04:50 pm	EMGT	00103	Frimpong,S
6000	Special Problems	0.0- 6.0	71275	IND	6A	ARR	ARR	ARR		Alagha,L
		0.0- 6.0	71564	IND	6B	ARR	ARR	ARR		Aouad,N
		0.0- 6.0	71591	IND	6C	ARR	ARR	ARR		Awuah-Offei,K
		0.0- 6.0	71703	IND	6D	ARR	ARR	ARR		Frimpong,S

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6001 Special Topics	0.0- 6.0	71935	IND	6E	CANCELLED				
Prerequisites: Min Eng 4742 or an equivalent course.	3.0- 3.0	73466	LEC	1A	TTh	09:30 - 10:45 am	BCH	00121	Weiss,D
									Intgrate NEPA and Proj Mgmt
6010 Seminar	1.0- 1.0	70771	RSD	2A	M	12:00 - 12:50 pm	MCNT	00216	Awuah-Offei,K
6040 Oral Examination	0.0- 0.0	70777	IND	6A	ARR	ARR	ARR		
Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.									
6050 Continuous Registration	1.0- 1.0	70778	IND	6A	ARR	ARR	ARR		Lusk,B
6099 Research	0.0-15.0	70772	IND	6A	ARR	ARR	ARR		Alagha,L
	0.0-15.0	70773	IND	6B	ARR	ARR	ARR		Aouad,N
	0.0-15.0	70774	IND	6C	ARR	ARR	ARR		Awuah-Offei,K
	0.0-15.0	71432	IND	6D	ARR	ARR	ARR		Frimpong,S
	0.0-15.0	70775	IND	6E	ARR	ARR	ARR		Galecki,G
	0.0-15.0	71113	IND	6F	CANCELLED				
	0.0-15.0	70776	IND	6G	ARR	ARR	ARR		Homan,K
6522 Mining Property Feasibility Studies And Evaluation Procedure	3.0- 3.0		LEC	1A	T	08:00 - 09:15 am	FUL	00107A	Weiss,D
Prerequisite: Min Eng 3512 or Geology 3511 or Min Eng 4742 or Geophys 3251.	3.0- 3.0	72628	LAB	3A	Th	08:00 - 09:15 am	FUL	00107A	Weiss,D
6936 Surface Mine Design	3.0- 3.0	72385	LEC	1A	ARR	ARR	ARR		Frimpong,S
Prerequisite: Min Eng 4933 or equivalent.									
6992 Research Methods	3.0- 3.0	72388	LEC	1A	ARR	ARR	ARR		Lusk,B
Prerequisites: PhD students only. (Co-listed with Exp Eng 6292)									
Music									
1111 Individual Music Instruction I	1.0- 1.0	70779	LAB	3A	ARR	ARR	ARR		Francis,L
Prerequisite: Consent of instructor required.									
	1.0- 1.0	71742	LAB	3C	ARR	ARR	ARR		Cress,D
									Brass only
1121 Individual Music Instruction II	1.0- 2.0	70780	LAB	3A	ARR	ARR	ARR		Francis,L
Consent of instructor required.									Piano
1130 Wind Symphony	2.0- 2.0	70781	LAB	3A	MWF	12:00 - 12:50 pm	CASTL	00137	Samson,D
1132 University Orchestra	2.0- 2.0	70782	LAB	3A	M	07:00 - 09:30 pm	CASTL	00137	Wernke,K
									(Symphony Orchestra)
1134 Instrumental Chamber Ensemble-Strings	1.0- 1.0	70783	LAB	3A	Th	07:00 - 09:00 pm	CASTL	00137	Wernke,K
									(Chamber Orchestra)
1135 Symphonic Band	0.0- 2.0	72847	LAB	3A	TWTh	04:00 - 04:50 pm	CASTL	00137	Cress,D
1136 Jazz Ensemble	1.0- 1.0	70784	LAB	3A	T	06:00 - 08:30 pm	CASTL	00137	Cress,D
Prerequisite: Consent of instructor.									
1140 University Choir	1.0- 1.0	70785	LAB	3A	TTh	02:00 - 03:15 pm	CASTL	00138	Francis,L
1141 Chamber Vocal Ensembles	1.0- 1.0	71201	LAB	3A	TTh	12:30 - 01:45 pm	CASTL	00138	Francis,L
									Audition
1150 Music Understanding And Appreciation	3.0- 3.0	71067	LEC	1A	MWF	02:00 - 02:50 pm	CASTL	00138	Francis,L
2111 Individual Music Instruction III	1.0- 2.0	70786	LAB	3A	ARR	ARR	ARR		Francis,L
Consent of instructor required.									Piano
	1.0- 2.0	72684	LAB	3B	ARR	ARR	ARR		Cress,D
									Brass only
2121 Individual Music Instruction IV	1.0- 2.0	70787	LAB	3A	ARR	ARR	ARR		Francis,L
Consent of instructor required.									Piano
2162 Theory of Music II	3.0- 3.0	72848	LEC	1A	CANCELLED				
Prerequisite: Music 2161.									
3000 Special Problems	0.0- 6.0	70788	IND	6A	ARR	ARR	ARR		Francis,L
3252 History and Analysis of Music II	3.0- 3.0	73358	LEC	1A	TTh	09:30 - 10:45 am	CASTL	00137	Samson,D
									Communication Emphasized

Nuclear Engineering

1105 Nuclear Technology Applications	1.0- 1.0	70789	LEC	1A	M	11:00 - 11:50 am	FUL	00220	Castano,C
2105 Introduction To Nuclear Engineering	2.0- 2.0	71066	LEC	1A	TTh	02:00 - 02:50 pm	FUL	00227	Castano,C
Prerequisite: Math 1215 or Math 1221.									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2406 Reactor Operations I Prerequisites: Math 1214 or Math 1208; preceded or accompanied by Nuc Eng 1105.	1.0- 1.0	70792	LAB	3A	M	02:00 - 02:50 pm	ARR		Graham,J
									Additional meeting time to be arranged.
									See 'Notes'-Additional Meeting
	1.0- 1.0	72569	LAB	3B	T	09:00 - 09:50 am	ARR		Graham,J
	1.0- 1.0	72570	LAB	3C	T	02:00 - 02:50 pm	ARR		Graham,J
3000 Special Problems	0.0- 6.0	70790	IND	6A	ARR	ARR	ARR		Lee,H
3103 Interactions Of Radiation With Matter Prerequisites: Math 2222, Physics 2135.	3.0- 3.0	72867	LEC	1A	MWF	01:00 - 01:50 pm	FUL	00220	Graham,J
3205 Fundamentals Of Nuclear Engineering Prerequisite: Physics 2305 or Nuc Eng 3103; Math 3304.	3.0- 3.0	72024	LEC	1A	TTh	09:30 - 10:45 am	CSF	00G5D	Liu,X
3223 Reactor Heat Transfer Prerequisite: Nuc Eng 3221.	3.0- 3.0	70793	LEC	1A	MWF	01:00 - 01:50 pm	BCH	00121	Schlegel,J
4000 Special Problems	0.0- 6.0	71424	IND	6A	ARR	ARR	ARR		Alajo,A
	0.0- 6.0	70794	IND	6B	ARR	ARR	ARR		Castano,C
	0.0- 6.0	70795	IND	6C	ARR	ARR	ARR		Lee,H
	0.0- 6.0	70796	IND	6D	ARR	ARR	ARR		Liu,X
	0.0- 6.0	71595	IND	6E	ARR	ARR	ARR		Mueller,G
	0.0- 6.0	71752	IND	6F	ARR	ARR	ARR		Schlegel,J
	0.0- 6.0	72135	IND	6G	ARR	ARR	ARR		Usman,S
4010 Seminar Prerequisite: Senior Standing.	0.0- 6.0	70800	RSD	2A	M	12:00 - 12:50 pm	FUL	00227	Usman,S
4099 Undergraduate Research	0.0- 6.0	71101	IND	6A	ARR	ARR	ARR		Alajo,A
	0.0- 6.0	70803	IND	6B	ARR	ARR	ARR		Graham,J
	0.0- 6.0	70804	IND	6C	ARR	ARR	ARR		Lee,H
	0.0- 6.0	71767	IND	6D	ARR	ARR	ARR		Liu,X
	0.0- 6.0	71768	IND	6E	ARR	ARR	ARR		Mueller,G
	0.0- 6.0	71999	IND	6F	ARR	ARR	ARR		Schlegel,J
	0.0- 6.0	72075	IND	6G	ARR	ARR	ARR		Smith,J
	0.0- 6.0	72092	IND	6H	ARR	ARR	ARR		Usman,S
4203 Reactor Physics I Prerequisite: Nuc Eng 3205.	3.0- 3.0	70797	LEC	1A	MWF	10:00 - 10:50 am	FUL	00220	Liu,X
4215 Space Nuclear Power And Propulsion Prerequisites: Nuc Eng 4203 and Nuc Eng 4229.	3.0- 3.0	73482	LEC	1A	MWF	09:00 - 09:50 am	FUL	00209	Mueller,G
4229 Nuclear Power Plant Systems Prerequisites: Nuc Eng 3205 and accompanied or preceded by Nuc Eng 3223.	3.0- 3.0	70801	LEC	1A	MWF	11:00 - 11:50 am	FUL	00209	Mueller,G
4257 Two-phase Flow in Energy Systems - I Prerequisite: Nuc Eng 3221 or Chem Eng 3100 or Mech Eng 3131.	3.0- 3.0	73008	LEC	1A	MWF	03:00 - 03:50 pm	BCH	00314	Schlegel,J
4312 Nuclear Radiation Measurements and Spectroscopy Prerequisite: Nuc Eng 3205.	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	FUL	00227	Lee,H
	3.0- 3.0	71151	LAB	3A	T	02:00 - 04:45 pm	FUL	00214	Lee,H
									Communication Emphasized
	3.0- 3.0	71152	LAB	3B	Th	02:00 - 04:45 pm	FUL	00214	Lee,H
									Communication Emphasized
	3.0- 3.0	71709	LAB	3C	W	02:00 - 04:45 pm	FUL	00214	Lee,H
									Communication Emphasized
4347 Radiological Engineering Prerequisite: Nuc Eng 3205.	3.0- 3.0	71649	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00254	Usman,S
4361 Fusion Fundamentals Prerequisite: Preceded or accompanied by Math 3304.	3.0- 3.0	73019	LEC	1A		CANCELLED			
4438 Reactor Laboratory II Prerequisite: Nuc Eng 4428.	2.0- 2.0		LEC	1A	M	02:00 - 02:50 pm	ARR		Castano,C
	2.0- 2.0	70799	LAB	3A	ARR	ARR	ARR		Castano,C
	2.0- 2.0	72032	LAB	3B	ARR	ARR	ARR		Castano,C
4456 Reactor Operation II Prerequisite: Nuc Eng 2105, 2406.	1.0- 1.0	71488	LAB	3A	ARR	ARR	ARR		Liu,X
4497 Nuclear System Design II Prerequisite: Nuc Eng 4496.	3.0- 3.0	70802	LEC	1A	T	02:00 - 04:45 pm	FUL	00220	Alajo,A
5203 Reactor Physics I Prerequisite: Nuc Eng 3205.	3.0- 3.0	72136	LEC	1A	MWF	10:00 - 10:50 am	FUL	00220	Liu,X
5257 Introduction to Nuclear Thermal Hydraulics Prerequisite: Graduate standing.	3.0- 3.0	73009	LEC	1A	MWF	03:00 - 03:50 pm	BCH	00314	Schlegel,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5312 Nuclear Radiation Measurements and Spectroscopy Prerequisite: Nuc Eng 3205.	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	FUL	00227	Lee,H
	3.0- 3.0	72138	LAB	3A	T	02:00 - 04:45 pm	FUL	00214	Lee,H
	3.0- 3.0	72139	LAB	3B	Th	02:00 - 04:45 pm	FUL	00214	Lee,H
	3.0- 3.0	72140	LAB	3C	W	02:00 - 04:45 pm	FUL	00214	Lee,H
5347 Radiological Engineering Prerequisite: Nuc Eng 3205.	3.0- 3.0	72403	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00254	Usman,S
5438 Reactor Laboratory II Prerequisite: Nuc Eng 4428.	2.0- 2.0		LEC	1A	M	02:00 - 02:50 pm	ARR		Castano,C
	2.0- 2.0	72682	LAB	3A	ARR	ARR	ARR		Castano,C
6000 Special Problems	0.0- 6.0	70805	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	70807	IND	6B	ARR	ARR	ARR		Lee,H
	0.0- 6.0	70806	IND	6C	ARR	ARR	ARR		Mueller,G
	0.0- 6.0	71836	IND	6D	ARR	ARR	ARR		Usman,S
	0.0- 6.0	70808	RSD	2A	M	12:00 - 12:50 pm	FUL	00227	Usman,S
6010 Seminar	0.0- 6.0	70808	RSD	2A	M	12:00 - 12:50 pm	FUL	00227	Usman,S
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70812	IND	6A	ARR	ARR	ARR		Lee,H
6050 Continuous Registration Doctoral Students Only. Graduate Office permission required.	1.0- 1.0	70813	IND	6A	ARR	ARR	ARR		Lee,H
6085 Internship DE Students Only.	0.0-15.0	70811	IND	6A	ARR	ARR	ARR		Lee,H
6099 Research	0.0-15.0	71425	IND	6A	ARR	ARR	ARR		Alajo,A
	0.0-15.0	71102	IND	6B	ARR	ARR	ARR		Al Dahhan,M
	0.0-15.0	70809	IND	6C	ARR	ARR	ARR		Castano,C
	0.0-15.0	70810	IND	6D	ARR	ARR	ARR		Graham,J
	0.0-15.0	71670	IND	6E	ARR	ARR	ARR		Lee,H
	0.0-15.0	71694	IND	6F	ARR	ARR	ARR		Liu,X
	0.0-15.0	71753	IND	6G	ARR	ARR	ARR		Mueller,G
	0.0-15.0	72093	IND	6H	ARR	ARR	ARR		Schlegel,J
	0.0-15.0	72647	IND	6J	ARR	ARR	ARR		Usman,S
6203 Advanced Reactor Physics Prerequisite: Math 5325.	3.0- 3.0	71916	LEC	1A	TTh	12:30 - 01:45 pm	FUL	00220	Alajo,A

Petroleum Engineering

2510 Properties Of Hydrocarbon Fluids Prerequisite: Chem 1310.	3.0- 3.0	72218	LEC	1A	MWF	08:00 - 08:50 am	CS	00207	Hilgedick,S
3000 Special Problems Prerequisite: Consent of instructor.	1.0- 3.0	70815	IND	6A	ARR	ARR	ARR		Bai,B
	1.0- 3.0	70816	IND	6B	ARR	ARR	ARR		Dunn Norman,S
	1.0- 3.0	71441	IND	6C	ARR	ARR	ARR		Eckert,A
	1.0- 3.0	71442	IND	6D	ARR	ARR	ARR		Flori,R
	1.0- 3.0	71443	IND	6E	ARR	ARR	ARR		Hendrix,R
	1.0- 3.0	73248	IND	6F	ARR	ARR	ARR		Imqam,A
3330 Well Logging Prerequisites: Physics 2135 or 2111; Pet Eng 3520.	3.0- 3.0		LEC	1A	TTh	11:00 - 12:15 pm	BCH	00125	Imqam,A
	3.0- 3.0	71150	LAB	3A	M	01:00 - 03:30 pm	MCNT	00114	Imqam,A
	3.0- 3.0	72521	LAB	3B	T	01:00 - 03:30 pm	MCNT	000B14	Imqam,A
	3.0- 3.0	72522	LAB	3C	Th	01:00 - 03:30 pm	MCNT	000B14	Imqam,A
3520 Petroleum Reservoir Engineering Prerequisite: Accompanied or preceded by Pet Eng 2510.	3.0- 3.0	70814	LEC	1A	MWF	09:00 - 09:50 am	SHNK	000G3	Flori,R
4001 Special Topics Prerequisites: Pet Eng 4210.	3.0- 3.0	73550	LEC	1A	TTh	08:00 - 09:15 am	MCNT	00130	Hendrix,R
4097 Petroleum Engineering Design Prerequisites: Pet Eng 3520, Pet Eng 3410, and senior standing.	3.0- 3.0	72571	LEC	1A	W	02:00 - 04:30 pm	MCNT	00114	Flori,R
	3.0- 3.0	72662	LEC	1B	W	05:00 - 07:30 pm	MCNT	00114	Flori,R
4211 Advanced Drilling Technology Prerequisites: Pet Eng 4210.	3.0- 3.0	72738	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00130	Hendrix,R
4410 Well Performance and Production Systems Prerequisite: Preceded or accompanied by Pet Eng 3520.	3.0- 3.0		LEC	1A	TTh	09:30 - 10:20 am	MCNT	00204	Dunn Norman,S
	3.0- 3.0	71310	LAB	3A	T	02:00 - 04:50 pm	MCNT	00204	Dunn Norman,S
4431 Well Completion Design Prerequisite: Pet Eng 3520.	3.0- 3.0	71741	LEC	1A	TTh	12:30 - 01:45 pm	MCNT	00130	Dunn Norman,S
4531 Natural Gas Engineering Prerequisite: Preceded or accompanied by Pet Eng 3520.	3.0- 3.0	71869	LEC	1A	MWF	01:00 - 01:50 pm	MCNT	00211	Wei,M

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4590 Petroleum Economics and Asset Valuation Prerequisites: Pet Eng 3520, Econ 1100 or Econ 1200.	3.0- 3.0	71868	LEC	1A	MWF	11:00 - 11:50 am	TMH	00251	Hilgedick,S
4611 Secondary Recovery Of Petroleum Prerequisites: Pet Eng 3520, Pet Eng 3529.	3.0- 3.0	72475	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00130	Bai,B
4631 Applied Reservoir Simulation Prerequisite: Pet Eng 3520.	3.0- 3.0	72305	LEC	1A	MWF	10:00 - 10:50 am	BCH	00313	Wei,M
4710 Finite Element Analysis with Applications in Petroleum Engineering Prerequisites: Pet Eng 3520, Geology 3310, and Math 3304.	3.0- 3.0 3.0- 3.0	 71445	LEC LAB	1A 3A	TTh Th	08:00 - 09:15 am 02:00 - 04:50 pm	TMH TMH	00251 00251	Eckert,A Eckert,A
4720 Mechanical Earth Modeling Prerequisites: Pet Eng 3310 and Geology 3310.	3.0- 3.0	72219	LEC	1A	MWF	10:00 - 10:50 am	BCH	00316	Hilgedick,S
5000 Special Problems	0.0- 6.0	71281	IND	6A	ARR	ARR	ARR		Bai,B
	0.0- 6.0	71283	IND	6B	ARR	ARR	ARR		Dunn Norman,S
	0.0- 6.0	71296	IND	6C	ARR	ARR	ARR		Eckert,A
	0.0- 6.0	71446	IND	6D	ARR	ARR	ARR		Flori,R
	0.0- 6.0	71447	IND	6E	ARR	ARR	ARR		Hilgedick,S
	0.0- 6.0	72674	IND	6F	ARR	ARR	ARR		Imqam,A
5010 Seminar	0.0- 6.0	71035	RSD	2A	M	04:00 - 04:50 pm	MCNT	00204	Flori,R
5040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70820	IND	6A	ARR	ARR	ARR		
5085 Internship DE Students Only.	0.0-15.0	70819	IND	6A	ARR	ARR	ARR		Dunn Norman,S
5099 Research Prerequisite: Consent of instructor.	0.0-12.0	70817	IND	6A	ARR	ARR	ARR		Bai,B
	0.0-12.0	70818	IND	6B	ARR	ARR	ARR		Dunn Norman,S
	0.0-12.0	71311	IND	6C	ARR	ARR	ARR		Eckert,A
	0.0-12.0	71312	IND	6D	ARR	ARR	ARR		Flori,R
	0.0-12.0	71448	IND	6E	ARR	ARR	ARR		Imqam,A
	0.0-12.0	71875	IND	6F	ARR	ARR	ARR		Oboh Ikuenobe,F
	0.0-12.0	72641	IND	6G	ARR	ARR	ARR		Wei,M
6001 Special Topics Prerequisites: PET ENG 4210.	3.0- 3.0	73601	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00130	Hendrix,R
									Adv Direction Drilling and MWD
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70821	IND	6A	ARR	ARR	ARR		Dunn Norman,S
6541 Advanced Reservoir Engineering I Prerequisites: Pet Eng 5631 and Pet Eng 4520.	3.0- 3.0	72016	LEC	1A	TTh	02:00 - 03:15 pm	MCNT	00130	Bai,B
6711 Geodynamics Prerequisites: Math 2222 and Geology 3310. (Co-listed with Geology 6211)	3.0- 3.0	73449	LEC	1A	M	02:00 - 04:50 pm	MCNT	00130	Eckert,A

Philosophy

1105 Introduction To Philosophy Prerequisite: Entrance requirements.	3.0- 3.0	72142	LEC	1A	MWF	10:00 - 10:50 am	IDE	00202	Gamez,P
	3.0- 3.0	71498	LEC	1B	MWF	02:00 - 02:50 pm	NOR	00208	Gamez,P
	3.0- 3.0	72851	LEC	1D	TTh	12:30 - 01:45 pm	H-SS	00204	Reed,R
	3.0- 3.0	71763	LEC	1E	TTh	09:30 - 10:45 am	H-SS	00204	Reed,R
	3.0- 3.0	73473	LEC	1F	TTh	02:00 - 03:15 pm	IDE	00105	Dittmer,J
1115 Introduction To Logic Prerequisite: Entrance requirements.	3.0- 3.0	70822	LEC	1A	ARR	ARR	ARR		Finke,D
	3.0- 3.0	72022	LEC	1B	TTh	02:00 - 03:15 pm	H-SS	00101	Finke,D
1130 Introduction to Ethics	3.0- 3.0	72432	LEC	1A	MWF	01:00 - 01:50 pm	NOR	00208	Gamez,P
3223 Bioethics Prerequisite: Sophomore standing or above.	3.0- 3.0	71307	LEC	1A	MWF	11:00 - 11:50 am	IDE	00202	Taylor,A
3235 Business Ethics Prerequisite: Sophomore standing or above.	3.0- 3.0	71376	LEC	1A	MWF	01:00 - 01:50 pm	IDE	00105	Taylor,A
	3.0- 3.0	72272	LEC	1B	MWF	02:00 - 02:50 pm	IDE	00206	Taylor,A
	3.0- 3.0	72849	LEC	1C	TTh	12:30 - 01:45 pm	IDE	00105	Dittmer,J
	3.0- 3.0	72433	LEC	1D	TTh	03:30 - 04:45 pm	IDE	00105	Dittmer,J

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3254 Symbolic Logic in Argumentation Prerequisites: Comp Eng 2210, or Comp Sci 1200, or any 1000-level or higher Philosophy course. Philosophy 1115 is recommended.	3.0- 3.0	72143	LEC	1A	TTh	12:30 - 01:45 pm	H-SS	00101	Finke,D
4000 Special Problems	0.0- 6.0	71339	IND	6A	ARR	ARR	ARR		Dittmer,J
	0.0- 6.0	73573	IND	6B	ARR	ARR	ARR		Finke,D
4345 Philosophy Of Science Prerequisite: Any philosophy course.	3.0- 3.0	73361	LEC	1A	TTh	11:00 - 12:15 pm	FUL	00220	Finke,D
4350 Environmental Ethics Prerequisite: Any philosophy course.	3.0- 3.0	73362	LEC	1A	TTh	11:00 - 12:15 pm	IDE	000G4A	Gamez,P
									Communication Emphasized

Physical Education

1100 Weight Training	1.0- 1.0	70824	LAB	3A	MW	09:00 - 09:50 am	ARR		White,N
	1.0- 1.0	70825	LAB	3B	TTh	09:30 - 10:20 am	ARR		Dowty,S
1108 Beginning Racquetball	1.0- 1.0	70823	LAB	3A	TTh	09:30 - 10:20 am	M-PUR	00G26	McCauley,J
	1.0- 1.0	71998	LAB	3B	TTh	11:00 - 11:50 am	ARR		McFarland,M
	1.0- 1.0	73456	LAB	3C	MW	09:30 - 10:20 am	ARR		Lind,J

Physics

1135 Engineering Physics I Prerequisite: Math 1208 or 1214. Students must enroll in a LEC, RSD, and a LAB. Students are scheduled for group exams from 5:00 to 6:00pm on Wednesdays: Feb. 14, Mar. 21, and Apr. 18.	0.0- 0.0	70826	LEC	1AA	TTh	09:00 - 09:50 am	PHYS	00104	Vojta,A
									See 'Notes' for Evening Exams
	0.0- 0.0	70827	LEC	1BB	TTh	10:00 - 10:50 am	PHYS	00104	Vojta,A
									See 'Notes' for Evening Exams
	0.0- 0.0	70828	LEC	1CC	ARR	ARR	ARR		Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	70829	RSD	2A	WF	08:00 - 08:50 am	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	70830	RSD	2B	WF	08:00 - 08:50 am	PHYS	00129	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	70831	RSD	2C	WF	09:00 - 09:50 am	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	70832	RSD	2D	WF	09:00 - 09:50 am	PHYS	00129	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	71314	RSD	2E	WF	09:00 - 09:50 am	BCH	00216	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	70833	RSD	2F	WF	10:00 - 10:50 am	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	70834	RSD	2G	WF	10:00 - 10:50 am	PHYS	00129	Yamilov,A
									See 'Notes' for Evening Exams
	4.0- 4.0	71315	RSD	2H	WF	10:00 - 10:50 am	BCH	00216	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	70835	RSD	2J	WF	11:00 - 11:50 am	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	70836	RSD	2K	WF	11:00 - 11:50 am	PHYS	00129	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	71316	RSD	2L	WF	11:00 - 11:50 am	EECH	00104	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	70837	RSD	2M	WF	12:00 - 12:50 pm	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	71258	RSD	2N	WF	12:00 - 12:50 pm	PHYS	00129	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	72232	RSD	2P	WF	12:00 - 12:50 pm	EECH	00104	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	72233	RSD	2Q	WF	01:00 - 01:50 pm	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	72234	RSD	2R	WF	01:00 - 01:50 pm	PHYS	00129	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	72523	RSD	2T	WF	01:00 - 01:50 pm	PHYS	00127	Vojta,A
									See 'Notes' for Evening Exams
	0.0- 0.0	70838	LAB	3L01	M	01:00 - 02:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70839	LAB	3L02	M	01:00 - 02:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70840	LAB	3L03	M	03:00 - 04:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams

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	0.0- 0.0	70841	LAB	3L04	M	03:00 - 04:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70842	LAB	3L05	M	06:00 - 07:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70843	LAB	3L06	M	06:00 - 07:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70844	LAB	3L07	T	11:00 - 12:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70845	LAB	3L08	T	11:00 - 12:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70846	LAB	3L09	T	01:00 - 02:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70847	LAB	3L10	T	01:00 - 02:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70848	LAB	3L11	T	03:00 - 04:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70849	LAB	3L12	T	03:00 - 04:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70850	LAB	3L13	T	06:00 - 07:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70851	LAB	3L14	T	06:00 - 07:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70852	LAB	3L15	W	01:00 - 02:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70853	LAB	3L16	W	01:00 - 02:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	70854	LAB	3L17	W	03:00 - 04:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	71259	LAB	3L18	W	03:00 - 04:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	71260	LAB	3L19	Th	11:00 - 12:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	71261	LAB	3L20	Th	11:00 - 12:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	71262	LAB	3L21	Th	01:00 - 02:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	71663	LAB	3L22	Th	01:00 - 02:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	72235	LAB	3L23	Th	03:00 - 04:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	72236	LAB	3L24	Th	03:00 - 04:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	72237	LAB	3L25	Th	06:00 - 07:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	72238	LAB	3L26	Th	06:00 - 07:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	72239	LAB	3L27	F	01:00 - 02:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	72240	LAB	3L28	F	01:00 - 02:50 pm	PHYS	00215	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	72524	LAB	3L29	F	01:00 - 02:50 pm	PHYS	00213	Waddill,G
									See 'Notes' for Evening Exams
1505									Introductory Astronomy
1509									Astronomy Laboratory
									Prerequisite: Preceded or accompanied by Physics 1505 or 1515.
	3.0- 3.0	72525	LEC	1A	MWF	03:00 - 03:50 pm	PHYS	00104	Story,J
	1.0- 1.0	72526	LAB	3A	M	06:00 - 07:50 pm	PHYS	00213	Story,J
	1.0- 1.0	72527	LAB	3B	W	06:00 - 07:50 pm	PHYS	00213	Story,J
2119									General Physics Laboratory
									Prerequisite: Preceded or accompanied by either Physics 2111 or Physics 2145.
	1.0- 1.0	70876	LAB	3A	T	03:00 - 04:50 pm	PHYS	00214	Waddill,G
	1.0- 1.0	71803	LAB	3B	Th	06:00 - 07:50 pm	PHYS	00214	Waddill,G
2129									Intermediate Physics Laboratory
	3.0- 3.0		LEC	1A	T	01:00 - 01:50 pm	PHYS	00218	Hor,Y
	3.0- 3.0	70879	LAB	3A	Th	01:00 - 03:50 pm	PHYS	00218	
			LAB	3A	T	02:00 - 04:50 pm	PHYS	00218	Hor,Y

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2135 Engineering Physics II Prerequisites: Physics 1135 or Physics 1111, Math 1221 or Math 1215. Students must enroll in a LEC, RSD, and a LAB. Students are scheduled for group exams from 5:00 to 6:00pm on Tuesdays: Feb. 13, Mar. 20, and Apr. 17.	0.0- 0.0	71221	LEC	1AA	MW	09:00 - 09:50 am	PHYS	00104	Musser,J
			See 'Notes' for Evening Exams						
	0.0- 0.0	70855	LEC	1BB	MW	10:00 - 10:50 am	PHYS	00104	Musser,J
			See 'Notes' for Evening Exams						
	0.0- 0.0	70856	LEC	1CC	ARR	ARR	ARR		Musser,J
			See 'Notes' for Evening Exams						
	4.0- 4.0	70857	RSD	2A	TTh	08:00 - 08:50 am	PHYS	00129	Musser,J
			See 'Notes' for Evening Exams						
	4.0- 4.0	70858	RSD	2B	TTh	09:00 - 09:50 am	IDE	00202	Musser,J
			See 'Notes' for Evening Exams						
	4.0- 4.0	70859	RSD	2C	TTh	09:00 - 09:50 am	PHYS	00129	Musser,J
			See 'Notes' for Evening Exams						
	4.0- 4.0	70860	RSD	2D	TTh	09:00 - 09:50 am	PHYS	00130	Musser,J
			See 'Notes' for Evening Exams						
	4.0- 4.0	70861	RSD	2E	TTh	10:00 - 10:50 am	PHYS	00129	Musser,J
			See 'Notes' for Evening Exams						
	4.0- 4.0	71044	RSD	2F	TTh	10:00 - 10:50 am	PHYS	00130	Musser,J
			See 'Notes' for Evening Exams						
	4.0- 4.0	70862	RSD	2G	TTh	11:00 - 11:50 am	PHYS	00129	Musser,J
			See 'Notes' for Evening Exams						
	4.0- 4.0	71165	RSD	2H	TTh	11:00 - 11:50 am	PHYS	00130	Musser,J
			See 'Notes' for Evening Exams						
	4.0- 4.0	71317	RSD	2J	TTh	12:00 - 12:50 pm	PHYS	00129	Musser,J
			See 'Notes' for Evening Exams						
	4.0- 4.0	71765	RSD	2K	TTh	12:00 - 12:50 pm	PHYS	00130	Musser,J
			See 'Notes' for Evening Exams						
	4.0- 4.0	72241	RSD	2L	TTh	01:00 - 01:50 pm	PHYS	00129	Musser,J
			See 'Notes' for Evening Exams						
	4.0- 4.0	72242	RSD	2M	TTh	01:00 - 01:50 pm	PHYS	00130	Musser,J
			See 'Notes' for Evening Exams						
	4.0- 4.0	72528	RSD	2N	TTh	10:00 - 10:50 am	IDE	00202	Musser,J
			See 'Notes' for Evening Exams						
0.0- 0.0	70863	LAB	3L01	M	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	70864	LAB	3L02	M	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	70865	LAB	3L03	M	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	70866	LAB	3L04	M	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	70867	LAB	3L05	M	06:00 - 07:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	70868	LAB	3L06	M	06:00 - 07:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	70869	LAB	3L07	M	11:00 - 12:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	70870	LAB	3L08	M	11:00 - 12:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	70871	LAB	3L09	T	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	70872	LAB	3L10	T	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	70873	LAB	3L11	W	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	70874	LAB	3L12	W	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	70875	LAB	3L13	W	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	71166	LAB	3L15	W	06:00 - 07:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	71222	LAB	3L17	W	11:00 - 12:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	71546	LAB	3L14	W	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	71547	LAB	3L16	W	06:00 - 07:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 0.0	71766	LAB	3L18	W	11:00 - 12:50 pm	PHYS	00214	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72243	LAB	3L19	Th	01:00 - 02:50 pm	PHYS	00214	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72244	LAB	3L20	Th	01:00 - 02:50 pm	PHYS	00214	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72245	LAB	3L21	Th	03:00 - 04:50 pm	PHYS	00214	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72529	LAB	3L22	Th	03:00 - 04:50 pm	PHYS	00214	Waddill,G
			See 'Notes' for Evening Exams						
2145	3.0- 3.0	71220	LEC	1A	MWF	08:00 - 08:50 am	PHYS	00104	Vojta,A
	Prerequisites: Math 1160, Physics 1145.								
2305	3.0- 3.0	70877	LEC	1A	MWF	02:00 - 02:50 pm	PHYS	00104	Story,J
	Prerequisites: Math 2222 and Physics 2135 or 2111.								
2311	3.0- 3.0	73520	LEC	1A	MWF	09:00 - 09:50 am	PHYS	00127	Yamilov,A
	Prerequisites: Physics 2135 or 2111, preceded or accompanied by Math 3304 or 3329.								
2401	3.0- 3.0	71147	LEC	1A	MWF	03:00 - 03:50 pm	PHYS	00127	Peacher,J
	Prerequisites: Math 3304 co-requisite; Physics 2135 or 2111.								
3000	0.0- 6.0	70881	IND	6A	ARR	ARR	ARR		Hale,B
	0.0- 6.0	70882	IND	6B	ARR	ARR	ARR		Medvedeva,I
	0.0- 6.0	70883	IND	6C	ARR	ARR	ARR		Peacher,J
	0.0- 6.0	71355	IND	6D	ARR	ARR	ARR		Vojta,S
3119	3.0- 3.0	71045	LAB	3A	TTh	12:30 - 03:15 pm	PHYS	00219	Fischer,D
	Prerequisite: Physics 2129								
3129	3.0- 3.0	70884	LAB	3A	TTh	12:30 - 03:15 pm	PHYS	00219	Fischer,D
	Prerequisite: Physics 2129.								
3211	3.0- 3.0	70880	LEC	1A	MWF	10:00 - 10:50 am	PHYS	00127	Peacher,J
	Prerequisite: Physics 2401.								
4099	0.0- 6.0	70886	IND	6A	ARR	ARR	ARR		Chernatynskiy,A
	0.0- 6.0	70887	IND	6B	ARR	ARR	ARR		Fischer,D
	0.0- 6.0	70888	IND	6C	ARR	ARR	ARR		Hale,B
	0.0- 6.0	70889	IND	6D	ARR	ARR	ARR		Hor,Y
	0.0- 6.0	70890	IND	6E	ARR	ARR	ARR		Jentschura,U
	0.0- 6.0	70891	IND	6F	ARR	ARR	ARR		Kurter,C
	0.0- 6.0	70892	IND	6G	ARR	ARR	ARR		Madison,D
	0.0- 6.0	70893	IND	6H	ARR	ARR	ARR		Medvedeva,I
	0.0- 6.0	70894	IND	6J	ARR	ARR	ARR		Parris,P
	0.0- 6.0	71176	IND	6K	ARR	ARR	ARR		Peacher,J
	0.0- 6.0	71177	IND	6L	ARR	ARR	ARR		Schulz,M
	0.0- 6.0	71217	IND	6M	ARR	ARR	ARR		Story,J
	0.0- 6.0	71218	IND	6N	ARR	ARR	ARR		Vojta,S
	0.0- 6.0	71219	IND	6P	ARR	ARR	ARR		Waddill,G
	0.0- 6.0	71673	IND	6Q	ARR	ARR	ARR		Wilemski,G
	0.0- 6.0	72530	IND	6R	ARR	ARR	ARR		Yamilov,A
4311	3.0- 3.0	71997	LEC	1A	TTh	11:00 - 12:15 pm	PHYS	00127	Wilemski,G
	Prerequisite: Physics 2305 or 2311.								
4323	3.0- 3.0	73521	LEC	1A	TTh	09:30 - 10:45 am	IDE	000G4A	Kurter,C
	Prerequisites: Math 3304 and Physics 2305 or 2311.								
4513	3.0- 3.0	70885	LEC	1A	MWF	11:00 - 11:50 am	PHYS	00127	Story,J
	Prerequisite: Physics 2305 or 2311.								
5211	3.0- 3.0	70897	LEC	1A	TTh	11:00 - 12:15 pm	ARR		Jentschura,U
	Prerequisites: Physics 4211.								
5301	3.0- 3.0	70898	LEC	1A	ARR	ARR	ARR		Parris,P
	Prerequisite: Physics 4301 or equivalent.								
5333	3.0- 3.0	73522	LEC	1A	TTh	09:30 - 10:45 am	PHYS	00127	Hale,B
	Prerequisite: Physics 3311.								
5603	3.0- 3.0	71837	LEC	1A	ARR	ARR	ARR		Waddill,G
	Prerequisite: Graduate standing.								
6000	0.0- 6.0	70895	IND	6A	ARR	ARR	ARR		Peacher,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	71119	IND	6B	ARR	ARR	ARR		Pringle,O
	0.0- 6.0	72041	IND	6C	ARR	ARR	ARR		Hor,Y
6002 Coop Registration	0.0- 1.0	70916	IND	6A	ARR	ARR	ARR		Peacher,J
6010 Seminar	0.0- 6.0	70896	RSD	2A	Th	03:30 - 05:20 pm	PHYS	00104	Chernatynskiy,A
6040 Oral Examination	0.0- 0.0	70915	IND	6A	ARR	ARR	ARR		Waddill,G
Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate Office permission required.									
6050 Continuous Registration	1.0- 1.0	70917	IND	6A	ARR	ARR	ARR		Waddill,G
Doctoral students only. Graduate Office permission required.									
6099 Research	0.0-15.0	70899	IND	6A	ARR	ARR	ARR		Chernatynskiy,A
Distance Course Rates Apply									
	0.0-15.0	70900	IND	6B	ARR	ARR	ARR		Fischer,D
	0.0-15.0	70901	IND	6C	ARR	ARR	ARR		Hagen,D
	0.0-15.0	70902	IND	6D	ARR	ARR	ARR		Hale,B
	0.0-15.0	70903	IND	6E	ARR	ARR	ARR		Hor,Y
	0.0-15.0	70904	IND	6F	ARR	ARR	ARR		Jentschura,U
	0.0-15.0	70905	IND	6G	ARR	ARR	ARR		Kurter,C
	0.0-15.0	70906	IND	6H	ARR	ARR	ARR		Madison,D
	0.0-15.0	70907	IND	6J	ARR	ARR	ARR		Medvedeva,I
	0.0-15.0	70908	IND	6K	ARR	ARR	ARR		Parris,P
	0.0-15.0	70909	IND	6L	ARR	ARR	ARR		Peacher,J
	0.0-15.0	70910	IND	6M	ARR	ARR	ARR		Schulz,M
	0.0-15.0	70911	IND	6N	ARR	ARR	ARR		Story,J
	0.0-15.0	70912	IND	6P	ARR	ARR	ARR		Vojta,S
	0.0-15.0	70913	IND	6Q	ARR	ARR	ARR		Waddill,G
	0.0-15.0	70914	IND	6R	ARR	ARR	ARR		Wilemski,G
	0.0-15.0	72532	IND	6T	ARR	ARR	ARR		Yamilov,A
6211 Electrodynamics II	3.0- 3.0	73679	LEC	1A	ARR	ARR	ARR		Jentschura,U
Prerequisite: Physics 5211.									

Political Science

1200 American Government	3.0- 3.0	71951	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00101	Meagher,M
	3.0- 3.0	71952	LEC	1B	MWF	02:00 - 02:50 pm	H-SS	00101	Meagher,M
	3.0- 3.0	72665	LEC	1C	TTh	09:30 - 10:45 am	IDE	00105	Isaac,T
	3.0- 3.0	72691	LEC	1D	TTh	11:00 - 12:15 pm	IDE	00105	Isaac,T
2400 Comparative Politics	3.0- 3.0	73226	LEC	1A	TTh	03:30 - 04:45 pm	H-SS	00103	Isaac,T
Prerequisite: Pol Sci 1200 or History 1300.									
Communication Emphasized									
3001 Special Topics	3.0- 3.0	73411	LEC	1A	MWF	10:00 - 10:50 am	BCH	00215	Krolikowski,A
Policy for Sci, Tech, & Innova									
	3.0- 3.0	73412	LEC	1B	MWF	11:00 - 11:50 am	BCH	00215	Krolikowski,A
Policy for Sci, Tech, & Innova									
3300 Principles Of Public Policy	3.0- 3.0	73225	LEC	1A	W	06:00 - 08:45 pm	H-SS	00101	Meagher,M
Prerequisite: Pol Sci 1200.									
4000 Special Problems And Readings	0.0- 6.0	70918	IND	6A	ARR	ARR	ARR		Meagher,M
4001 Special Topics	3.0- 3.0	73312	LEC	1A	MWF	12:00 - 12:50 pm	BCH	00213	Oerther,D
STEAM Diplomacy									
Prerequisite: Junior or Senior Standing. Co-Listed with ENV ENG 5001 and CIV ENG 5001.									
UM Shared Course-Secondary									
4085 Political Science Internship	0.0- 6.0	70919	IND	6A	ARR	ARR	ARR		Meagher,M
Prerequisite: Pol Sci 1200 or Pol Sci 1100.									

Pre-Medicine

3010 Communication Workshop for the Pre-Health Student	1.0- 1.0	71333	RSD	6A	M	02:00 - 02:50 pm	CH	00104	Shannon,K
Prerequisite: Junior Standing.									

Psychology

1101 General Psychology	3.0- 3.0	70920	LEC	1A	MWF	09:00 - 09:50 am	H-SS	000G5	Krueger,M
	3.0- 3.0	72925	LEC	1B	TTh	12:30 - 01:45 pm	EECH	00G31	Baker,D
	3.0- 3.0	72676	LEC	1C	T	06:00 - 08:45 pm	H-SS	000G5	Stratman,T

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2300 Educational Psychology Prerequisite: Psych 1101. (Co-listed with Educ 2102)	3.0- 3.0	72561	LEC	1A	M	04:00 - 06:30 pm	H-SS	00104	Spooner,P
3311 Psychological & Educational Development Of The Adolescent Prerequisite: Psych 1101.	3.0- 3.0 3.0- 3.0	71065 71378	LEC LEC	1A 1B	CANCELLED MWF				
4000 Special Problems And Readings In Psychology	0.0- 6.0	71426	IND	6A	ARR	ARR	ARR		Baker,D
	0.0- 6.0	70923	IND	6B	ARR	ARR	ARR		Burns,D
	0.0- 6.0	71599	IND	6C	ARR	ARR	ARR		Cundiff,J
	0.0- 6.0	70924	IND	6D	ARR	ARR	ARR		Henslee,A
	0.0- 6.0	71844	IND	6E	ARR	ARR	ARR		Belfi,A
	0.0- 6.0	72428	IND	6F	ARR	ARR	ARR		Kueny,C
	0.0- 6.0	72679	IND	6G	ARR	ARR	ARR		Murray,S
	0.0- 6.0	72830	IND	6H	ARR	ARR	ARR		Shank,D
	0.0- 6.0	72831	IND	6J	ARR	ARR	ARR		
	0.0- 6.0	72832	IND	6K	ARR	ARR	ARR		Stone,N
	0.0- 6.0	72926	IND	6L	ARR	ARR	ARR		Weidner,N
4099 Undergraduate Research Prerequisite: Instructor consent.	0.0- 6.0	71427	IND	6A	ARR	ARR	ARR		Baker,D
	0.0- 6.0	70925	IND	6B	ARR	ARR	ARR		Burns,D
	0.0- 6.0	71601	IND	6C	ARR	ARR	ARR		Cundiff,J
	0.0- 6.0	70926	IND	6D	ARR	ARR	ARR		Henslee,A
	0.0- 6.0	71845	IND	6E	ARR	ARR	ARR		
	0.0- 6.0	72429	IND	6F	ARR	ARR	ARR		Kueny,C
	0.0- 6.0	72927	IND	6G	ARR	ARR	ARR		Shank,D
	0.0- 6.0	72928	IND	6H	ARR	ARR	ARR		
	0.0- 6.0	72929	IND	6J	ARR	ARR	ARR		Stone,N
	0.0- 6.0	72930	IND	6K	ARR	ARR	ARR		Weidner,N
4400 Cognitive Psychology Prerequisite: Psych 1101.	3.0- 3.0	73329	LEC	1A	TTh	12:30 - 01:45 pm	CS	00203	Belfi,A
4410 Neuroscience Prerequisite: Psych 1101.	3.0- 3.0	73331	LEC	1A	TTh	09:30 - 10:45 am	H-SS	000G7	Belfi,A
4500 Personality Theory Prerequisite: Psych 1101.	3.0- 3.0	73332	LEC	1A	TTh	03:30 - 04:45 pm	H-SS	000G7	Kueny,C
4510 Clinical Psychology Prerequisites: Psych 1101 and Psych 4501.	3.0- 3.0	71507	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	000G7	Henslee,A
4590 Health Psychology Prerequisite: Psych 1101.	3.0- 3.0	72829	LEC	1A	TTh	12:30 - 01:45 pm	H-SS	000G7	Henslee,A
4600 Social Psychology Prerequisite: Psych 1101.	3.0- 3.0	71549	LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00102	Cundiff,J
4602 Organizational Psychology Prerequisite: Psych 1101.	3.0- 3.0	71948	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00201	Weidner,N
4610 Psychology of Leadership in Organizations Prerequisite: Psych 1101.	3.0- 3.0	71020	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	000G7	Weidner,N
4710 Human Factors Prerequisite: Psych 1101. (Co-listed with Eng Mgt 4330)	3.0- 3.0	72117	LEC	1A	TTh	09:30 - 10:45 am	EECH	00101	Murray,S
4990 Internship Prerequisite: Junior or Senior Psychology major; consent of instructor; must have completed 9 hours in major.	0.0- 6.0 0.0- 6.0	72519 72833	IND IND	6A 6B	ARR ARR	ARR ARR	ARR ARR		Henslee,A Murray,S
4992 Cross-Cultural Psychology Prerequisite: Psych 1101.	3.0- 3.0	72828	LEC	1A	MWF	11:00 - 11:50 am	BCH	00121	Krueger,M
5000 Special Problems	0.0- 6.0	72660	IND	6A	ARR	ARR	ARR		Weidner,N
	0.0- 6.0	73062	IND	6B	ARR	ARR	ARR		Kueny,C
	0.0- 6.0	73121	IND	6C	ARR	ARR	ARR		Shank,D
	0.0- 6.0	73570	IND	6D	CANCELLED				
	0.0- 6.0	73662	IND	6E	ARR	ARR	ARR		Baker,D
5001 Special Topics Prerequisite: Graduate Standing.	3.0- 3.0	73336	LEC	1A	CANCELLED				
5012 Ethics and Professional Responsibilities Prerequisite: Graduate standing.	1.0- 1.0 1.0- 1.0	73407 73410	LEC LEC	1A 1DIS	Th Th	05:00 - 05:50 pm 05:00 - 05:50 pm	H-SS ARR	00105	Kueny,C Kueny,C
5201 Psychometrics Prerequisite: Psych 5202.	3.0- 3.0	71949	LEC	1A	M	07:00 - 09:30 pm	H-SS	00105	Burns,D

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5600 Advanced Social Psychology Prerequisites: Psych 4600.	3.0- 3.0	73406	LEC	1A	T	04:00 - 06:30 pm	H-SS	00105	Cundiff,J
5601 Small Group Dynamics Prerequisite: Psych 4601 or graduate standing.	3.0- 3.0	72834	LEC	1A	Th	07:00 - 09:30 pm	H-SS	00105	Shank,D
5700 Job Analysis and Performance Management Prerequisites: Psych 4700 or graduate standing.	3.0- 3.0	73405	LEC	1A	T	04:00 - 06:30 pm	EECH	00239	Stone,N
6099 Research Prerequisites: Consent of instructor required.	0.0- 6.0	73018	IND	6A	ARR	ARR	ARR		Baker,D
	0.0- 6.0	73408	IND	6B	ARR	ARR	ARR		Kueny,C
	0.0- 6.0	73409	IND	6C	ARR	ARR	ARR		Weidner,N
6610 Leadership, Motivation, and Culture Prerequisite: Psych 4610 or graduate standing.	3.0- 3.0	73011	LEC	1A	M	04:00 - 06:30 pm	H-SS	00105	Weidner,N

Russian

1102 Elementary Russian II Prerequisite: Russian 1101.	4.0- 4.0	70927	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00106	Ivliyeva,I
			LEC	1A	ARR	ARR	ARR		
4320 Russian Phonetics and Intonation Prerequisite: Russian 1102.	3.0- 3.0	71612	LEC	1A	TTh	08:00 - 08:50 am	H-SS	00202	Ivliyeva,I
			LEC	1A	ARR	ARR	ARR		
4360 Russian Civilization Prerequisite: Any 1000 or higher level history course.	3.0- 3.0	70928	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00201	Ivliyeva,I

Spanish

1101 Elementary Spanish I Prerequisites: Entrance requirements.	4.0- 4.0	72434	LEC	1A	TTh	09:30 - 10:45 am	H-SS	00201	Porcel,J
			LEC	1A	ARR	ARR	ARR		
	4.0- 4.0	73474	LEC	1B	CANCELLED				
1102 Elementary Spanish II Prerequisite: Spanish 1101.	4.0- 4.0	72557	LEC	1A	MW	01:00 - 02:50 pm	CS	00216	Irwin,A
1180 Readings And Composition Prerequisite: Spanish 1102.	4.0- 4.0	73475	LEC	1A	MW	04:00 - 05:50 pm	H-SS	00203	Irwin,A
2000 Special Problems	0.0- 6.0	73017	IND	6A	CANCELLED				
3001 Special Topics Prerequisite: Any Spanish 2000-level course or above.	3.0- 3.0	73476	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	000G8	Porcel,J
4000 Special Problems	0.0- 6.0	73029	IND	6A	CANCELLED				
4311 Advanced Spanish Conversation Prerequisites: Any Spanish course at the 2000 or 3000 level.	3.0- 3.0	73543	LEC	1A	TTh	12:30 - 01:45 pm	CS	00205	Porcel,J

Speech & Media Studies

1185 Principles Of Speech Prerequisite: Entrance requirements.	3.0- 3.0	71229	LEC	1A	MWF	08:00 - 08:50 am	H-SS	00101	Devault,T
			Communication Intensive						
	3.0- 3.0	71080	LEC	1B	MWF	09:00 - 09:50 am	BCH	00316	Robertson,T
			Communication Intensive						
	3.0- 3.0	70932	LEC	1C	MWF	10:00 - 10:50 am	H-SS	000G9	Lillie,C
			Communication Intensive						
	3.0- 3.0	70933	LEC	1D	MWF	11:00 - 11:50 am	H-SS	000G9	Lillie,C
			Communication Intensive						
	3.0- 3.0	70929	LEC	1E	MWF	12:00 - 12:50 pm	MCNT	00245	Robertson,T
			Communication Intensive						
	3.0- 3.0	72645	LEC	1F	MWF	01:00 - 01:50 pm	H-SS	000G9	Lillie,C
			Communication Intensive						
	3.0- 3.0	71267	LEC	1G	MWF	02:00 - 02:50 pm	H-SS	000G9	Lillie,C
			Communication Intensive						
	3.0- 3.0	70930	LEC	1H	MWF	02:00 - 02:50 pm	H-SS	000G8	Devault,T
			Communication Intensive						
	3.0- 3.0	71358	LEC	1J	MWF	03:00 - 03:50 pm	H-SS	00101	Devault,T
			Communication Intensive						
	3.0- 3.0	70931	LEC	1K	MWF	04:00 - 04:50 pm	H-SS	00204	Robertson,T
			Communication Intensive						
	3.0- 3.0	73053	LEC	1L	TTh	09:30 - 10:45 am	H-SS	00104	James,K
			Communication Intensive						
	3.0- 3.0	73078	LEC	1M	TTh	11:00 - 12:15 pm	H-SS	000G9	James,K
			Communication Intensive						

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	3.0- 3.0	73085	LEC	1N	TTh	02:00 - 03:15 pm	H-SS	000G9	James,K
			Communication Intensive						
	3.0- 3.0	73477	LEC	1P	TTh	03:30 - 04:45 pm	H-SS	000G9	James,K
			Communication Intensive						
	3.0- 3.0	73478	LEC	1Q	TTh	06:00 - 07:15 pm	H-SS	000G9	Haynes,W
			Communication Intensive						
	3.0- 3.0	73579	LEC	1R	MWF	12:00 - 12:50 pm	H-SS	000G9	Devault,T
			Communication Intensive						
2000	0.0- 6.0	71282	IND	6A	ARR	ARR	ARR		Haynes,W
2181	3.0- 3.0	70934	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00203	Devault,T
			Communication Emphasized						
3000	0.0- 6.0	70935	IND	6A	ARR	ARR	ARR		Haynes,W
3221	3.0- 3.0	71463	LEC	1A	W	06:00 - 09:00 pm	CSF	00114	Rupert,B
			Prerequisite: Sp&M S 1185 or 2181						
	3.0- 3.0	72144	LEC	1B	Th	06:00 - 09:00 pm	CSF	00114	Rupert,B
	3.0- 3.0	73479	LEC	1C	T	04:00 - 07:00 pm	CSF	00114	Phelan,R
			(required for Speech minor credit); Art 1180 or Art 1185 (required for Art minor credit). (Co-listed with Art 3221)						
3235	3.0- 3.0	71228	LEC	1A	MWF	11:00 - 11:50 am	H-SS	00104	Robertson,T
			Prerequisite: Sp&M S 2181.						
			Communication Emphasized						
3245	3.0- 3.0	73026	LEC	1A	TTh	11:00 - 12:15 pm	CASTL	00143	Stanley,J
			(Co-listed with Theatre 3245)						
			Field Trip Required						
3250	3.0- 3.0	73363	LEC	1A	TTh	02:00 - 03:15 pm	H-SS	00103	Haynes,W
			Prerequisite: Sp&M S 2181.						
4000	0.0- 6.0	71484	IND	6A	ARR	ARR	ARR		Haynes,W
	0.0- 6.0	73480	IND	6B	ARR	ARR	ARR		Robertson,T

Statistics

1115	3.0- 3.0	70936	LEC	1A	MWF	09:00 - 09:50 am	CH	00103	Koob,K
3111	3.0- 3.0		LEC	1A	TTh	02:00 - 02:50 pm	CS	00205	Koob,K
	3.0- 3.0	71069	LAB	3A	W	02:00 - 03:50 pm	CS	00206	Koob,K
			Prerequisite: Math 1208 or 1212 or 1214 with a grade of "C" or better.						
3113	3.0- 3.0	70937	LEC	1A	MWF	10:00 - 10:50 am	CH	00104	Koob,K
	3.0- 3.0	70938	LEC	1B	MWF	11:00 - 11:50 am	CH	00104	Koob,K
	3.0- 3.0	71233	LEC	1C	TTh	09:30 - 10:45 am	MCNT	00212	Wang,L
	3.0- 3.0	71234	LEC	1D	TTh	11:00 - 12:15 pm	MCNT	00211	Wang,L
	3.0- 3.0	73073	LEC	1E	MWF	01:00 - 01:50 pm	CS	00202	Du,J
	3.0- 3.0	73457	LEC	1F	MWF	02:00 - 02:50 pm	TMH	00256	Du,J
3115	3.0- 3.0	70940	LEC	1A	MWF	08:00 - 08:50 am	BCH	00314	Su,Y
	3.0- 3.0	70939	LEC	1B	MWF	09:00 - 09:50 am	BCH	00314	Su,Y
	3.0- 3.0	71235	LEC	1C	TTh	06:00 - 07:15 pm	CH	00104	Huo,L
	3.0- 3.0	72051	LEC	1D	TTh	03:30 - 04:45 pm	CS	00205	Huo,L
	3.0- 3.0	73678	LEC	1E	TTh	11:00 - 12:15 pm	CSF	00G5D	Paige,R
3117	3.0- 3.0	70941	LEC	1A	TTh	11:00 - 12:15 pm	CSF	00G5E	Wen,X
	3.0- 3.0	73458	LEC	1B	TTh	09:30 - 10:45 am	CS	00203	Wen,X
			Prerequisite: Math 2222 with a grade of "C" or better.						
4000	0.0- 6.0	70942	IND	6A	ARR	ARR	ARR		Adekpedjou,A
	0.0- 6.0	71839	IND	6B	ARR	ARR	ARR		Samaranayake,V
4099	0.0- 6.0	72302	IND	6A	ARR	ARR	ARR		Olbricht,G
			Prerequisite: Consent of instructor.						
5346	3.0- 3.0	71168	LEC	1A	MWF	01:00 - 01:50 pm	SHNK	00140	Olbricht,G
			Prerequisites: Math 2222 and one of Stat 3111, 3113, 3115, 3117, or 5643. (Co-listed with Comp Sci 5204)						
5643	3.0- 3.0	70943	LEC	1A	MWF	11:00 - 11:50 am	TMH	00260	Olbricht,G
			Prerequisite: Math 2222.						
5644	3.0- 3.0	71064	LEC	1A	MWF	10:00 - 10:50 am	ROLLA	000G4	Adekpedjou,A
			Prerequisite: Stat 5643.						
5755	3.0- 3.0	73459	LEC	1A	MWF	09:00 - 09:50 am	ROLLA	000G4	Adekpedjou,A
			Prerequisite: Stat 5643 and either Stat 5644 or a 3000-level Stat course. (Co-listed with Econ 4350)						
6000	0.0- 6.0	70944	IND	6A	ARR	ARR	ARR		Adekpedjou,A
	0.0- 6.0	70945	IND	6B	ARR	ARR	ARR		Samaranayake,V

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6001 Special Topics Prerequisites: Math 2222; Math 3108, Math 5108, or Math 6108; Stat 3111, Stat 3113, Stat 3115, Stat 3117, or Stat 5643.	3.0- 3.0	73460	LEC	1A	CANCELLED				
6099 Research	0.0-15.0	70946	IND	6A	ARR	ARR	ARR		Adepedjou,A
	0.0-15.0	70947	IND	6B	ARR	ARR	ARR		Olbricht,G
	0.0-15.0	71110	IND	6C	ARR	ARR	ARR		Paige,R
	0.0-15.0	71907	IND	6D	ARR	ARR	ARR		Samaranayake,V
	0.0-15.0	71936	IND	6E	ARR	ARR	ARR		Wen,X
6239 Clustering Algorithms Prerequisite: At least one graduate course in statistics, data mining, algorithms, computational intelligence, or neural networks, consistent with student's degree program. (Co-listed with Comp Eng 6330, Elec Eng 6340, Sys Eng 6214 and Comp Sci 6405)	3.0- 3.0	73205	LEC	1A	T	07:00 - 09:30 pm	EECH	00239	Wunsch,D
6344 Design And Analysis Of Experiments Prerequisites: One of Stat 5353, Eng Mgt 5715 and one of Stat 3111, 3113, 3115, 3117, 5643; or Stat 5643 and one of Stat 3111, 3113, 3115, 3117.	3.0- 3.0	71759	LEC	1A	TTh	09:30 - 10:45 am	CH	00105	Samaranayake,V
6658 Advanced Mathematical Statistics II Prerequisite: Stat 6657.	3.0- 3.0	73461	LEC	1A	TTh	02:00 - 03:15 pm	ROLLA	000G4	Paige,R

Systems Engineering

5040 Oral Examination	0.0- 0.0	71596	IND	6A	ARR	ARR	ARR		Dagli,C
5101 System Engineering and Analysis Prerequisite: Graduate Standing.	3.0- 3.0	71382	LEC	1A	T	04:00 - 06:30 pm	LIB	000G14	Pape II,L
5212 Introduction to Neural Networks and Applications Prerequisites: Graduate Standing. (Co-listed with Elec Eng 5370)	3.0- 3.0	71973	LEC	1A	T	04:00 - 06:30 pm	BERTELS	00B12A	Dagli,C
6050 Continuous Registration	1.0- 1.0	71298	IND	6A	ARR	ARR	ARR		Long,S
6099 Research Prerequisite: Graduate standing.	1.0-15.0	72182	IND	6A	ARR	ARR	ARR		Corns,S
	1.0-15.0	72183	IND	6B	ARR	ARR	ARR		Cudney,E
	1.0-15.0	72184	IND	6C	ARR	ARR	ARR		Dagli,C
	1.0-15.0	72185	IND	6D	ARR	ARR	ARR		Enke,D
	1.0-15.0	72186	IND	6E	ARR	ARR	ARR		Gosavi,A
	1.0-15.0	72187	IND	6F	ARR	ARR	ARR		Graham,K
	1.0-15.0	72188	IND	6G	ARR	ARR	ARR		Guardiola,I
	1.0-15.0	72189	IND	6H	ARR	ARR	ARR		Konur,D
	1.0-15.0	72190	IND	6J	ARR	ARR	ARR		Long,S
	1.0-15.0	72192	IND	6L	ARR	ARR	ARR		Qin,R
	1.0-15.0	72193	IND	6M	ARR	ARR	ARR		Raper,S
6102 Information Based Design Prerequisites: Graduate Standing.	3.0- 3.0	71076	LEC	1A	T	04:00 - 06:30 pm	LIB	00316	Guardiola,I
6103 Systems Life Cycle Costing Prerequisites: Graduate Standing.	3.0- 3.0	71369	LEC	1A	M	04:00 - 06:30 pm	LIB	00316	Yildirim,G
6104 Systems Architecting Prerequisites: Graduate Standing.	3.0- 3.0	71077	LEC	1A	M	04:00 - 06:30 pm	TMH	00260	Dagli,C
6105 Complex Engineering Systems Project Management Prerequisites: Graduate Standing.	3.0- 3.0	71711	LEC	1A	T	07:00 - 09:30 pm	LIB	000G14	Hoffman,G
6110 Function-Based Risk Analysis Prerequisite: Graduate standing.	3.0- 3.0	73345	LEC	1A	W	07:00 - 09:30 pm	BCH	00213	Qin,R
6196 Systems Engineering Capstone Prerequisites: Sys Eng 6105.	3.0- 3.0	71371	LEC	1A	M	07:00 - 09:30 pm	LIB	00316	Pape II,L
6215 Adaptive Dynamic Programming Prerequisites: Elec Eng 5370 or Comp Eng 5310. (Co-listed with Comp Eng 6320, Elec Eng 6360, Mech Eng 6458 and Aero Eng 6458)	3.0- 3.0	72777	LEC	1A	CANCELLED				

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6216 Advanced Topics in Data Mining Prerequisite: A "C" or better grade in Comp Sci 5001 Introduction to Data Mining . (Co-listed with Comp Sci 6402 and Comp Eng 6302)	3.0- 3.0	72818	LEC	1A	MWF	03:00 - 03:50 pm	BERTELS	00B12A	Leopold,J
6321 Modeling Complex Systems Prerequisites: Graduate Standing. (Co-listed with COMP ENG 6410)	3.0- 3.0	72718	LEC	1A	W	04:00 - 06:30 pm	TMH	00260	Dagli,C
6322 Resilient Networks Prerequisites: Sys Eng 6410, Comp Eng 6410, or Comp Eng 5420. (Co-listed with COMP ENG 6510)	3.0- 3.0	72151	LEC	1A	CANCELLED				
6324 Wireless Ad hoc and Sensor Networks Prerequisite: Comp Eng 5430 or Comp Eng 5420 or equivalent. (Co-listed with Comp Eng 6420 and Elec Eng 6430)	3.0- 3.0	73208	LEC	1A	MWF	08:00 - 08:50 am	FUL	00107A	Zawodniok,M
6542 Model Based Systems Engineering Prerequisites: Graduate Standing. (Co-listed with COMP SCI 6102)	3.0- 3.0	72931	LEC	1A	F	04:00 - 06:30 pm	LIB	000G14	Do,Q

Technical Communication

1600 Introduction to Technical Communication Prerequisite: English 1120. (Co-listed with English 1600)	3.0- 3.0	71191	LEC	1A	MWF	11:00 - 11:50 am	SHNK	00140	Stone,T
	3.0- 3.0	71682	LEC	1B	TTh	11:00 - 12:15 pm	H-SS	00102	Kerwin,R
	3.0- 3.0	72538	LEC	1C	ARR	ARR	ARR		Roberson,E
	This course is a full semester course.								
2560 Technical Marketing Communication Prerequisites: English 1600 or Tch Com 1600 or English 1160. (Co-listed with English 2560)	3.0- 3.0	71758	LEC	1A	MWF	11:00 - 11:50 am	CSF	00114	Roberson,E
	3.0- 3.0	71126	LEC	1B	ARR	ARR	ARR		Wright,M
3000 Special Problems	0.0- 6.0	71212	IND	6A	ARR	ARR	ARR		Wright,M
3001 Special Topics	3.0- 3.0	73387	LEC	1A	ARR	ARR	ARR		Malone,E
	Business Writing UM Shared Course-Secondary								
3440 Theory of Visual Technical Communication Prerequisites: TCH COM 1600 or ENGLISH 1600; TCH COM 2540 or ENGLISH 2540.	3.0- 3.0	73218	LEC	1A	TTh	02:00 - 03:15 pm	CSF	00114	Northcut,K
	UM Shared Course-Primary								
3570 Writing in the Sciences	3.0- 3.0	72980	LEC	1A	ARR	ARR	ARR		Malone,E
	Course meets second 8 weeks of the semester. UM Shared Course-Secondary								
4085 Internship Prerequisites: Must have completed 24 hours in the major core curriculum.	0.0- 6.0	71213	IND	6A	ARR	ARR	ARR		Wright,M
	0.0- 6.0	73094	IND	6B	ARR	ARR	ARR		Northcut,K
5000 Special Problems	0.0- 6.0	71708	IND	6A	ARR	ARR	ARR		Malone,E
5040 Oral Examination	0.0- 0.0	71528	IND	6A	ARR	ARR	ARR		Wright,M
5099 Research	0.0-15.0	71197	IND	6A	ARR	ARR	ARR		Northcut,K
	0.0-15.0	71469	IND	6B	ARR	ARR	ARR		Wright,M
	0.0-15.0	73003	IND	6C	ARR	ARR	ARR		Malone,E
5510 Technical Editing Prerequisites: One semester of college composition or technical writing, or graduate standing.	3.0- 3.0	73221	LEC	1A	Th	06:30 - 07:30 pm	ARR		Malone,E
	UM Shared Course-Primary								
5560 Web-Based Communication Prerequisites: One semester of college composition or technical writing, or graduate standing.	3.0- 3.0	73219	LEC	1A	TTh	09:30 - 10:45 am	CSF	00114	Wright,M
	UM Shared Course-Primary								
6440 Advanced Theories of Visual Technical Communication	3.0- 3.0	73220	LEC	1A	TTh	12:30 - 01:45 pm	CSF	00114	Northcut,K

Theatre

1142 Stage Productions, Performers Prerequisite: Participants selected by audition.	1.0- 1.0	72273	LAB	3A	ARR	ARR	ARR		Stanley,J
1143 Stage Productions, Technicians	1.0- 1.0	71361	LAB	3A	ARR	ARR	ARR		Gruenloh,T
1190 Theatre via Video	3.0- 3.0	73481	LEC	1A	TTh	09:30 - 10:45 am	H-SS	000G8	Gruenloh,T
	Field Trip Required								
2000 Special Problems	0.0- 6.0	71419	IND	6A	ARR	ARR	ARR		Shaw,K

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3000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	71420	IND	6B	ARR	ARR	ARR		Stanley,J
	0.0- 6.0	71118	IND	6A	ARR	ARR	ARR		Shaw,K
	0.0- 6.0	73677	IND	6B	ARR	ARR	ARR		Stanley,J
3241 Acting II Prerequisite: Theatre 2141.	3.0- 3.0		LEC	1A	TTh	03:30 - 04:45 pm	CASTL	00143	Stanley,J
	3.0- 3.0	71981	LAB	3A	ARR	ARR	CASTL	00143	Stanley,J
3243 Entertainment Design	3.0- 3.0		LEC	1A	M	03:00 - 03:50 pm	ARR		Shaw,K
	3.0- 3.0	71512	LAB	3A	W	03:00 - 05:00 pm	ARR		Shaw,K
3245 Voice, Diction and Interpretation (Co-listed with SP&M S 3245)	3.0- 3.0	73025	LEC	1A	TTh	11:00 - 12:15 pm	CASTL	00143	Stanley,J
									Field Trip Required
4000 Special Problems	0.0- 6.0	71504	IND	6A	ARR	ARR	ARR		Shaw,K
4341 Directing Prerequisite: Theatre 2141.	3.0- 3.0	72975	LEC	1A	W	02:00 - 04:50 pm	CASTL	00143	Gruenloh,T