

2018 FALL 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									
1110 Foundations Of The U.S. Air Force I	1.0- 1.0	74565	LEC	1A	W	10:00 - 10:50 am	HARR	00208	Ice,K
	1.0- 1.0	74567	LEC	1B	W	02:00 - 02:50 pm	HARR	00208	Ice,K
	1.0- 1.0		LAB	3A	Th	03:30 - 05:30 pm	EMGT	00103	Ice,K
	1.0- 1.0		LAB	3B	Th	03:30 - 05:30 pm	EMGT	00103	Ice,K
2110 The Evolution Of USAF Air And Space Power I	1.0- 1.0	76121	LEC	1A	W	11:00 - 11:50 am	HARR	00208	Unger,B
	1.0- 1.0	74570	LEC	1B	W	03:00 - 03:50 pm	HARR	00208	Unger,B
	1.0- 1.0		LAB	3A	Th	03:30 - 05:30 pm	EMGT	00103	Unger,B
	1.0- 1.0		LAB	3B	Th	03:30 - 05:30 pm	EMGT	00103	Unger,B
3110 Air Force Leadership Studies I	3.0- 3.0	74572	LEC	1A	T	03:00 - 05:30 pm	HARR	00208	Ice,K
	3.0- 3.0		LAB	3A	Th	03:30 - 05:30 pm	EMGT	00103	Ice,K
4110 National Security Affairs/Preparation For Active Duty I	3.0- 3.0	74574	LEC	1A	T	05:30 - 08:00 pm	ARR		Logsdon,C
	3.0- 3.0		LAB	3A	Th	03:30 - 05:30 pm	EMGT	00103	Logsdon,C
Aerospace Engineering									
2360 Dynamics	3.0- 3.0	75743	LEC	1A	MWF	08:00 - 08:50 am	TMH	00254	Du,X
Prerequisite: Grade of "C" or better in each of Civ Eng 2200, Math 2222.	3.0- 3.0	75744	LEC	1B	MWF	09:00 - 09:50 am	TMH	00254	Du,X
(Co-listed with Mech Eng 2360)	3.0- 3.0	77244	LEC	1C	TTh	09:30 - 10:45 am	BERTELS	00112A	Kumar,N
			LEC	1C	TTh	09:30 - 10:45 am	BERTELS	00112B	
2861 Aerospace Vehicle Performance	3.0- 3.0	74526	LEC	1A	MWF	08:00 - 08:50 am	MCNT	00204	Riggins,D
Prerequisite: A grade of "C" or better in both Math 1215 and Physics 1135.									
3002 Cooperative Engineering Training	0.0- 6.0	74527	IND	6A	ARR	ARR	ARR		Isaac,K
3131 Aerodynamics I	3.0- 3.0	74529	LEC	1A	TTh	09:30 - 10:45 am	BCH	00125	Duan,L
Prerequisites: A grade of "C" or better in each of Aero Eng 2861, Math 1214, Math 1215, Math 2222 and Physics 1135.	3.0- 3.0	77334	LEC	1B	TTh	11:00 - 12:15 pm	TMH	00250	Schmidt,J
3613 Aerospace Mechanics I	3.0- 3.0	74528	LEC	1A	TTh	08:00 - 09:15 am	EMGT	00103	Pernicka,H
Prerequisites: Math 3304; a grade of "C" or better in each of Aero Eng 2360 (or Mech Eng 2360), Math 1214 (or 1208), 1215 (or 1221),2222, and Physics 1135.									
3877 Principles of Engineering Materials	3.0- 3.0	74541	LEC	1A	MWF	08:00 - 08:50 am	MCNT	00216	Newkirk,J
(Co-listed with Chem Eng 5300, Physics 4523, Met Eng 5810, Cer Eng 5810)									
4000 Special Problems	0.0- 6.0	74535	IND	6A	ARR	ARR	ARR		Pernicka,H
Consent of instructor required.	0.0- 6.0	74536	IND	6B	ARR	ARR	ARR		
4099 Undergraduate Research	0.0- 6.0	74544	IND	6A	ARR	ARR	ARR		Balakrishnan,S
	0.0- 6.0	74545	IND	6B	ARR	ARR	ARR		Chandrashekhara,K
	0.0- 6.0	74546	IND	6C	ARR	ARR	ARR		DeMars,K
	0.0- 6.0	74547	IND	6D	ARR	ARR	ARR		Dharani,L
	0.0- 6.0	74548	IND	6E	ARR	ARR	ARR		Duan,L
	0.0- 6.0	74549	IND	6F	ARR	ARR	ARR		Hosder,S
	0.0- 6.0	74550	IND	6G	ARR	ARR	ARR		Isaac,K
	0.0- 6.0	76010	IND	6H	ARR	ARR	ARR		Pernicka,H
	0.0- 6.0	76011	IND	6J	ARR	ARR	ARR		Riggins,D
	0.0- 6.0	76502	IND	6K	ARR	ARR	ARR		Rovey,J
4253 Aerospace Structures II	3.0- 3.0	74531	LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00B10	Wojnar,C
Prerequisite: Aero Eng 3251.									
4535 Aircraft and Space Vehicle Propulsion	3.0- 3.0	74530	LEC	1A	MWF	09:00 - 09:50 am	TMH	00295	Riggins,D
Prerequisite: Mech Eng 3131, or Aero Eng 3171.									
4780 Aerospace Systems Design I	2.0- 2.0	74532	LEC	1A	MW	10:00 - 10:50 am	TMH	00249	Meeks,W
Prerequisites: Aero Eng 3251, 3361, 3171.									
4790 Spacecraft Design I	3.0- 3.0	74542	LEC	1A	F	10:00 - 10:50 am	ARR		Pernicka,H
Prerequisites: Aero Eng 3251, 3361, and 3171 for Aero Eng majors; consent of instructor for non-Aero Eng majors.			LEC	1A	W	04:00 - 06:00 pm	ARR		

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4883 Experimental Methods in Aerospace Engineering II Prerequisites: Aero Eng 3251, 3361, 3171, & 4882.	2.0- 2.0	74533	LAB	3A	M	11:00 - 11:50 am	H-SS	000G5	Isaac,K
			LAB	3A	M	01:00 - 03:00 pm	ARR		
	2.0- 2.0	74534	LAB	3B	M	11:00 - 11:50 am	H-SS	000G5	Isaac,K
			LAB	3B	M	03:00 - 05:00 pm	ARR		
	2.0- 2.0	76606	LAB	3C	M	11:00 - 11:50 am	H-SS	000G5	Isaac,K
			LAB	3C	T	01:00 - 03:00 pm	ARR		
	2.0- 2.0	75719	LAB	3D	M	11:00 - 11:50 am	H-SS	000G5	
			LAB	3D	T	03:00 - 05:00 pm	ARR		Isaac,K
	2.0- 2.0	76607	LAB	3E	M	11:00 - 11:50 am	H-SS	000G5	Isaac,K
			LAB	3E	Th	01:00 - 03:00 pm	ARR		
	2.0- 2.0	76608	LAB	3F	M	11:00 - 11:50 am	H-SS	000G5	Isaac,K
			LAB	3F	Th	03:00 - 05:00 pm	ARR		
4885 Assessment Prerequisites: Aero Eng 3171, Aero Eng 3361, Aero Eng 4535, Aero Eng 4253.	1.0- 1.0	77245	LEC	1A	W	03:00 - 03:50 pm	MCNT	00204	Isaac,K
5131 Intermediate Thermofluid Mechanics Prerequisite: Mech Eng 3131 or Aero Eng 3131. (Co-listed with Mech Eng 5131)	3.0- 3.0	76487	LEC	1A	MWF	03:00 - 03:50 pm	TMH	00260	Homan,K
5139 Computational Fluid Dynamics Prerequisites: Comp Sci 1570 or 1970 or 1971; one course in fluid mechanics. (Co-listed with Mech Eng 5139)	3.0- 3.0	74537	LEC	1A	MWF	01:00 - 01:50 pm	FUL	00107A	Isaac,K
5169 Introduction to Hypersonic Flow Prerequisites: Aero Eng 3171.	3.0- 3.0	75998	LEC	1A	TTh	11:00 - 12:15 pm	BERTELS	00B12B	Hosder,S
5171 V/Stol Aerodynamics Prerequisite: Aero Eng 3171.	3.0- 3.0	78200	LEC	1A	W	07:00 - 09:30 pm	FUL	00107A	Pitt,D
5212 Introduction to Finite Element Analysis Prerequisite: Mech Eng 3708 or Aero Eng 4253 or consent of instructor for majors that do not require either of these courses, or graduate standing. (Co-listed with Mech Eng 5212)	3.0- 3.0	74539	LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00103	Chandrashekhara,K
5238 Fatigue Analysis Prerequisite: Civ Eng 2210. (Co-listed with Mech Eng 5238)	3.0- 3.0	78107	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00213	Dharani,L
5307 Vibrations I Prerequisites: Mech Eng 3411 and 3313, or Aero Eng 3613 and Math 3304. (Co-listed with Mech Eng 5307)	3.0- 3.0	76486	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00250	Stutts,D
5313 Intermediate Dynamics of Mechanical and Aerospace Systems Prerequisite: Mech Eng 3313 or Aero Eng 3613. (Co-listed with Mech Eng 5313).	3.0- 3.0	78225	LEC	1A	TTh	03:30 - 04:45 pm	BCH	00317	DeMars,K
5361 Flight Dynamics-Stability And Control Prerequisite: Aero Eng 3361.	3.0- 3.0	74540	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00250	DeMars,K
5481 Mechanical and Aerospace Control Systems Prerequisite: Mech Eng 4479 or Aero Eng 3361. (Co-listed with Mech Eng 5481)	3.0- 3.0	74543	LEC	1A	TTh	03:30 - 04:45 pm	BCH	00121	Balakrishnan,S
5525 Intermediate Heat Transfer Prerequisite: Mech Eng 3525. (Co-listed with Mech Eng 5525)	3.0- 3.0	76861	LEC	1A	MWF	11:00 - 11:50 am	TMH	00254	Crosbie,A
5527 Combustion Processes Prerequisite: Mech Eng 3521. (Co-listed with Mech Eng 5527)	3.0- 3.0	76408	LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00B12A	Koylu,U
5570 Plasma Physics I Prerequisite: Aero Eng 3131 or Mech Eng 3131 or Physics 3211 or Nuc Eng 3221 or Elec Eng 3600. (Co-listed with Mech Eng 5570, Nuc Eng 4370, Physics 4543)	3.0- 3.0	77978	LEC	1A	TTh	08:00 - 09:15 am	TMH	00249	Han,D
5715 Concurrent Engineering Prerequisites: Mech Eng 3313 or Aero Eng 3131 and Civ Eng 2210 (Co-listed with Mech Eng 5715)	3.0- 3.0	75675	LEC	1A	Th	07:00 - 09:30 pm	BERTELS	00B12B	Appelman,H
6000 Special Problems	0.0- 6.0	77055	IND	6A	ARR	ARR	ARR		Dharani,L

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6001 Special Topics Prerequisites: Mech Eng 5131 or Aero Eng 5131; Mech Eng 5139 or Aero Eng 5139.	3.0- 3.0	77982	LEC	1A	MWF	12:00 - 12:50 pm	FUL	00107A	Homan,K
									Adv Comp Thermofluid
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	74564	IND	6A	ARR	ARR	ARR		
6099 Research Prerequisite: Consent of instructor required.	0.0-15.0	74552	IND	6A	ARR	ARR	ARR		Balakrishnan,S
	0.0-15.0	74553	IND	6B	ARR	ARR	ARR		Birman,V
	0.0-15.0	74554	IND	6C	ARR	ARR	ARR		Chandrashekhara,K
	0.0-15.0	74555	IND	6D	ARR	ARR	ARR		DeMars,K
	0.0-15.0	74556	IND	6E	ARR	ARR	ARR		Dharani,L
	0.0-15.0	74557	IND	6F	ARR	ARR	ARR		Duan,L
	0.0-15.0	74558	IND	6G	ARR	ARR	ARR		Eversman,W
	0.0-15.0	74559	IND	6H	ARR	ARR	ARR		Han,D
	0.0-15.0	74560	IND	6J	ARR	ARR	ARR		Hosder,S
	0.0-15.0	74561	IND	6K	ARR	ARR	ARR		Isaac,K
	0.0-15.0	74562	IND	6L	ARR	ARR	ARR		Krishnamurthy,K
	0.0-15.0	74563	IND	6M	ARR	ARR	ARR		Pemicka,H
	0.0-15.0	76223	IND	6N	ARR	ARR	ARR		Riggins,D
	0.0-15.0	76604	IND	6P	ARR	ARR	ARR		Wojnar,C
6135 Turbulent Flows - Theory, Measurements and Modeling Prerequisite: Mech Eng 5131 or Aero Eng 5131 or Mech Eng 5139 or Aero Eng 5139 or equivalent. (Co-listed with Mech Eng 6135)	3.0- 3.0	78111	LEC	1A	TTh	08:00 - 09:15 am	TMH	00250	Duan,L
6222 Theory of Elasticity Prerequisites: Civ Eng 2210. (Co-listed with Mech Eng 6222)	3.0- 3.0	78113	LEC	1A	TTh	09:30 - 10:45 am	LIB	000G14	Dharani,L
6284 Analysis of Laminated Composite Structures Prerequisite: Mech Eng 5282 or Aero Eng 5282. (Co-listed with Mech Eng 6284)	3.0- 3.0	75849	LEC	1A	W	04:00 - 06:30 pm	BERTELS	00B12B	Birman,V
6447 Markov Decision Processes Prerequisite: Graduate standing in background of probability or statistics. (Co-listed with Comp Eng 6310, Mech Eng 6447, Eng Mgt 6410 and Comp Sci 6202)	3.0- 3.0	76100	LEC	1A	M	04:00 - 06:30 pm	TMH	00260	Wunsch,D

Architectural Engineering

2003 Engineering Communications and Computations Prerequisite: Sophomore standing. (Co-listed with Civ Eng 2003)	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	BCH	00120	Schonberg,W
	3.0- 3.0	74577	LAB	3A	T	02:00 - 03:50 pm	BCH	00115	Schonberg,W
			See 'Notes' for Class Schedule						
	3.0- 3.0	75703	LAB	3B	Th	02:00 - 03:50 pm	BCH	00115	Schonberg,W
			See 'Notes' for Class Schedule						
	3.0- 3.0	75893	LAB	3C	Th	04:00 - 05:50 pm	BCH	00115	Schonberg,W
			See 'Notes' for Class Schedule						
3201 Structural Analysis I	3.0- 3.0		LEC	1A	TTh	09:30 - 10:20 am	BCH	00318	
	3.0- 3.0	77752	LAB	3A	Th	01:00 - 03:50 pm	BCH	00216	
3210 Structural Design in Metals Prerequisite: Arch Eng 3201 with grade of "C" or better. (Co-listed with Civ Eng 3210)	3.0- 3.0		LEC	1A	TTh	11:00 - 12:15 pm	BCH	00101	Yan,G
	3.0- 3.0	74583	LAB	3A	F	01:00 - 03:50 pm	BCH	00121	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	09:00 - 09:50 am	BCH	00315	Wu,C
	3.0- 3.0		LEC	1B	MW	09:00 - 09:50 am	BCH	00110	Sneed,L
	3.0- 3.0	74585	LAB	3A	Th	05:00 - 06:50 pm	BCH	00101	Wu,C
	3.0- 3.0	78123	LAB	3B	Th	01:00 - 03:50 pm	BCH	00318	Sneed,L
3804 Architectural Design II Prerequisite: Art 3203.	3.0- 3.0		LEC	1A	T	02:00 - 02:50 pm	BCH	00318	Baur,S
	3.0- 3.0	74579	LAB	3A	MW	03:00 - 05:50 pm	BCH	00321	Baur,S
	3.0- 3.0	74580	LAB	3B	TTh	03:00 - 05:50 pm	BCH	00321	Pickerill,H

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4010 Senior Seminar: Engineering In A Global Society Prerequisite: Senior standing. (Co-listed with Civ Eng and Env Eng 4010)	1.0- 1.0	74581	RSD	2A	W	12:00 - 12:50 pm	BCH	00120	Burken,J
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	75707	LEC	1A	M	01:00 - 03:50 pm	BCH	00123	
			LEC	1A	M	01:00 - 03:50 pm	BCH	00120	
			LEC	1A	M	01:00 - 03:50 pm	BCH	00122	Showalter,W
4099 Undergraduate Research	0.0- 6.0	75717	IND	6A	ARR	ARR	ARR		Baur,S
	0.0- 6.0	76296	IND	6B	ARR	ARR	ARR		Myers,J
4448 Fundamentals Of Contracts And Construction Engineering Prerequisite: Senior Standing. (Co-listed with Civ Eng 4448)	3.0- 3.0	74586	LEC	1A	TTh	08:00 - 09:15 am	BCH	00213	Showalter,W
	3.0- 3.0	77470	LEC	1B	TTh	09:30 - 10:45 am	BCH	00101	Showalter,W
4850 Building Electrical Systems Prerequisites: Arch Eng 4800 and Arch Eng 4820	3.0- 3.0	78223	LEC	1A	MWF	11:00 - 11:50 am	BCH	00317	Gillis,W
5205 Structural Analysis II Prerequisites: Civ Eng 3201 or Arch Eng 3201. (Co-listed with Civ Eng 5205)	3.0- 3.0	78127	LEC	1A	TTh	12:30 - 01:45 pm	BERTELS	00B12B	Schonberg,W
5206 Low-Rise Building Analysis And Design Prerequisite: Preceded and/or accompanied by Civ -Arch Eng 3210 or Civ-Arch Eng 3220. (Co-listed with Civ Eng 5206)	3.0- 3.0	77224	LEC	1A	MWF	11:00 - 11:50 am	CS	00209	Thomas,J
5270 Structural Masonry Design Prerequisites: Arch Eng 3201 or Civ Eng 3201. (Co-listed with Civ Eng 5270)	3.0- 3.0	77966	LEC	1A	Th	04:00 - 06:30 pm	BERTELS	00B12A	Mcmillian,D
5442 Construction Planning and Scheduling Strategies Prerequisite: Civ Eng or Arch Eng 4448. (Co-listed with Civ Eng 5442)	3.0- 3.0	78128	LEC	1A	M	04:00 - 06:30 pm	BCH	00110	Bodapati,S
5445 Construction Methods Prerequisite: Arch Eng 4448 with a grade of "C" or better. (Co-listed with Civ Eng 5445)	3.0- 3.0	74587	LEC	1A	MWF	10:00 - 10:50 am	BCH	00315	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	76416	LEC	1A	MWF	10:00 - 10:50 am	BCH	00213	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	77253	LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00B12B	
5642 Sustainability, Population, Energy, Water, and Materials Prerequisite: Senior or graduate standing. (Co-listed with Env Eng 5642 and Civ Eng 5642)	3.0- 3.0	76394	LEC	1A	TTh	09:30 - 10:45 am	BCH	00213	Fitch,M
5850 Residential Renewable Energy Systems Prerequisites: Senior standing and consent of instructor, or Mech Eng 2527 or Civ Eng 3842.	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	BCH	00110	Baur,S
	3.0- 3.0	78031	LAB	3A	ARR	ARR	ARR		Baur,S
6001 Special Topics Prerequisites: Civ Eng/ArchE 5208 or equivalent.	3.0- 3.0	78152	LEC	1B	TTh	02:00 - 03:15 pm	LIB	000G14	Chen,G
									Structural Health Monitoring
Art									
1120 Drawing I	3.0- 3.0	74588	LEC	1A	W	02:00 - 04:30 pm	CH	00213	Arthur,S
1140 Painting I	3.0- 3.0	74589	LEC	1A	W	04:45 - 07:30 pm	CH	00213	Shoemaker,C
1164 Sculpture	3.0- 3.0	76208	LEC	1A	TTh	02:00 - 03:15 pm	CH	00213	Myers,L
1180 Art Appreciation	3.0- 3.0	75836	LEC	1A	MWF	11:00 - 11:50 am	CASTL	00138	Arthur,S
	3.0- 3.0	75701	LEC	1C	TTh	09:30 - 10:45 am	CH	00213	Arthur,S

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1185 Study Of Film	3.0- 3.0	75837	LEC	1E	TTh	03:30 - 04:45 pm	CASTL	00138	Arthur,S
	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	74591	LAB	3A	T	07:00 - 10:00 pm	CASTL	LEACH	Tohline,A
3001 Special Topics Prerequisites: Art 1185.	3.0- 3.0	74593	LAB	3B	T	07:00 - 10:00 pm	CASTL	LEACH	Tohline,A
	3.0- 3.0	78012	LEC	1A	TTh	03:30 - 04:45 pm	H-SS	00203	Tohline,A
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	77638	LAB	3A	Th	12:30 - 01:45 pm	CH	00213	Myers,L
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	76023	LEC	1A	W	06:30 - 09:15 pm	CSF	00114	Rupert,B
	3.0- 3.0	76632	LEC	1B	Th	06:30 - 09:15 pm	CSF	00114	Rupert,B
	3.0- 3.0	77713	LEC	1C	T	04:30 - 07:30 pm	CSF	00114	Phelan,R
3260 Exploring Digital Art	3.0- 3.0		LEC	1A	W	04:00 - 05:15 pm	CS	00206	Myers,L
	3.0- 3.0	77052	LAB	3A	W	05:15 - 06:30 pm	CS	00206	Myers,L
3276 Thematics Studies in Film and Philosophy Prerequisites: Art 1185 or one philosophy course, or junior standing. (Co-listed with Philos 3276)	3.0- 3.0	78018	LEC	1A	M	06:00 - 08:30 pm	H-SS	00104	Dittmer,J
3500 Innovation Through Design Thinking	3.0- 3.0	78298	LAB	3A	M	04:00 - 06:30 pm	H-SS	00203	Myers,L

Arts, Languages & Philosophy

1001 Special Topics	5.0- 5.0	78213	LEC	1A	ARR	ARR	ARR		Ivliyeva,I
4397 Multidisciplinary Studies Capstone Prerequisite: Senior status.	3.0- 3.0	77167	LEC	1A	ARR	ARR	ARR		Haynes,W

Biological Sciences

1113 General Biology Prerequisite: Entrance requirements.	3.0- 3.0	74617	LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00112B	
			LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00112A	Sui,N
1163 Biotechnology in Film	3.0- 3.0	78021	LEC	1A	W	06:00 - 08:30 pm	SHNK	000G3	Hou,C
1201 Biological Sciences Freshman Seminar Prerequisite: Biological Sciences majors only.	1.0- 1.0	77547	RSD	2B	T	10:00 - 10:50 am	BCH	00120	Mormile,M
1219 General Biology Lab	2.0- 2.0		LEC	1B	W	02:00 - 02:50 pm	SHNK	00111	Sui,N
	2.0- 2.0		LEC	1C	T	06:00 - 06:50 pm	SHNK	00111	Sui,N
	2.0- 2.0	74621	LAB	3B	W	03:00 - 04:50 pm	SHNK	00111	Sui,N
	2.0- 2.0	76340	LAB	3C	T	07:00 - 08:50 pm	SHNK	00111	Sui,N
1223 Biodiversity	3.0- 3.0	76932	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00315	Niyogi,D
1229 Biodiversity Lab Prerequisite: Preceded or accompanied by Biodiversity (Bio Sci 1223)	1.0- 1.0	76933	LAB	3A	M	02:00 - 05:00 pm	SHNK	00111	Wilson,T
	1.0- 1.0	76934	LAB	3B	M	06:00 - 09:00 pm	SHNK	00111	Wilson,T
2213 Cell Biology Prerequisites: Preceded or accompanied by CHEM 1320.	3.0- 3.0	74622	LEC	1A	MWF	11:00 - 11:50 am	CH	00104	Shannon,K
2219 Cell Biology Laboratory Prerequisite: Preceded or accompanied by Bio Sci 2213.	1.0- 1.0	75910	LAB	3A	Th	02:00 - 03:50 pm	SHNK	00111	Wilson,T
	1.0- 1.0	75911	LAB	3B	F	02:00 - 03:50 pm	SHNK	00111	Wilson,T
			LAB	3B	ARR	ARR	ARR		
	1.0- 1.0	76249	LAB	3C	Th	06:00 - 07:50 pm	SHNK	00111	Wilson,T
			LAB	3C	ARR	ARR	ARR		
2223 General Genetics	3.0- 3.0	75735	LEC	1A	MWF	10:00 - 10:50 am	EMGT	00103	Sui,N
2263 Ecology Prerequisite: Bio Sci 1113 or Bio Sci 1213 or Bio Sci 1223.	3.0- 3.0	74623	LEC	1A	TTh	11:00 - 12:15 pm	CH	00104	Huang,Y
2372 Issues in Public Health Prerequisite: Bio Sci 1113 or Bio Sci 1213.	3.0- 3.0	77463	LEC	1A	TTh	09:30 - 10:45 am	CS	00203	Huang,Y

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3000 Special Problems	0.0- 6.0	75752	IND	6A	ARR	ARR	ARR		Duvernell,D
	0.0- 6.0	74624	IND	6B	ARR	ARR	ARR		Frank,R
	0.0- 6.0	74625	IND	6D	ARR	ARR	ARR		Huang,Y
	0.0- 6.0	74626	IND	6E	ARR	ARR	ARR		Hou,C
	0.0- 6.0	74627	IND	6F	ARR	ARR	ARR		Mormile,M
	0.0- 6.0	74628	IND	6G	ARR	ARR	ARR		Niyogi,D
	0.0- 6.0	74629	IND	6H	ARR	ARR	ARR		Semon,J
	0.0- 6.0	74630	IND	6J	ARR	ARR	ARR		Shannon,K
	0.0- 6.0	74631	IND	6K	ARR	ARR	ARR		Thimgan,M
	0.0- 6.0	77636	IND	6L	ARR	ARR	ARR		Westenberg,D
	0.0- 6.0	77734	IND	6M	ARR	ARR	ARR		Wilson,T
3001 Special Topics Prerequisites: BIO SCI 2213.	3.0- 3.0	78022	LEC	1A	TTh	09:30 - 10:45 am	SHNK	00305	Hou,C
									Biology of Aging
3233 Evolution Prerequisites: Bio Sci 2223.	3.0- 3.0	78272	LEC	1A	MWF	01:00 - 01:50 pm	CH	00104	Frank,R
3313 Microbiology Prerequisite: Chem 1320 and Bio Sci 2213.	3.0- 3.0	76179	LEC	1A	MWF	09:00 - 09:50 am	CS	00204	Mormile,M
									Communication Emphasized
3319 Microbiology Lab Prerequisite: Preceded or accompanied by Bio Sci 3313.	2.0- 2.0	78023	LAB	3A	TTh	02:00 - 03:50 pm	SHNK	000G7	Westenberg,D
	2.0- 2.0	78304	LAB	3B	TTh	11:00 - 12:50 pm	SHNK	000G7	Westenberg,D
3333 Human Anatomy and Physiology I Prerequisite: Bio Sci 1113 or Bio Sci 1213 or Bio Sci 2213.	3.0- 3.0	76287	LEC	1A	MWF	12:00 - 12:50 pm	TMH	00295	Thimgan,M
3339 Human Anatomy Physiology I Lab Prerequisite: Preceded or accompanied by Bio Sci 3333.	1.0- 1.0	76288	LAB	3A	W	02:00 - 04:50 pm	SHNK	00313	Havens,S
	1.0- 1.0	76358	LAB	3B	W	06:00 - 08:50 pm	SHNK	00313	Havens,S
3783 Biological Design and Innovation I Prerequisite: At least two 2000 level or higher Biology courses.	3.0- 3.0	77464	LAB	3A	TTh	11:00 - 12:15 pm	NOR	00208	Semon,J
4010 Seminar Prerequisite: Senior standing.	1.0- 1.0	74632	RSD	2A	F	10:00 - 10:50 am	CH	00103	Shannon,K
	1.0- 1.0	74633	RSD	2B	Th	10:00 - 10:50 am	CH	00103	Shannon,K
4099 Undergraduate Research Prerequisite: Consent of instructor.	1.0- 3.0	75724	IND	6A	ARR	ARR	ARR		Duvernell,D
	1.0- 3.0	75725	IND	6B	ARR	ARR	ARR		Frank,R
	1.0- 3.0	75726	IND	6D	ARR	ARR	ARR		Huang,Y
	1.0- 3.0	75727	IND	6E	ARR	ARR	ARR		Hou,C
	1.0- 3.0	75728	IND	6F	ARR	ARR	ARR		Mormile,M
	1.0- 3.0	75729	IND	6G	ARR	ARR	ARR		Niyogi,D
	1.0- 3.0	75730	IND	6H	ARR	ARR	ARR		Semon,J
	1.0- 3.0	75731	IND	6J	ARR	ARR	ARR		Shannon,K
	1.0- 3.0	76042	IND	6K	ARR	ARR	ARR		Thimgan,M
	1.0- 3.0	77736	IND	6L	ARR	ARR	ARR		Westenberg,D
4313 Introduction to Environmental Microbiology Prerequisite: Bio Sci 3313.	3.0- 3.0	78024	LEC	1A	CANCELLED				
4323 Molecular Genetics Prerequisites: Bio Sci 2223 and Bio Sci 2213.	3.0- 3.0	74634	LEC	1A	MWF	11:00 - 11:50 am	BERTELS	00B12A	Frank,R
4353 Cancer Cell Biology Prerequisite: Bio Sci 2213.	3.0- 3.0	76382	LEC	1A	TTh	12:30 - 01:45 pm	BERTELS	00B12A	Shannon,K
4363 Freshwater Ecology Prerequisite: Bio Sci 2263.	3.0- 3.0	76180	LEC	1A	TTh	02:00 - 03:15 pm	ROLLA	000G4	Niyogi,D
4493 General Virology Prerequisites: Bio Sci 1113 or 1213; Bio Sci 2213, 3313, Chem 1310, 1320, 2210.	3.0- 3.0	78027	LEC	1A	MWF	02:00 - 02:50 pm	CH	00103	Westenberg,D
5000 Special Problems Prerequisite: Consent of the instructor.	0.0- 6.0	75796	IND	6A	ARR	ARR	ARR		Duvernell,D
	0.0- 6.0	75797	IND	6B	ARR	ARR	ARR		Frank,R
	0.0- 6.0	75798	IND	6C	ARR	ARR	ARR		Huang,Y
	0.0- 6.0	75799	IND	6D	ARR	ARR	ARR		Hou,C
	0.0- 6.0	75800	IND	6E	ARR	ARR	ARR		Mormile,M
	0.0- 6.0	75783	IND	6F	ARR	ARR	ARR		Niyogi,D
	0.0- 6.0	75801	IND	6G	ARR	ARR	ARR		Semon,J
	0.0- 6.0	75802	IND	6H	ARR	ARR	ARR		Shannon,K
	0.0- 6.0	77735	IND	6J	ARR	ARR	ARR		Thimgan,M
	0.0- 6.0	77739	IND	6K	ARR	ARR	ARR		Westenberg,D

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5001 Special Topics Prerequisites: Bio Sci 2213.	3.0- 3.0	78026	LEC	1A	TTh	09:30 - 10:45 am	IDE	000G4A	Semon,J
	3.0- 3.0	78088	LEC	1B	MWF	10:00 - 10:50 am	IDE	000G4A	Duvernell,D
5010 Graduate Seminar	0.0- 6.0	75887	RSD	2A	ARR	ARR	ARR		Semon,J
5040 Oral Examination	0.0- 0.0	75972	IND	6A	ARR	ARR	ARR		
5099 Graduate Research	0.0-15.0	75732	IND	6A	ARR	ARR	ARR		Duvernell,D
	0.0-15.0	74635	IND	6B	ARR	ARR	ARR		Frank,R
	0.0-15.0	76256	IND	6C	ARR	ARR	ARR		Huang,Y
	0.0-15.0	74636	IND	6D	ARR	ARR	ARR		Hou,C
	0.0-15.0	74637	IND	6E	ARR	ARR	ARR		Mormile,M
	0.0-15.0	74638	IND	6F	ARR	ARR	ARR		Niyogi,D
	0.0-15.0	74639	IND	6G	ARR	ARR	ARR		Semon,J
	0.0-15.0	74640	IND	6H	ARR	ARR	ARR		Shannon,K
	0.0-15.0	74641	IND	6J	ARR	ARR	ARR		Thingan,M
	0.0-15.0	77737	IND	6K	ARR	ARR	ARR		Westenberg,D
5210 Biomaterials I Prerequisite: Senior undergraduate standing. (Co-listed with Chem Eng 5200, MS&E 5310)	3.0- 3.0	76594	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00256	Jung,S
6210 Biomaterials II Prerequisite: Graduate Standing. (Co-listed with CHEM ENG 6300, MS&E 6310)	3.0- 3.0	76595	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00256	Jung,S
6273 Techniques In Applied And Environmental Biology Prerequisite: Graduate standing.	3.0- 3.0	75886	LEC	1A	ARR	ARR	ARR		Huang,Y
6313 Environmental Microbiology Prerequisite: Must be a graduate student.	3.0- 3.0	78025	LEC	1A	CANCELLED				
6353 Advanced Cancer Cell Biology Prerequisite: Bio Sci 2213.	3.0- 3.0	76383	LEC	1A	TTh	12:30 - 01:45 pm	BERTELS	00B12A	Shannon,K
6363 Advanced Freshwater Ecology Prerequisite: Graduate student standing.	3.0- 3.0	76181	LEC	1A	TTh	02:00 - 03:15 pm	ROLLA	000G4	Niyogi,D

Business

1000 Special Problems	0.0- 6.0	76534	IND	6A	ARR	ARR	ARR		Siau,K
1110 Introduction to Management and Entrepreneurship	3.0- 3.0	74642	LEC	1A	TTh	03:30 - 04:45 pm	BCH	00120	Harvey,E
1210 Financial Accounting	3.0- 3.0	76454	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00317	Eng,L
	3.0- 3.0	76224	LEC	1B	TTh	11:00 - 12:15 pm	BCH	00316	Eng,L
1810 Introduction to College Success	1.0- 1.0	76533	LEC	1A	M	12:00 - 12:50 pm	MCNT	00204	Siau,K
2910 Business Law	3.0- 3.0	74643	LEC	1A	TTh	03:30 - 04:45 pm	CS	00203	Anderson,E
4099 Undergraduate Research	0.0- 6.0	75858	IND	6A	ARR	ARR	ARR		Elrod,C
	0.0- 6.0	76214	IND	6B	ARR	ARR	ARR		Lea,B
4111 Business Negotiations Prerequisites: At least Junior status.	3.0- 3.0	76925	LEC	1A	MWF	11:00 - 11:50 am	BCH	00213	Bates,C
5080 Practicum Prerequisite: Business Core.	0.0- 6.0	76263	IND	6A	ARR	ARR	ARR		
5085 Internship Prerequisite: Graduate standing.	0.0- 6.0	76142	IND	6A	ARR	ARR	ARR		
5099 Research Prerequisite: Permission of the instructor.	0.0- 9.0	75948	IND	6A	ARR	ARR	ARR		Elrod,C
	0.0- 9.0	76213	IND	6B	ARR	ARR	ARR		Lea,B
5230 Financial Statement Analysis Prerequisite: FINANCE 2150 or Graduate Standing.	3.0- 3.0	77622	LEC	1A	MWF	01:00 - 01:50 pm	LIB	000G14	Chiu,Y
5360 Business Operations Prerequisites: BUS 1210 or ENG MGT 2211; at least Junior standing; and one of the following: STAT 1111, STAT 1115, STAT 1116, STAT 3111, STAT 3113, STAT 3115, or STAT 3117.	3.0- 3.0	76000	LEC	1A	MWF	02:00 - 02:50 pm	BCH	00216	Chen,L
5910 Privacy and Information Security Law	3.0- 3.0	77898	LEC	1A	M	04:00 - 06:30 pm	BERTELS	00B12A	Canis,R

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5980 Business Models for Entrepreneurship and Innovation Prerequisite: Senior or graduate standing.	3.0- 3.0	76489	LEC	1A	MWF	03:00 - 03:50 pm	BCH	00213	Fang,H
6111 Advanced Business Negotiations Prerequisite: Graduate status.	3.0- 3.0	76919	LEC	1A	MWF	11:00 - 11:50 am	BCH	00213	Bates,C
6121 Teambuilding and Leadership Prerequisite: Graduate standing.	3.0- 3.0	76935	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00121	Elrod,C
6426 Integration of Business Areas Prerequisite: Graduate standing.	3.0- 3.0	76273	LEC	1A	M	04:00 - 06:30 pm	EECH	00239	Fang,H
6622 International Marketing Prerequisite: Graduate standing.	3.0- 3.0	76096	LEC	1A	Th	04:00 - 06:30 pm	FUL	00107A	Stanley,S
6827 Managerial Finance Prerequisite: Graduate standing.	3.0- 3.0	76122	LEC	1A	W	04:00 - 06:30 pm	FUL	00107A	Zhang,H
6887 Research Methods in Business and IS&T (Co-listed with IS&T 6887)	3.0- 3.0	77043	LEC	1A	Th	07:00 - 09:30 pm	FUL	00107A	Nah,F

Ceramic Engineering

2002 Cooperative Training	1.0- 3.0	74647	IND	6A	ARR	ARR	ARR		Schwartz,R
2110 Atomic Structure Of Crystalline Ceramics	3.0- 3.0	74644	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00212	Huebner,W
2210 Ceramics In The Modern World	2.0- 2.0	74645	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	74645	LEC	1A	T	12:00 - 12:50 pm	MCNT	00245	Reidmeyer,M
	2.0- 2.0	77579	LAB	3A	M	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
	2.0- 2.0	77580	LAB	3B	M	04:00 - 06:00 pm	Glass Shop	000G3	Reidmeyer,M
	2.0- 2.0	77581	LAB	3C	T	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
	2.0- 2.0	77582	LAB	3D	T	04:00 - 06:00 pm	Glass Shop	000G3	Reidmeyer,M
	2.0- 2.0	77583	LAB	3E	W	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
	2.0- 2.0	77584	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	74646	LAB	3A	M	01:00 - 04:50 pm	MCNT	00212	
			LAB	3A	ARR	ARR	ARR		
	2.0- 2.0	76159	LAB	3B	M	01:00 - 04:50 pm	MCNT	00212	
			LAB	3B	ARR	ARR	ARR		
	2.0- 2.0	77064	LAB	3C	M	01:00 - 04:50 pm	MCNT	00212	
			LAB	3C	ARR	ARR	ARR		
3210 Thermal Processes In Ceramics	3.0- 3.0	74648	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00210	Dogan,F
3220 Phase Equilibria Prerequisite: A grade of "C" or better in Cer Eng 3230.	3.0- 3.0	76320	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00212	Smith,J
3230 Thermodynamics of Materials Prerequisite: "C" or better grade in either Met Eng 1210 or Chem 1320.	3.0- 3.0	77554	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00210	Moats,M
3315 Ceramic Processing Lab I Prerequisite: "C" or better grade in Cer Eng 2325.	2.0- 2.0	74649	LAB	3A	T	01:00 - 04:50 pm	MCNT	00206	
			LAB	3A	ARR	ARR	ARR		
	2.0- 2.0	74650	LAB	3B	T	01:00 - 04:50 pm	MCNT	00206	
			LAB	3B	ARR	ARR	ARR		
	2.0- 2.0	77624	LAB	3C	T	01:00 - 04:50 pm	MCNT	00206	
			LAB	3C	ARR	ARR	ARR		
4000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	74651	IND	6A	ARR	ARR	ARR		Brow,R
	0.0- 6.0	74652	IND	6B	ARR	ARR	ARR		Dogan,F
	0.0- 6.0	74653	IND	6C	ARR	ARR	ARR		Fahrenholtz,W
	0.0- 6.0	74654	IND	6D	ARR	ARR	ARR		Hilmas,G
	0.0- 6.0	74655	IND	6E	ARR	ARR	ARR		Huebner,W
	0.0- 6.0	74656	IND	6F	ARR	ARR	ARR		Reidmeyer,M
	0.0- 6.0	74657	IND	6G	ARR	ARR	ARR		Smith,J
4096 Materials Senior Design I Prerequisites: Met Eng 3125 and Met Eng 2125, or Cer Eng 3315 with a "C" or better. (Co-listed with Met Eng 4096)	3.0- 3.0	76590	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00216	Schlesinger,M
			Communication Emphasized						
4099 Undergraduate Research	0.0- 6.0	74660	IND	6A	ARR	ARR	ARR		Brow,R
	0.0- 6.0	74661	IND	6B	ARR	ARR	ARR		Day,D
	0.0- 6.0	74662	IND	6C	ARR	ARR	ARR		Dogan,F
	0.0- 6.0	74663	IND	6D	ARR	ARR	ARR		Fahrenholtz,W
	0.0- 6.0	74664	IND	6E	ARR	ARR	ARR		Hilmas,G
	0.0- 6.0	74665	IND	6F	ARR	ARR	ARR		Huebner,W
	0.0- 6.0	74666	IND	6G	ARR	ARR	ARR		Kumar,A
	0.0- 6.0	74667	IND	6H	ARR	ARR	ARR		Lipke,D

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		0.0- 6.0	77346	IND	6J	ARR	ARR	ARR		Rahaman,M
		0.0- 6.0	77768	IND	6K	ARR	ARR	ARR		Schwartz,R
		0.0- 6.0	78055	IND	6L	ARR	ARR	ARR		Smith,J
4250	Thermal Properties Of Ceramics Prerequisite: Senior standing.	3.0- 3.0	74658	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00212	Hilmas,G
4310	Ceramic Processing Prerequisite: Senior standing.	3.0- 3.0	75813	LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00102	Lipke,D
4410	Introduction to Integrated Computational Materials Engineering	3.0- 3.0		LEC	1A					CANCELLED
		3.0- 3.0	77690	LAB	3A					CANCELLED
5000	Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	74668	IND	6A	ARR	ARR	ARR		Brow,R
		0.0- 6.0	74669	IND	6B	ARR	ARR	ARR		Fahrenholtz,W
		0.0- 6.0	75991	IND	6C	ARR	ARR	ARR		Reidmeyer,M
		0.0- 6.0	76348	IND	6D	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	74680	IND	6A	ARR	ARR	ARR		
5099	Research Prerequisite: Consent of instructor required.	0.0-15.0	74670	IND	6A	ARR	ARR	ARR		Brow,R
		0.0-15.0	74671	IND	6B	ARR	ARR	ARR		Day,D
		0.0-15.0	74672	IND	6C	ARR	ARR	ARR		Dogan,F
		0.0-15.0	74673	IND	6D	ARR	ARR	ARR		Fahrenholtz,W
		0.0-15.0	74674	IND	6E	ARR	ARR	ARR		Hilmas,G
		0.0-15.0	74675	IND	6F	ARR	ARR	ARR		Huebner,W
		0.0-15.0	74676	IND	6G	ARR	ARR	ARR		Schwartz,R
		0.0-15.0	74677	IND	6H	ARR	ARR	ARR		Smith,J
		0.0-15.0	74678	IND	6J	ARR	ARR	ARR		Switzer,J
		0.0-15.0	78056	IND	6K	ARR	ARR	ARR		
5115	X-Ray Diffraction Analysis	3.0- 3.0		LEC	1A	MW	10:00 - 10:50 am	MCNT	00210	Fahrenholtz,W
		3.0- 3.0	78040	LAB	3A	F	10:00 - 10:50 am	MCNT	00210	Fahrenholtz,W
5230	Glass Science And Engineering Prerequisite: "C" or better grade in Cer Eng 2120.	3.0- 3.0	76521	LEC	1A	TTh	08:00 - 09:15 am	MCNT	00210	Brow,R
5810	Principles Of Engineering Materials (Co-listed with Aero Eng 3877, Chem Eng 5300, Physics 4523, Met Eng 5810)	3.0- 3.0	74659	LEC	1A	MWF	08:00 - 08:50 am	MCNT	00216	Newkirk,J
6050	Continuous Registration Doctoral students only. Graduate office permission required.	1.0- 1.0	74681	IND	6A	ARR	ARR	ARR		Moats,M
6085	Internship DE students only.	0.0-15.0	74679	IND	6A	ARR	ARR	ARR		Huebner,W
6099	Research	0.0-15.0	77000	IND	6A	ARR	ARR	ARR		Brow,R
		0.0-15.0	77001	IND	6B	ARR	ARR	ARR		Day,D
		0.0-15.0	77002	IND	6C	ARR	ARR	ARR		Dogan,F
		0.0-15.0	77003	IND	6D	ARR	ARR	ARR		Fahrenholtz,W
		0.0-15.0	77004	IND	6E	ARR	ARR	ARR		Hilmas,G
		0.0-15.0	77005	IND	6F	ARR	ARR	ARR		Huebner,W
		0.0-15.0	77006	IND	6G	ARR	ARR	ARR		Kumar,A
		0.0-15.0	77007	IND	6H	ARR	ARR	ARR		Lipke,D
		0.0-15.0	77008	IND	6J	ARR	ARR	ARR		Schwartz,R
		0.0-15.0	77009	IND	6K	ARR	ARR	ARR		Smith,J
		0.0-15.0	77342	IND	6L	ARR	ARR	ARR		Switzer,J
		0.0-15.0	78057	IND	6M	ARR	ARR	ARR		Watts,J
6410	Advanced Integrated Computational Materials Engineering	3.0- 3.0		LEC	1A					CANCELLED
		3.0- 3.0	77692	LAB	3A					CANCELLED

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	12:00 - 12:50 pm	BERTELS	00112A	Park,J
				LEC	1A	MW	12:00 - 12:50 pm	BERTELS	00112B	
		3.0- 3.0	74683	LAB	3A	F	12:00 - 12:50 pm	BERTELS	00112A	Park,J
				LAB	3A	F	12:00 - 12:50 pm	BERTELS	00112B	
2110	Chemical Engineering Thermodynamics I	3.0- 3.0	77137	LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00B10	Wang,J
2300	Chemical Process Materials Prerequisites: Physics 1135.	3.0- 3.0	77392	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00204	Liang,X
3002	Cooperative Engineering Training	0.0- 6.0	74685	IND	6A	ARR	ARR	ARR		Ludlow,D

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3100 Chemical Engineering Fluid Flow Prerequisites: Chem Eng 2100 and Math 3304; Chem Eng majors only.	3.0- 3.0	74686	LEC	1A	MWF	02:00 - 02:50 pm	BERTELS	00112B	Neogi,P
			LEC	1A	MWF	02:00 - 02:50 pm	BERTELS	00112A	
3101 Fundamentals of Transport in Chemical and Biochemical Engineering Prerequisites: Math 3304 and Chem Eng 2110. Admitted to the Chemical Engineering Program.	4.0- 4.0	78194	LEC	1A	W	11:00 - 11:50 am	PHYS	00104	Rezaei,F
			LEC	1A	TTh	11:00 - 12:15 pm	PHYS	00104	
3110 Chemical Engineering Heat Transfer Prerequisites: Math 2222 and preceded or accompanied by Chem Eng 3100. Chem Eng majors only.	2.0- 2.0	76118	LEC	1A	MW	03:00 - 03:50 pm	BERTELS	00B10	Al Dahhan,M
3111 Numerical Computing in Chemical and Biochemical Engineering Prerequisites: Math 3304 and either both Comp Sci 1971 and Comp Sci 1981 or both Comp Sci 1972 and Comp Sci 1982. Admitted to the Chemical Engineering Program.	3.0- 3.0		LEC	1A	TTh	08:00 - 09:15 am	BERTELS	00B12B	Luks,C
	3.0- 3.0		LEC	1B	TTh	08:00 - 09:15 am	Lab	00124	
	3.0- 3.0	78196	LAB	3A	ARR	ARR	ARR		Luks,C
	3.0- 3.0	78285	LAB	3B	ARR	ARR	ARR	ARR	
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	74684	LEC	1A	MWF	04:00 - 04:50 pm	BERTELS	00B10	Park,J
3130 Staged Mass Transfer Prerequisites: Chem Eng 3120, admitted to Chem Eng program.	3.0- 3.0	76002	LEC	1A	MWF	08:00 - 08:50 am	BERTELS	00112B	Smith,J
			LEC	1A	MWF	08:00 - 08:50 am	BERTELS	00112A	
3140 Continuous Mass Transfer Prerequisites: Preceded or accompanied by Chem Eng 3130. Chem Eng majors only.	3.0- 3.0	76003	LEC	1A	MWF	11:00 - 11:50 am	BERTELS	00112A	Luks,C
			LEC	1A	MWF	11:00 - 11:50 am	BERTELS	00112B	
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	76401	LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00112A	Barua,S
			LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00112B	
4000 Special Problems Prerequisite: Preceded or accompanied by Chem 4 or an equivalent training program approved by S&T. Consent of instructor required.	0.0- 6.0	74691	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	74692	IND	6B	ARR	ARR	ARR		Barua,D
	0.0- 6.0	75721	IND	6C	ARR	ARR	ARR		Barua,S
	0.0- 6.0	76451	IND	6D	ARR	ARR	ARR		Forciniti,D
	0.0- 6.0	74693	IND	6E	ARR	ARR	ARR		Liang,X
	0.0- 6.0	74694	IND	6G	ARR	ARR	ARR		Ludlow,D
	0.0- 6.0	74695	IND	6H	ARR	ARR	ARR		Luks,C
	0.0- 6.0	74696	IND	6J	ARR	ARR	ARR		Neogi,P
	0.0- 6.0	76075	IND	6K	ARR	ARR	ARR		Park,J
	0.0- 6.0	76188	IND	6L	ARR	ARR	ARR		Rezaei,F
	0.0- 6.0	76363	IND	6M	ARR	ARR	ARR		Rownaghi,A
	0.0- 6.0	76829	IND	6P	ARR	ARR	ARR		Smith,J
	0.0- 6.0	76985	IND	6Q	ARR	ARR	ARR		Wang,J
0.0- 6.0	76986	IND	6R	ARR	ARR	ARR		Westenberg,D	
4001 Special Topics Prerequisites: Senior standing and a minimum of two semesters of Spanish.	3.0- 3.0	78275	LEC	1A	MWF	02:00 - 02:50 pm	BCH	00215	Forciniti,D
4096 Chemical Engineering Economics Prerequisite: Preceded or accompanied by Chem Eng 3130.	2.0- 2.0	76291	LEC	1A	TTh	12:00 - 12:50 pm	BERTELS	00112B	Ryan,P
			LEC	1A	TTh	12:00 - 12:50 pm	BERTELS	00112A	
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	F	03:00 - 03:50 pm	BERTELS	00112A	Ryan,P
			Communication Emphasized						
			LEC	1A	F	03:00 - 03:50 pm	BERTELS	00112B	
			Communication Emphasized						
4099 Undergraduate Research	3.0- 3.0	76559	LAB	3A	MW	03:00 - 05:50 pm	BERTELS	00112A	
			Communication Emphasized						
			LAB	3A	MW	03:00 - 05:50 pm	BERTELS	00112B	
		Communication Emphasized							
	0.0- 6.0	74698	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	75722	IND	6B	ARR	ARR	ARR		Barua,D
	0.0- 6.0	75723	IND	6C	ARR	ARR	ARR		Barua,S

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	75695	IND	6D	ARR	ARR	ARR		Forciniti,D
	0.0- 6.0	74699	IND	6E	ARR	ARR	ARR		Liang,X
	0.0- 6.0	75862	IND	6G	ARR	ARR	ARR		Ludlow,D
	0.0- 6.0	75863	IND	6H	ARR	ARR	ARR		Luks,C
	0.0- 6.0	75870	IND	6J	ARR	ARR	ARR		Neogi,P
	0.0- 6.0	76076	IND	6K	ARR	ARR	ARR		Park,J
	0.0- 6.0	76364	IND	6L	ARR	ARR	ARR		Rezaei,F
	0.0- 6.0	76482	IND	6M	ARR	ARR	ARR		Rownaghi,A
	0.0- 6.0	76830	IND	6P	ARR	ARR	ARR		Smith,J
	0.0- 6.0	76987	IND	6Q	ARR	ARR	ARR		Wang,J
	0.0- 6.0	76988	IND	6R	ARR	ARR	ARR		Westenberg,D
4100 Chemical Engineering Laboratory I Prerequisites: Chem Eng 3100 and Chem Eng 3110.	2.0- 2.0		LEC	1A	T	08:00 - 08:50 am	TMH	00251	Rownaghi,A
									Available lab blocks are 9:00-11:50am and 2:00-4:50pm each Tuesday and Thursday. Students will use one lab block each week but are advised to keep all block times open.
									See 'Notes' for Class Schedule
	2.0- 2.0	76290	LAB	3A	T	09:00 - 11:50 am	Ctl Lab	124	Rownaghi,A
									See 'Notes' for Class Schedule
	2.0- 2.0	77283	LAB	3B	T	02:00 - 04:50 pm	Ctl Lab	124	Rownaghi,A
	2.0- 2.0	77284	LAB	3C	Th	09:00 - 11:50 am	Ctl Lab	124	Rownaghi,A
	2.0- 2.0	77285	LAB	3D	Th	02:00 - 04:50 pm	Ctl Lab	124	Rownaghi,A
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	74690	LEC	1A	MWF	09:00 - 09:50 am	EMGT	00103	Barua,D
4120 Process Dynamics And Control Laboratory	1.0- 1.0	77101	LAB	3B	T	09:00 - 11:50 am	Lab	00124	Ryan,P
	1.0- 1.0	77102	LAB	3C	T	02:00 - 04:50 pm	Lab	00124	Ryan,P
	1.0- 1.0	77103	LAB	3D	Th	09:00 - 11:50 am	Lab	00124	Ryan,P
	1.0- 1.0	77104	LAB	3E	Th	02:00 - 04:50 pm	Lab	00124	Ryan,P
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	Th	08:00 - 08:50 am	CH	00105	Rownaghi,A
									Available lab blocks are 9:00-11:50am and 2:00-4:50pm each Tuesday and Thursday. Students will use two lab blocks each week but are advised to keep all block times open.
									See 'Notes' for Class Schedule
									Communication Emphasized
	3.0- 3.0	74688	LAB	3A	TTh	09:00 - 11:50 am	Lab	00124	Rownaghi,A
									See 'Notes' for Class Schedule
									Communication Emphasized
	3.0- 3.0	77556	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	77138	LEC	1A	MWF	08:00 - 08:50 am	EMGT	00103	Ludlow,D
4150 Chemical Process Flowsheeting Prerequisite: Math 3304 or graduate standing.	3.0- 3.0		LEC	1A					CANCELLED
	3.0- 3.0	76481	LAB	3A					CANCELLED
4200 Biochemical Separations Laboratory Prerequisite: Chem Eng 3200.	2.0- 2.0	74689	LAB	3A	Th	09:00 - 11:50 am	Lab	00116	Forciniti,D
			LAB	3A	Th	02:00 - 04:50 pm	Lab	00116	
5000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	74700	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	74701	IND	6B	ARR	ARR	ARR		Barua,D
	0.0- 6.0	76077	IND	6C	ARR	ARR	ARR		Barua,S
	0.0- 6.0	76450	IND	6D	ARR	ARR	ARR		Forciniti,D
	0.0- 6.0	76189	IND	6E	ARR	ARR	ARR		Liang,X
	0.0- 6.0	76190	IND	6G	ARR	ARR	ARR		Ludlow,D
	0.0- 6.0	76191	IND	6H	ARR	ARR	ARR		Luks,C
	0.0- 6.0	76192	IND	6J	ARR	ARR	ARR		Neogi,P
	0.0- 6.0	76193	IND	6K	ARR	ARR	ARR		Park,J
	0.0- 6.0	76194	IND	6L	ARR	ARR	ARR		Rezaei,F
	0.0- 6.0	76365	IND	6M	ARR	ARR	ARR		Rownaghi,A

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5001 Special Topics Prerequisites: Chem 1320; Math 1215 or Math 1221; preceded or accompanied by Physics 1135.	0.0- 6.0	76831	IND	6P	ARR	ARR	ARR		Smith,J
	0.0- 6.0	76989	IND	6Q	ARR	ARR	ARR		Wang,J
	0.0- 6.0	76990	IND	6R	ARR	ARR	ARR		Westenberg,D
	3.0- 3.0	78197	LEC	1A	MWF	04:00 - 04:50 pm	EMGT	00106	Barua,S
Intro to Pharmaceutical Engine									
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	74708	IND	6A	ARR	ARR	ARR		Al Dahhan,M
5100 Intermediate Transport Phenomena Prerequisite: Chem Eng 3140 or Chem Eng 3200 or graduate standing.	3.0- 3.0	74697	LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00B12A	Neogi,P
5140 Intermediate Chemical Process Safety Prerequisite: Graduate Standing.	3.0- 3.0	77656	LEC	1A	MWF	08:00 - 08:50 am	EMGT	00103	Ludlow,D
5150 Intermediate Chemical Process Flowsheeting	3.0- 3.0		LEC	1A	CANCELLED				
5200 Biomaterials I Prerequisite: Senior undergraduate standing. (Co-listed with Bio Sci 5210, MS&E 5310)	3.0- 3.0	77131	LAB	3A	CANCELLED				
6001 Special Topics Prerequisites: Graduate Standing.	3.0- 3.0	78198	LEC	1A	MWF	04:00 - 04:50 pm	EMGT	00106	Barua,S
Adv Pharmaceutical Engineering									
6015 Lecture Series Prerequisites: Graduate standing.	1.0- 1.0	77282	LEC	1A	M	03:00 - 03:50 pm	BERTELS	00B12B	
6050 Continuous Registration	1.0- 1.0	74709	IND	6B	ARR	ARR	ARR		Al Dahhan,M
6085 Internship	0.0-15.0	74707	IND	6A	ARR	ARR	ARR		Al Dahhan,M
6099 Research	0.0-15.0	74703	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0-15.0	75714	IND	6B	ARR	ARR	ARR		Barua,D
	0.0-15.0	75713	IND	6C	ARR	ARR	ARR		Barua,S
	0.0-15.0	76449	IND	6D	ARR	ARR	ARR		Forciniti,D
	0.0-15.0	74704	IND	6E	ARR	ARR	ARR		Liang,X
	0.0-15.0	74705	IND	6G	ARR	ARR	ARR		Ludlow,D
	0.0-15.0	74706	IND	6H	ARR	ARR	ARR		Luks,C
	0.0-15.0	75864	IND	6J	ARR	ARR	ARR		Neogi,P
	0.0-15.0	75865	IND	6K	ARR	ARR	ARR		Park,J
	0.0-15.0	75866	IND	6L	ARR	ARR	ARR		Rezaei,F
	0.0-15.0	76078	IND	6M	ARR	ARR	ARR		Rownaghi,A
	0.0-15.0	76832	IND	6P	ARR	ARR	ARR		Smith,J
	0.0-15.0	76991	IND	6Q	ARR	ARR	ARR		Wang,J
	0.0-15.0	76992	IND	6R	ARR	ARR	ARR		Westenberg,D
6100 Advanced Chemical Engineering Thermodynamics	3.0- 3.0	74702	LEC	1A	MWF	01:00 - 01:50 pm	BERTELS	00B12A	Wang,J
6300 Biomaterials II Prerequisite: Graduate Standing. (Co-listed with BIO SCI 6210, MS&E 6310)	3.0- 3.0	76597	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00256	Jung,S

Chemistry

1000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	74746	IND	6A	ARR	ARR	ARR		Whitefield,P
1100 Introduction To Laboratory Safety & Hazardous Materials	1.0- 1.0	74742	LEC	1A	MTWThF	05:00 - 05:50 pm	CASTL	LEACH	Whitefield,P Roark,S
	1.0- 1.0	74743	LEC	1B	MTWThF	12:00 - 12:50 pm	SHNK	000G3	Whitefield,P

CATALOG #	COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
		1.0- 1.0	74744	LEC	1C	ARR	ARR	ARR		Whitefield,P
				SECTION C WILL MEET AUG 14 - 18. MONDAY AUG 14, 12:30-3:30 P.M. TUESDAY THROUGH FRIDAY 8:30-10:30 A.M. AND 1:30-3:30 P.M., IN LEACH THEATER OF CASTLEMAN HALL. THIS IS THE WEEK PRIOR TO THE BEGINNING OF CLASSES.						
				See 'Notes' for Class Schedule						
1110	Introduction To Chemistry	1.0- 1.0	74745	LEC	1A	Th	11:00 - 11:50 am	SHNK	00305	Woelk,K
1310	General Chemistry I	4.0- 4.0	74710	LEC	1AA	MW	09:00 - 09:50 am	SHNK	000G3	Winiarz,J
	Prerequisite: Entrance requirements.			Orientation meeting will be held 9:00 am on Aug. 24th.						
		4.0- 4.0	74717	LEC	1BB	MW	10:00 - 10:50 am	SHNK	000G3	Winiarz,J
				Orientation meeting will be held 10:00 am on Aug. 24th.						
		4.0- 4.0	74724	LEC	1CC	MW	09:00 - 09:50 am	ARR		Winiarz,J
				Lecture mode is on-line synchronous. Orientation meeting to be held at 9:00 am on Aug. 24th.						
		4.0- 4.0	74726	LEC	1DD	MW	10:00 - 10:50 am	ARR		Winiarz,J
				Lecture mode is on-line synchronous. Orientation meeting to be held at 10:00 am on Aug. 24th.						
		0.0- 0.0	74711	RSD	2E1	T	08:00 - 09:50 am	IDE	00202	Winiarz,J
		0.0- 0.0	74712	RSD	2E2	T	10:00 - 11:50 am	IDE	00202	Winiarz,J
		0.0- 0.0	74713	RSD	2E3	T	12:00 - 01:50 pm	IDE	00202	Winiarz,J
		0.0- 0.0	74714	RSD	2E4	T	02:00 - 03:50 pm	IDE	00202	Winiarz,J
		0.0- 0.0	74715	RSD	2F1	T	09:00 - 10:50 am	IDE	00206	Winiarz,J
		0.0- 0.0	74716	RSD	2F2	T	11:00 - 12:50 pm	IDE	00206	Winiarz,J
		0.0- 0.0	75890	RSD	2F3	T	01:00 - 02:50 pm	IDE	00206	Winiarz,J
		0.0- 0.0	75964	RSD	2F4	T	03:00 - 04:50 pm	IDE	00206	Winiarz,J
		0.0- 0.0	74718	RSD	2G1	Th	08:00 - 09:50 am	IDE	00202	Winiarz,J
		0.0- 0.0	74719	RSD	2G2	Th	10:00 - 11:50 am	IDE	00202	Winiarz,J
		0.0- 0.0	74720	RSD	2G3	Th	12:00 - 01:50 pm	IDE	00202	Winiarz,J
		0.0- 0.0	74721	RSD	2G4	Th	02:00 - 03:50 pm	IDE	00202	Winiarz,J
		0.0- 0.0	74722	RSD	2H1	Th	09:00 - 10:50 am	IDE	00206	Winiarz,J
		0.0- 0.0	74723	RSD	2H2	Th	11:00 - 12:50 pm	IDE	00206	Winiarz,J
		0.0- 0.0	75891	RSD	2H3	Th	01:00 - 02:50 pm	IDE	00206	Winiarz,J
		0.0- 0.0	75962	RSD	2H4	Th	03:00 - 04:50 pm	IDE	00206	Winiarz,J
		0.0- 0.0	74725	RSD	2J1	ARR	ARR	ARR		Winiarz,J
				Course module is on-line asynchronous.						
1319	General Chemistry Laboratory	1.0- 1.0	74727	LAB	3A1	T	08:00 - 10:50 am	SHNK	00201	
	Prerequisite: Preceded or accompanied by both Chem 1310 and Chem 1100.			Chem Majors Only						
		1.0- 1.0	74728	LAB	3A2	T	08:00 - 10:50 am	SHNK	00212	
				Chem Majors Only						
		1.0- 1.0	74729	LAB	3B1	T	08:00 - 10:50 am	SHNK	00201	
		1.0- 1.0	74730	LAB	3B2	T	08:00 - 10:50 am	SHNK	00212	
		1.0- 1.0	74731	LAB	3C1	T	01:00 - 03:50 pm	SHNK	00201	
		1.0- 1.0	74732	LAB	3C2	T	01:00 - 03:50 pm	SHNK	00212	
		1.0- 1.0	74733	LAB	3D1	T	01:00 - 03:50 pm	SHNK	00201	
		1.0- 1.0	74734	LAB	3D2	T	01:00 - 03:50 pm	SHNK	00212	
		1.0- 1.0	74735	LAB	3E1	T	06:00 - 08:50 pm	SHNK	00201	
		1.0- 1.0	74736	LAB	3E2	T	06:00 - 08:50 pm	SHNK	00212	
		1.0- 1.0	76094	LAB	3F1	T	06:00 - 08:50 pm	SHNK	00201	
		1.0- 1.0	76095	LAB	3F2	T	06:00 - 08:50 pm	SHNK	00212	
		1.0- 1.0	74737	LAB	3G1	Th	08:00 - 10:50 am	SHNK	00201	
		1.0- 1.0	74738	LAB	3G2	Th	08:00 - 10:50 am	SHNK	00212	
		1.0- 1.0	74739	LAB	3H1	Th	08:00 - 10:50 am	SHNK	00201	
		1.0- 1.0	74740	LAB	3H2	Th	08:00 - 10:50 am	SHNK	00212	
		1.0- 1.0	76787	LAB	3J1	Th	01:00 - 03:50 pm	SHNK	00201	Mochalin,V
		1.0- 1.0	76788	LAB	3J2	Th	01:00 - 03:50 pm	SHNK	00212	
		1.0- 1.0	76920	LAB	3K1	Th	01:00 - 03:50 pm	SHNK	00201	
		1.0- 1.0	76921	LAB	3K2	Th	01:00 - 03:50 pm	SHNK	00212	
		1.0- 1.0	76958	LAB	3L1	Th	06:00 - 08:50 pm	SHNK	00201	
		1.0- 1.0	76959	LAB	3L2	Th	06:00 - 08:50 pm	SHNK	00212	
		1.0- 1.0	76960	LAB	3M1	Th	06:00 - 08:50 pm	SHNK	00201	
		1.0- 1.0	76961	LAB	3M2	Th	06:00 - 08:50 pm	SHNK	00212	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
1320 General Chemistry II Prerequisites: Chem 1310 with a grade of "C" or better and Chem 1319.	3.0- 3.0	74741	LEC	1A	TTh	08:00 - 09:15 am	SHNK	000G3	Stavropoulos,P
2002 Cooperative Work Training	1.0- 3.0	76459	IND	6A	ARR	ARR	ARR		Whitefield,P
2100 Master Student	1.0- 1.0	74747	LEC	1A	W	06:00 - 07:00 pm	H-SS	000G5	Collier,H
2210 Organic Chemistry I Prerequisites: Chem 1310, 1319, 1320; or Chem 1351.	4.0- 4.0	74748	LEC	1A	TTh	09:30 - 10:45 am	SHNK	000G3	Sotiriou-Leventis,C
2219 Organic Chemistry I Lab Prerequisites: Preceded or accompanied by Chem 2210 and Chem 1100.	1.0- 1.0	74749	LAB	3A	M	01:00 - 01:50 pm	SHNK	00305	
			Chem Majors Only						
			LAB	3A	M	02:00 - 03:50 pm	SHNK	00303	Bone,T
			Chem Majors Only						
	1.0- 1.0	75777	LAB	3B	T	02:00 - 02:50 pm	SHNK	00305	Bone,T
			LAB	3B	T	03:00 - 04:50 pm	SHNK	00303	
	1.0- 1.0	74750	LAB	3C	Th	02:00 - 02:50 pm	SHNK	00305	
			LAB	3C	Th	03:00 - 04:50 pm	SHNK	00303	Bone,T
	1.0- 1.0	77900	LAB	3D	F	02:00 - 02:50 pm	SHNK	00305	Bone,T
			LAB	3D	F	03:00 - 04:50 pm	SHNK	00303	
	1.0- 1.0	78286	LAB	3E	M	06:00 - 06:50 pm	SHNK	00305	Bone,T
			LAB	3E	M	07:00 - 08:50 pm	SHNK	00303	
	1.0- 1.0	78294	LAB	3F	T	06:00 - 06:50 pm	SHNK	00305	Bone,T
			LAB	3F	T	07:00 - 08:50 pm	SHNK	00303	
2220 Organic Chemistry II Prerequisites: Grade of "C" or better in Chem 2210.	4.0- 4.0	75999	LEC	1A	TTh	08:00 - 09:15 am	H-SS	000G5	Reddy,V
			LEC	1A	W	01:00 - 01:50 pm	BERTELS	00B10	
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	76402	LAB	3A	W	02:00 - 02:50 pm	SHNK	00305	Bone,T
			Communication Emphasized						
			LAB	3A	W	03:00 - 04:50 pm	SHNK	00303	
			Communication Emphasized						
	1.0- 1.0	77614	LAB	3B	W	06:00 - 06:50 pm	SHNK	00305	Bone,T
			Communication Emphasized						
			LAB	3B	W	07:00 - 08:50 pm	SHNK	00303	
			Communication Emphasized						
	1.0- 1.0	78287	LAB	3C	Th	06:00 - 06:50 pm	SHNK	00305	Bone,T
			Communication Emphasized						
			LAB	3C	Th	07:00 - 08:50 pm	SHNK	00303	
			Communication Emphasized						
2310 Inorganic Chemistry I	3.0- 3.0	77159	LEC	1A	MWF	08:00 - 08:50 am	SHNK	00305	Nath,M
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	MCNT	00114	Nam,P
	4.0- 4.0	75907	LAB	3A	T	02:00 - 02:50 pm	EMGT	00104	Nam,P
			LAB	3A	T	03:00 - 04:50 pm	SHNK	00307	
	4.0- 4.0	76014	LAB	3B	Th	02:00 - 02:50 pm	EMGT	00104	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	74751	LEC	1A	MWF	08:00 - 08:50 am	SHNK	000G3	Woelk,K
3419 Physical Chemistry Laboratory I Prerequisites: Preceded or accompanied by both Chem 3410 and Chem 1100.	1.0- 1.0	76494	LAB	3A	W	01:00 - 01:50 pm	SHNK	00305	Grubbs,G
			LAB	3A	W	02:00 - 03:50 pm	SHNK	00125	
3430 Chemical Kinetics I Prerequisite: Chem 3410.	3.0- 3.0	74752	LEC	1A	MWF	09:00 - 09:50 am	TMH	00249	Dawes,R
3459 Accelerated Physical Chemistry Laboratory Prerequisites: Preceded or accompanied by both Chem 3420 and Chem 1100.	2.0- 2.0	76922	LAB	3A	W	01:00 - 01:50 pm	SHNK	00305	Grubbs,G
			LAB	3A	W	02:00 - 05:50 pm	SHNK	00307	
3510 Analytical Chemistry II Prerequisites: Chem 1100, Chem 2510, Chem 2220 and Chem 3410.	4.0- 4.0		LEC	1A	MWF	10:00 - 10:50 am	SHNK	00305	Kapila,S
	4.0- 4.0	74754	LAB	3A	M	01:00 - 03:50 pm	SHNK	00241	Kapila,S
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	74755	IND	6A	ARR	ARR	ARR		Ercal,N
	0.0- 6.0	77310	IND	6B	ARR	ARR	ARR		Winiarz,J
	0.0- 6.0	77353	IND	6C	ARR	ARR	ARR		Woelk,K
	0.0- 6.0	77591	IND	6D	ARR	ARR	ARR		Nath,M
4010 Undergraduate Seminar	1.0- 1.0	74756	RSD	2A	ARR	ARR	ARR		Ercal,N
	1.0- 1.0	74757	RSD	2B	ARR	ARR	ARR		Long,G

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	1.0- 1.0	74758	RSD	2C	ARR	ARR	ARR		Ma,Y
	1.0- 1.0	77129	RSD	2D	ARR	ARR	ARR		Schuman,T
4099 Undergraduate Research	0.0- 6.0	74762	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	76092	IND	6B	ARR	ARR	ARR		Dawes,R
	0.0- 6.0	74763	IND	6C	ARR	ARR	ARR		Ercal,N
	0.0- 6.0	74764	IND	6D	ARR	ARR	ARR		Grubbs,G
	0.0- 6.0	74765	IND	6F	ARR	ARR	ARR		Kapila,S
	0.0- 6.0	74766	IND	6G	ARR	ARR	ARR		Leventis,N
	0.0- 6.0	74767	IND	6H	ARR	ARR	ARR		Long,G
	0.0- 6.0	74768	IND	6J	ARR	ARR	ARR		Ma,Y
	0.0- 6.0	75794	IND	6K	ARR	ARR	ARR		Mochalin,V
	0.0- 6.0	76093	IND	6L	ARR	ARR	ARR		Nam,P
	0.0- 6.0	74769	IND	6M	ARR	ARR	ARR		Nath,M
	0.0- 6.0	74770	IND	6N	ARR	ARR	ARR		Reddy,V
	0.0- 6.0	74771	IND	6P	ARR	ARR	ARR		Schuman,T
	0.0- 6.0	74772	IND	6Q	ARR	ARR	ARR		Shi,H
	0.0- 6.0	74773	IND	6R	ARR	ARR	ARR		Sotiriou-Leventis,C
	0.0- 6.0	74774	IND	6T	ARR	ARR	ARR		Stavropoulos,P
	0.0- 6.0	75677	IND	6U	ARR	ARR	ARR		Switzer,J
	0.0- 6.0	75795	IND	6V	ARR	ARR	ARR		Van De Mark,M
	0.0- 6.0	74775	IND	6W	ARR	ARR	ARR		Wang,R
	0.0- 6.0	76663	IND	6X	ARR	ARR	ARR		Whitefield,P
	0.0- 6.0	76923	IND	6Y	ARR	ARR	ARR		Winiarz,J
	0.0- 6.0	77160	IND	6Z	ARR	ARR	ARR		Woelk,K
4210 Intermediate Organic Chemistry I	3.0- 3.0	74759	LEC	1A	MWF	11:00 - 11:50 am	SHNK	00305	Leventis,N
Prerequisite: Chem 2220.									
4310 Selected Topics In Inorganic Chemistry	3.0- 3.0	77161	LEC	1A	TTh	12:30 - 01:45 pm	SHNK	00305	Long,G
4610 General Biochemistry	3.0- 3.0	74760	LEC	1A	TTh	11:00 - 12:15 pm	BERTELS	00B12A	Ercal,N
Prerequisite: Chem 2220.									
4619 General Biochemistry Laboratory	2.0- 2.0	75888	LAB	3A	TTh	02:00 - 04:50 pm	SHNK	00313	Wang,R
Prerequisites: Preceded or accompanied by both Chem 4610 and Chem 1100.									
4630 Introduction to Bio-Nanotechnology	3.0- 3.0	77286	LEC	1A	MW	11:00 - 12:15 pm	NOR	00208	Wang,R
Prerequisite: At least junior standing.									
4710 Principles Of Environmental Monitoring	3.0- 3.0	78173	LEC	1A	MWF	09:00 - 09:50 am	SHNK	00305	Whitefield,P
Prerequisites: Chem 2210; Physics 1111 or Physics 1135.									
4810 Chemistry And Inherent Properties Of Polymers	3.0- 3.0	74761	LEC	1A	MWF	12:00 - 12:50 pm	SHNK	00305	Schuman,T
Prerequisite: Chem 1320 or Met Eng 1210. (Co-listed with MS&E 4810)									
4819 Polymer Science Laboratory	1.0- 1.0	78296	LAB	3A	T	10:00 - 10:50 am	CH	00103	Schuman,T
Prerequisite: Chem 4810 or MS&E 4810 and preceded or accompanied by Chem 1100. (Co-listed with MS&E 4819)			LAB	3A	T	11:00 - 01:50 pm	SHNK	00303	
5099 Master Research	0.0- 6.0	76702	IND	6A	ARR	ARR	ARR		Choudhury,A
Prerequisite: Must meet departmental training requirements for laboratory safety. Consent of instructor required.	0.0- 6.0	76703	IND	6B	ARR	ARR	ARR		Dawes,R
	0.0- 6.0	76704	IND	6C	ARR	ARR	ARR		Ercal,N
	0.0- 6.0	76705	IND	6D	ARR	ARR	ARR		Grubbs,G
	0.0- 6.0	76706	IND	6E	ARR	ARR	ARR		Kapila,S
	0.0- 6.0	76707	IND	6F	ARR	ARR	ARR		Leventis,N
	0.0- 6.0	76708	IND	6G	ARR	ARR	ARR		Long,G
	0.0- 6.0	76709	IND	6H	ARR	ARR	ARR		Ma,Y
	0.0- 6.0	76710	IND	6J	ARR	ARR	ARR		Mochalin,V
	0.0- 6.0	76711	IND	6K	ARR	ARR	ARR		Nam,P
	0.0- 6.0	76712	IND	6L	ARR	ARR	ARR		Nath,M
	0.0- 6.0	76713	IND	6M	ARR	ARR	ARR		Reddy,V
	0.0- 6.0	76714	IND	6N	ARR	ARR	ARR		Schuman,T
	0.0- 6.0	76715	IND	6P	ARR	ARR	ARR		Shi,H
	0.0- 6.0	76716	IND	6Q	ARR	ARR	ARR		Sotiriou-Leventis,C
	0.0- 6.0	76717	IND	6R	ARR	ARR	ARR		Stavropoulos,P
	0.0- 6.0	76718	IND	6T	ARR	ARR	ARR		Switzer,J
	0.0- 6.0	76719	IND	6U	ARR	ARR	ARR		Van De Mark,M
	0.0- 6.0	76720	IND	6V	ARR	ARR	ARR		Wang,R
	0.0- 6.0	76721	IND	6W	ARR	ARR	ARR		Whitefield,P
	0.0- 6.0	76924	IND	6X	ARR	ARR	ARR		Winiarz,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5100 Laboratory Safety & Hazardous Materials Prerequisites: Graduate standing.	0.0- 6.0 1.0- 1.0	77163 77099	IND LEC	6Y 1A	ARR MTWThF	ARR 12:00 - 12:50 pm	ARR SHNK		000G3 Whitefield,P
5210 Fundamentals of Organic Reactions Prerequisite: Chem 2220.	3.0- 3.0	76697	LEC	1A	MWF	11:00 - 11:50 am	SHNK	00305	Leventis,N
5310 Introduction to Inorganic Chemistry	3.0- 3.0	77162	LEC	1A	TTh	12:30 - 01:45 pm	SHNK	00305	Long,G
5610 Biochemistry Prerequisite: Chem 2220	3.0- 3.0	76699	LEC	1A	TTh	11:00 - 12:15 pm	BERTELS	00B12A	Ercal,N
5619 Biochemistry Laboratory Prerequisites: Preceded or accompanied by Chem 5610 and Chem 1100 or an equivalent training program approved by S&T.	2.0- 2.0	76700	LAB	3A	TTh	02:00 - 04:50 pm	SHNK	00313	Wang,R
5630 Biochemical Nanotechnology Prerequisite: At least junior standing.	3.0- 3.0	77287	LEC	1A	MW	11:00 - 12:15 pm	NOR	00208	Wang,R
5710 Environmental Monitoring Prerequisites: Chem 2210, Physics 2111.	3.0- 3.0	78174	LEC	1A	MWF	09:00 - 09:50 am	SHNK	00305	Whitefield,P
5810 Introduction to Polymeric Materials Prerequisite: Chem 1320 or Met Eng 1210. (Co-listed with MS&E 5810)	3.0- 3.0	76701	LEC	1A	MWF	12:00 - 12:50 pm	SHNK	00305	Schuman,T
6000 Special Problems Prerequisite: Preceded or accompanied by Chem 4 or an equivalent training program approved by S&T. Consent of instructor required.	0.0- 6.0	74776	IND	6A	ARR	ARR	ARR		Ercal,N
6001 Special Topics Prerequisites: Chem 4610.	3.0- 3.0	77926	LEC	1A	TTh	12:30 - 01:45 pm	CSF	00G5D	Ercal,N
									Neurochemistry
	3.0- 3.0	77927	LEC	1B	CANCELLED				
6010 Seminar	1.0- 1.0	74777	RSD	2A	M	04:00 - 06:00 pm	SHNK	000G3	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	74796	IND	6A	ARR	ARR	ARR		Whitefield,P
6050 Continuous Registration Doctoral students only. Graduate office permission required.	1.0- 1.0	74797	IND	6A	ARR	ARR	ARR		Whitefield,P
6099 Research	0.0-15.0	74778	IND	6A	ARR	ARR	ARR		Choudhury,A
	0.0-15.0	74779	IND	6B	ARR	ARR	ARR		Collier,H
	0.0-15.0	74780	IND	6C	ARR	ARR	ARR		Dawes,R
	0.0-15.0	74781	IND	6D	ARR	ARR	ARR		Ercal,N
	0.0-15.0	74782	IND	6E	ARR	ARR	ARR		Grubbs,G
	0.0-15.0	74783	IND	6F	ARR	ARR	ARR		Kapila,S
	0.0-15.0	74784	IND	6G	ARR	ARR	ARR		Leventis,N
	0.0-15.0	74785	IND	6H	ARR	ARR	ARR		Long,G
	0.0-15.0	74786	IND	6J	ARR	ARR	ARR		Ma,Y
	0.0-15.0	74787	IND	6K	ARR	ARR	ARR		Mochalin,V
	0.0-15.0	76054	IND	6L	ARR	ARR	ARR		Nam,P
	0.0-15.0	74788	IND	6M	ARR	ARR	ARR		Nath,M
	0.0-15.0	74789	IND	6N	ARR	ARR	ARR		Reddy,V
	0.0-15.0	74790	IND	6P	ARR	ARR	ARR		Schuman,T
	0.0-15.0	74791	IND	6Q	ARR	ARR	ARR		Shi,H
	0.0-15.0	74792	IND	6R	ARR	ARR	ARR		Sotiriou-Leventis,C
	0.0-15.0	74793	IND	6T	ARR	ARR	ARR		Stavropoulos,P
	0.0-15.0	74794	IND	6U	ARR	ARR	ARR		Switzer,J
	0.0-15.0	75984	IND	6V	ARR	ARR	ARR		Van De Mark,M
	0.0-15.0	74795	IND	6W	ARR	ARR	ARR		Wang,R
	0.0-15.0	76403	IND	6X	ARR	ARR	ARR		Whitefield,P
	0.0-15.0	76404	IND	6Y	ARR	ARR	ARR		Winiarz,J
	0.0-15.0	77164	IND	6Z	ARR	ARR	ARR		Woelk,K
6101 Introduction to Chemistry Research Prerequisite: Graduate Student Status.	1.0- 1.0	76021	LEC	1A	M	02:00 - 02:50 pm	SHNK	00305	Whitefield,P
6250 Spectrometric Identification of Organic Compounds Prerequisite: Chem 2220.	3.0- 3.0	78180	LEC	1A	TTh	10:00 - 11:15 am	BCH	00215	Reddy,V

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6320 Solid State Chemistry Prerequisites: Chem 2310, Chem 2320, and Chem 3410.	3.0- 3.0	78295	LEC	1A	TTh	04:00 - 05:15 pm	SHNK	00305	Choudhury,A
6570 Electrochemistry Prerequisite: Chem 3430.	3.0- 3.0	78179	LEC	1A	TTh	11:00 - 12:15 pm	CH	00103	Switzer,J

Civil Engineering

2002 Cooperative Engineering Training	1.0- 3.0	74804	IND	6A	ARR	ARR	ARR		Burken,J
2003 Engineering Communications and Computations Prerequisite: Sophomore standing. (Co-listed with Arch Eng 2003).	3.0- 3.0	74803	LEC	1A	TTh	11:00 - 11:50 am	BCH	00120	Schonberg,W
	3.0- 3.0	74803	LAB	3A	T	02:00 - 03:50 pm	BCH	00115	Schonberg,W
	3.0- 3.0	75702	LAB	3B	Th	02:00 - 03:50 pm	BCH	00115	Schonberg,W
	3.0- 3.0	75892	LAB	3C	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.	3.0- 3.0	74602	LEC	1A	TTh	12:30 - 01:45 pm	IDE	00105	Koen,M
						Scheduled common evening exams are on Wednesdays, Sept. 12th, Oct. 10th, Nov. 7th, and Dec. 5th from 5:00-6:00pm.			
						See 'Notes' for Evening Exams			
			LEC	1A	ARR	ARR	ARR		
						Scheduled common evening exams are on Wednesdays, Sept. 12th, Oct. 10th, Nov. 7th, and Dec. 5th from 5:00-6:00pm.			
						See 'Notes' for Evening Exams			
	3.0- 3.0	74603	LEC	1B	MWF	09:00 - 09:50 am	BCH	00318	Abbott,D
						Scheduled common evening exams are on Wednesdays, Sept. 12th, Oct. 10th, Nov. 7th, and Dec. 5th from 5:00-6:00pm.			
						See 'Notes' for Evening Exams			
	3.0- 3.0	74604	LEC	1C	MWF	10:00 - 10:50 am	BCH	00318	Abbott,D
						Scheduled common evening exams are on Wednesdays, Sept. 12th, Oct. 10th, Nov. 7th, and Dec. 5th from 5:00-6:00pm.			
						See 'Notes' for Evening Exams			
	3.0- 3.0	74605	LEC	1D	MWF	11:00 - 11:50 am	BCH	00318	Abbott,D
						Scheduled common evening exams are on Wednesdays, Sept. 12th, Oct. 10th, Nov. 7th, and Dec. 5th from 5:00-6:00pm.			
						See 'Notes' for Evening Exams			
	3.0- 3.0	74606	LEC	1E	TTh	09:30 - 10:45 am	IDE	00105	Koen,M
						Scheduled common evening exams are on Wednesdays, Sept. 12th, Oct. 10th, Nov. 7th, and Dec. 5th from 5:00-6:00pm.			
						See 'Notes' for Evening Exams			
	3.0- 3.0	74607	LEC	1F	TTh	11:00 - 12:15 pm	IDE	00105	Koen,M
						Scheduled common evening exams are on Wednesdays, Sept. 12th, Oct. 10th, Nov. 7th, and Dec. 5th from 5:00-6:00pm.			
						See 'Notes' for Evening Exams			
			LEC	1F	ARR	ARR	ARR		
						Scheduled common evening exams are on Wednesdays, Sept. 12th, Oct. 10th, Nov. 7th, and Dec. 5th from 5:00-6:00pm.			
						See 'Notes' for Evening Exams			
	3.0- 3.0	77100	LEC	1J	MWF	10:00 - 10:50 am	BCH	00121	Koen,M
						Scheduled common evening exams are on Wednesdays, Sept. 12th, Oct. 10th, Nov. 7th, and Dec. 5th from 5:00-6:00pm.			
2210 Mechanics Of Materials Prerequisite: Civ Eng 2200 with grade of "C" or better.	3.0- 3.0	75974	LEC	1A	MWF	10:00 - 10:50 am	BCH	00120	Libre,N
						Evening exams will be held on Sept 10, Oct 8, Nov 5, and Dec 3rd.			
						See 'Notes' for Evening Exams			

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	3.0- 3.0	74608	LEC	1B	MWF	11:00 - 11:50 am	BCH	00120	Libre,N
									Evening exams will be held on Sept 10, Oct 8, Nov 5, and Dec 3rd.
									See 'Notes' for Evening Exams
	3.0- 3.0	75968	LEC	1C	TTh	09:30 - 10:45 am	BCH	00124	
									Evening exams will be held on Sept 10, Oct 8, Nov 5, and Dec 3rd.
									See 'Notes' for Evening Exams
	3.0- 3.0	76400	LEC	1D	TTh	11:00 - 12:15 pm	BCH	00124	
									Evening exams will be held on Sept 10, Oct 8, Nov 5, and Dec 3rd.
									See 'Notes' for Evening Exams
	3.0- 3.0	76640	LEC	1E	TTh	12:30 - 01:45 pm	BCH	00124	
									Evening exams will be held on Sept 10, Oct 8, Nov 5, and Dec 3rd.
									See 'Notes' for Evening Exams
2211	Materials Testing	1.0- 1.0	LAB	3A	M	01:00 - 01:50 pm	IDE	000G4A	
	Prerequisite: Preceded or accompanied by Civ Eng 2210.		LAB	3A	M	02:00 - 02:50 pm	IDE	000G6	Libre,N
		1.0- 1.0	LAB	3B	M	03:00 - 03:50 pm	IDE	000G4A	Libre,N
			LAB	3B	M	04:00 - 04:50 pm	IDE	000G6	
		1.0- 1.0	LAB	3C	M	05:00 - 05:50 pm	IDE	000G4A	Libre,N
			LAB	3C	M	06:00 - 06:50 pm	IDE	000G6	
		1.0- 1.0	LAB	3D	T	01:00 - 01:50 pm	IDE	000G4A	Libre,N
			LAB	3D	T	02:00 - 02:50 pm	IDE	000G6	
		1.0- 1.0	LAB	3E	T	03:00 - 03:50 pm	IDE	000G4A	Libre,N
			LAB	3E	T	04:00 - 04:50 pm	IDE	000G6	
		1.0- 1.0	LAB	3F	T	05:00 - 05:50 pm	IDE	000G4A	Libre,N
			LAB	3F	T	06:00 - 06:50 pm	IDE	000G6	
		1.0- 1.0	LAB	3G	W	01:00 - 01:50 pm	IDE	000G4A	Libre,N
			LAB	3G	W	02:00 - 02:50 pm	IDE	000G6	
		1.0- 1.0	LAB	3H	W	03:00 - 03:50 pm	IDE	000G4A	Libre,N
			LAB	3H	W	04:00 - 04:50 pm	IDE	000G6	
		1.0- 1.0	LAB	3J	Th	01:00 - 01:50 pm	IDE	000G4A	Libre,N
			LAB	3J	Th	02:00 - 02:50 pm	IDE	000G6	
		1.0- 1.0	LAB	3K	Th	03:00 - 03:50 pm	IDE	000G4A	Libre,N
			LAB	3K	Th	04:00 - 04:50 pm	IDE	000G6	
2401	Fundamentals Of Surveying	3.0- 3.0	LEC	1A	MW	08:00 - 08:50 am	BCH	00125	Elgin,R
	Prerequisite: Preceded or accompanied by Math 1214 (or 1208). Time for LEC 1A must be allowed with each lab section.	3.0- 3.0	LAB	3A	M	01:00 - 03:50 pm	BCH	00101	Elgin,R
		3.0- 3.0	LAB	3B	T	12:30 - 03:15 pm	BCH	00101	Elgin,R
		3.0- 3.0	LAB	3C	W	01:00 - 03:50 pm	BCH	00101	Elgin,R
		3.0- 3.0	LAB	3D	Th	01:00 - 03:50 pm	BCH	00316	Elgin,R
2601	Fundamentals Of Environmental Engineering And Science	3.0- 3.0	LEC	1A	MW	08:00 - 08:50 am	BCH	00209	
	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	1B	MW	11:00 - 11:50 am	BCH	00209	Wang,J
		3.0- 3.0	LAB	3A1	M	01:00 - 03:50 pm	BCH	00209	
		3.0- 3.0	LAB	3A2	T	01:00 - 03:50 pm	BCH	00209	
		3.0- 3.0	LAB	3B1	W	01:00 - 03:50 pm	BCH	00209	Wang,J
		3.0- 3.0	LAB	3B2	Th	01:00 - 03:50 pm	BCH	00209	Wang,J
3116	Construction Materials, Properties And Testing	3.0- 3.0	LEC	1A	MWF	08:00 - 08:50 am	BCH	00110	Feys,D
	Prerequisites: Civ Eng 2211 or Min Eng 3812; Civ Eng 3715 or both Geo Eng 1150 and Min Eng 3412.								Class will meet 3 lecture periods per week when labs do not meet.
									See 'Notes'-Additional Meeting
		3.0- 3.0	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
		0.0- 0.0	LAB	3A	T	01:00 - 04:30 pm	BCH	00110	Feys,D
		0.0- 0.0	LAB	3B	Th	01:00 - 04:30 pm	BCH	00110	Ma,H
3201	Structural Analysis I	3.0- 3.0	LEC	1A	TTh	09:30 - 10:20 am	BCH	00318	
		3.0- 3.0	LAB	3A	Th	01:00 - 03:50 pm	BCH	00216	
3210	Structural Design in Metals	3.0- 3.0	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00101	Yan,G
	Prerequisite: Civ Eng 3201 with a grade of "C" or better. (Co-listed with Arch Eng 3210)	3.0- 3.0	LAB	3A	F	01:00 - 03:50 pm	BCH	00121	Yan,G

CATALOG #	COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3220	Reinforced Concrete Design	3.0- 3.0		LEC	1A	MW	09:00 - 09:50 am	BCH	00315	Wu,C
	Prerequisite: Civ Eng 3201 with grade of "C" or better. (Co-listed with Arch Eng 3220)	3.0- 3.0		LEC	1B	MW	09:00 - 09:50 am	BCH	00110	Sneed,L
		3.0- 3.0	74815	LAB	3A	Th	05:00 - 06:50 pm	BCH	00101	Wu,C
		3.0- 3.0	78125	LAB	3B	Th	01:00 - 03:50 pm	BCH	00318	Sneed,L
3330	Engineering Fluid Mechanics	3.0- 3.0	74817	LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00B10	Mendoza,C
	Prerequisites: IDE 2350 or IDE 2340, and Math 3304, each with a grade of "C" or better.									
3334	Water Resources Engineering	4.0- 4.0		LEC	1A	MWF	11:00 - 11:50 am	BCH	00315	Holmes,R
	Prerequisites: Civ Eng 3330 and Stat 3113 with grades of "C" or better.	4.0- 4.0	74819	LAB	3A	F	01:00 - 03:50 pm	BCH	00315	Mohammed-Ali,W
		4.0- 4.0	76240	LAB	3B	M	01:00 - 03:50 pm	BCH	00121	Mohammed-Ali,W Coday,K
3500	Transportation Engineering	3.0- 3.0		LEC	1A	TTh	09:30 - 10:20 am	BCH	00315	Sneed,M
	Prerequisites: Civ Eng 2401 and Civ Eng 2003.	3.0- 3.0	74807	LAB	3A	W	01:00 - 03:00 pm	BCH	00115	Wang,S
		3.0- 3.0	75932	LAB	3B	W	03:00 - 05:00 pm	BCH	00115	Wang,S
3615	Water And Wastewater Engineering	3.0- 3.0	75921	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00209	Wang,J
	Prerequisites: Civ Eng 2601 and at least junior standing. (Co-listed with Env Eng 3615)									
3715	Fundamentals of Geotechnical Engineering	3.0- 3.0		LEC	1A	MWF	09:00 - 09:50 am	H-SS	000G5	Deng,W
	Prerequisite: Geo Eng 1150 or Arch Eng 2103; Civ Eng 2210; and preceded or accompanied by Civ Eng 3330.	3.0- 3.0	74809	LAB	3A	M	01:00 - 02:50 pm	CE	00114	Deng,W
		3.0- 3.0	77610	LAB	3B	M	03:00 - 04:50 pm	CE	00114	Deng,W
		3.0- 3.0	74810	LAB	3C	W	01:00 - 02:50 pm	CE	00114	Deng,W
		3.0- 3.0	74811	LAB	3D	W	03:00 - 04:50 pm	CE	00114	Deng,W
		3.0- 3.0	76259	LAB	3F	T	01:00 - 02:50 pm	CE	00114	Deng,W
3842	Fundamentals of Building Systems	3.0- 3.0	74820	LEC	1A	TTh	08:00 - 09:15 am	BCH	00121	Gillis,W
	Prerequisites: Physics 2135, Math 2222, and Junior Standing.									
4010	Senior Seminar: Engineering In A Global Society	1.0- 1.0	74805	RSD	2A	W	12:00 - 12:50 pm	BCH	00120	Burken,J
	Prerequisite: Senior standing. (Co-listed with Arch Eng and Env Eng 4010)									
4097	Senior Design Project	3.0- 3.0	74824	LEC	1A	M	01:00 - 03:50 pm	BCH	00122	Showalter,W
	Prerequisite: Civ Eng 4448 or Arch Eng 4448. (Co-listed with Arch Eng 4097 and Env Eng 4097)			LEC	1A	M	01:00 - 03:50 pm	BCH	00120	
				LEC	1A	M	01:00 - 03:50 pm	BCH	00123	
4099	Undergraduate Research	0.0- 6.0	76035	IND	6A	ARR	ARR	ARR		Abdelrahman,M
		0.0- 6.0	74841	IND	6B	ARR	ARR	ARR		Baur,S
		0.0- 6.0	75746	IND	6C	ARR	ARR	ARR		Burken,J
		0.0- 6.0	74842	IND	6D	ARR	ARR	ARR		Chen,G
		0.0- 6.0	74843	IND	6E	ARR	ARR	ARR		Deng,W
		0.0- 6.0	74844	IND	6F	ARR	ARR	ARR		ElGawady,M
		0.0- 6.0	74845	IND	6G	ARR	ARR	ARR		Elgin,R
		0.0- 6.0	76036	IND	6H	ARR	ARR	ARR		Feys,D
		0.0- 6.0	74846	IND	6J	ARR	ARR	ARR		Fitch,M
		0.0- 6.0	74847	IND	6K	ARR	ARR	ARR		Hu,X
		0.0- 6.0	74848	IND	6L	ARR	ARR	ARR		Khayat,K
		0.0- 6.0	74849	IND	6M	ARR	ARR	ARR		Libre,N
		0.0- 6.0	74850	IND	6N	ARR	ARR	ARR		Liu,X
		0.0- 6.0	74851	IND	6P	ARR	ARR	ARR		Ma,H
		0.0- 6.0	74852	IND	6Q	ARR	ARR	ARR		Mendoza,C
		0.0- 6.0	74853	IND	6R	ARR	ARR	ARR		Myers,J
		0.0- 6.0	74854	IND	6T	ARR	ARR	ARR		Oerther,D
		0.0- 6.0	76037	IND	6U	ARR	ARR	ARR		Richardson,D
		0.0- 6.0	76882	IND	6V	ARR	ARR	ARR		Schonberg,W
		0.0- 6.0	76883	IND	6W	ARR	ARR	ARR		Showalter,W
		0.0- 6.0	77407	IND	6X	ARR	ARR	ARR		Sneed,L
		0.0- 6.0	77629	IND	6Y	ARR	ARR	ARR		Wang,J
		0.0- 6.0	77968	IND	6Z	ARR	ARR	ARR		Wu,C
		0.0- 6.0	78135	IND	6AA	ARR	ARR	ARR		Yan,G
		0.0- 6.0	78136	IND	6BB	ARR	ARR	ARR		Zhang,X
4448	Fundamentals Of Contracts And Construction Engineering	3.0- 3.0	74821	LEC	1A	TTh	08:00 - 09:15 am	BCH	00213	Showalter,W
	Prerequisite: Senior Standing. (Co-listed with Arch Eng 4448)									
		3.0- 3.0	77471	LEC	1B	TTh	09:30 - 10:45 am	BCH	00101	Showalter,W

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4729 Foundation Engineering Prerequisite: Civ Eng 3715.	3.0- 3.0	74816	LEC	1A	TTh	09:30 - 10:45 am	BCH	00317	
5000 Special Problems	0.0- 6.0	76033	IND	6A	ARR	ARR	ARR		Abdelrahman,M
	0.0- 6.0	74825	IND	6B	ARR	ARR	ARR		Baur,S
	0.0- 6.0	74826	IND	6C	ARR	ARR	ARR		Burken,J
	0.0- 6.0	75745	IND	6D	ARR	ARR	ARR		Chen,G
	0.0- 6.0	74827	IND	6E	ARR	ARR	ARR		Deng,W
	0.0- 6.0	74828	IND	6F	ARR	ARR	ARR		ElGawady,M
	0.0- 6.0	74829	IND	6H	ARR	ARR	ARR		Feys,D
	0.0- 6.0	74830	IND	6J	ARR	ARR	ARR		Fitch,M
	0.0- 6.0	76034	IND	6K	ARR	ARR	ARR		Hu,X
	0.0- 6.0	74831	IND	6L	ARR	ARR	ARR		Khayat,K
	0.0- 6.0	74832	IND	6M	ARR	ARR	ARR		Libre,N
	0.0- 6.0	74833	IND	6N	ARR	ARR	ARR		Liu,X
	0.0- 6.0	74834	IND	6P	ARR	ARR	ARR		Ma,H
	0.0- 6.0	74835	IND	6Q	ARR	ARR	ARR		Mendoza,C
	0.0- 6.0	74836	IND	6R	ARR	ARR	ARR		Myers,J
	0.0- 6.0	74837	IND	6T	ARR	ARR	ARR		Oerther,D
	0.0- 6.0	74838	IND	6U	ARR	ARR	ARR		Richardson,D
	0.0- 6.0	74839	IND	6V	ARR	ARR	ARR		Schonberg,W
	0.0- 6.0	76884	IND	6W	ARR	ARR	ARR		Showalter,W
	0.0- 6.0	76885	IND	6X	ARR	ARR	ARR		Sneed,L
	0.0- 6.0	76886	IND	6Y	ARR	ARR	ARR		Wang,J
	0.0- 6.0	77969	IND	6Z	ARR	ARR	ARR		Wu,C
	0.0- 6.0	78137	IND	6AA	ARR	ARR	ARR		Yan,G
	0.0- 6.0	78138	IND	6BB	ARR	ARR	ARR		Zhang,X
5112 Bituminous Materials Prerequisite: Preceded or accompanied by Civ Eng 3116.	3.0- 3.0		LEC	1A	MW	09:00 - 09:50 am	BCH	00316	Abdelrahman,M
	3.0- 3.0	77593	LAB	3A	W	03:00 - 05:50 pm	BCH	00110	Abdelrahman,M
5117 Asphalt Pavement Design Prerequisite: Civ Eng 3116 with a grade of "C" or better.	3.0- 3.0	77472	LEC	1A	TTh	09:30 - 10:45 am	BCH	00110	Richardson,D
5205 Structural Analysis II Prerequisites: Civ Eng 3201 or Arch Eng 3201. (Co-listed with Arch Eng 5205)	3.0- 3.0	78126	LEC	1A	TTh	12:30 - 01:45 pm	BERTELS	00B12B	Schonberg,W
5206 Low-Rise Building Analysis and Design Prerequisite: Preceded and/or accompanied by Civ -Arch Eng 3210 or Civ-Arch Eng 3220. (Co-listed with Arch Eng 5206)	3.0- 3.0	77225	LEC	1A	MWF	11:00 - 11:50 am	CS	00209	Thomas,J
5250 Air Transportation Prerequisite: Civ Eng 3500 with a grade of "C" or better.	3.0- 3.0		LEC	1A	TTh	02:00 - 03:15 pm	CS	00209	Hu,X
	3.0- 3.0	78140	LAB	3A	ARR	ARR	ARR		Hu,X
	3.0- 3.0	77967	LEC	1A	Th	04:00 - 06:30 pm	BERTELS	00B12A	Mcmillian,D
5270 Structural Masonry Design Prerequisites: Arch Eng 3201 or Civ Eng 3201. (Co-listed with Arch Eng 5270)	3.0- 3.0	77967	LEC	1A	Th	04:00 - 06:30 pm	BERTELS	00B12A	Mcmillian,D
5337 River Mechanics And Sediment Transport Prerequisite: Civ Eng 3330 with a grade of "C" or better.	3.0- 3.0	77475	LEC	1A	MWF	08:00 - 08:50 am	BCH	00317	Mendoza,C
5338 Hydrologic Engineering Prerequisite: Civ Eng 3334 with a grade of "C" or better.	3.0- 3.0	78134	LEC	1A	MWF	09:00 - 09:50 am	TMH	00260	Pierson,M
5442 Construction Planning and Scheduling Strategies Prerequisite: Civ Eng or Arch Eng 4448. (Co-listed with Arch Eng 5442)	3.0- 3.0	78129	LEC	1A	M	04:00 - 06:30 pm	BCH	00110	Bodapati,S
5445 Construction Methods Prerequisite: Civ Eng 4448 with a grade of "C" or better. (Co-listed with Arch Eng 5445)	3.0- 3.0	74840	LEC	1A	MWF	10:00 - 10:50 am	BCH	00315	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	76418	LEC	1A	MWF	10:00 - 10:50 am	BCH	00213	Scott-Showalter,P

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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	77254	LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00B12B	
5513 Traffic Engineering Prerequisite: Civ Eng 3500 with a grade of "C" or better.	3.0- 3.0	76498	LEC	1A	Th	07:00 - 09:30 pm	BCH	00213	Hu,X
UM Shared Course-Primary									
5605 Environmental Systems Modeling Prerequisites: Env Eng/Civ Eng 2601, Env Eng/Civ Eng 2602 and Env Eng/ Civ Eng 3663; or Graduate standing. (Co-listed with Env Eng 5605)	3.0- 3.0	77228	LEC	1A	TTh	12:30 - 01:45 pm	FUL	00107A	Oerther,D
			LEC	1A	ARR	ARR	ARR		
5642 Sustainability, Population, Energy, Water, and Materials Prerequisite: Senior or graduate standing. (Co-listed with Env Eng 5642 and Arch Eng 5642)	3.0- 3.0	76395	LEC	1A	TTh	09:30 - 10:45 am	BCH	00213	Fitch,M
5662 Air Pollution Control Methods Prerequisite: Civ Eng 3330; or graduate standing. (Co-listed with Env Eng 5662)	3.0- 3.0	77970	LEC	1A	MWF	10:00 - 10:50 am	BCH	00209	Fitch,M
5715 Intermediate Soil Mechanics Prerequisites: Civ Eng 3715 with grade of "C" or better.	3.0- 3.0	76529	LEC	1A	Th	04:00 - 06:30 pm	BCH	00213	McLain,K
5716 Geotechnical Earthquake Engineering Prerequisites: Civ Eng 3715 with a grade of "C" or better.	3.0- 3.0	77227	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00213	Kottke,A
5750 Transportation Applications of Geophysics Prerequisite: Junior level standing or higher. (Co-listed with Geo Eng 5761 and Geophys 5761)	3.0- 3.0		LEC	1A	MW	12:00 - 12:50 pm	CS	00209	Anderson,N
	3.0- 3.0	76125	LAB	3A	M	02:00 - 02:50 pm	CS	00209	Anderson,N
6000 Special Problems	0.0- 6.0	75787	IND	6B	ARR	ARR	ARR		Abdelrahman,M
	0.0- 6.0	74855	IND	6C	ARR	ARR	ARR		Baur,S
	0.0- 6.0	74856	IND	6D	ARR	ARR	ARR		Burken,J
	0.0- 6.0	75747	IND	6E	ARR	ARR	ARR		Chen,G
	0.0- 6.0	74857	IND	6F	ARR	ARR	ARR		Deng,W
	0.0- 6.0	74858	IND	6G	ARR	ARR	ARR		ElGawady,M
	0.0- 6.0	74859	IND	6H	ARR	ARR	ARR		Feys,D
	0.0- 6.0	74860	IND	6J	ARR	ARR	ARR		Fitch,M
	0.0- 6.0	74861	IND	6K	ARR	ARR	ARR		Gillis,W
	0.0- 6.0	76038	IND	6L	ARR	ARR	ARR		Hu,X
	0.0- 6.0	74862	IND	6M	ARR	ARR	ARR		Khayat,K
	0.0- 6.0	74863	IND	6N	ARR	ARR	ARR		Libre,N
	0.0- 6.0	74864	IND	6P	ARR	ARR	ARR		Liu,X
	0.0- 6.0	74865	IND	6Q	ARR	ARR	ARR		Ma,H
	0.0- 6.0	74866	IND	6R	ARR	ARR	ARR		Mendoza,C
	0.0- 6.0	74867	IND	6T	ARR	ARR	ARR		Myers,J
	0.0- 6.0	74868	IND	6U	ARR	ARR	ARR		Oerther,D
	0.0- 6.0	74869	IND	6V	ARR	ARR	ARR		Schonberg,W
	0.0- 6.0	76887	IND	6W	ARR	ARR	ARR		Showalter,W
	0.0- 6.0	78141	IND	6X	ARR	ARR	ARR		Sneed,L
	0.0- 6.0	78142	IND	6Y	ARR	ARR	ARR		Wang,J
	0.0- 6.0	78143	IND	6Z	ARR	ARR	ARR		Yan,G
	0.0- 6.0	78144	IND	6AA	ARR	ARR	ARR		Zhang,X
6001 Special Topics Prerequisites: CE 3715 or other introductory courses in soil mechanics. CE 6715 is not required but strongly recommended.	3.0- 3.0	78148	LEC	1A	M	07:00 - 09:30 pm	BCH	00121	Zhang,X
									Soil Mechanics for Unsat Oils
	3.0- 3.0	78150	LEC	1B	TTh	02:00 - 03:15 pm	LIB	000G14	Chen,G
									Structural Health Monitoring
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	74885	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	74886	IND	6A	ARR	ARR	ARR		Burken,J
6099 Research Consent of instructor required.	0.0-15.0	74870	IND	6A	ARR	ARR	ARR		Abdelrahman,M
	0.0-15.0	75748	IND	6B	ARR	ARR	ARR		Bate,B
	0.0-15.0	74871	IND	6C	ARR	ARR	ARR		Baur,S
	0.0-15.0	75749	IND	6D	ARR	ARR	ARR		Burken,J
	0.0-15.0	74872	IND	6E	ARR	ARR	ARR		Chen,G
	0.0-15.0	74873	IND	6F	ARR	ARR	ARR		Deng,W
	0.0-15.0	74874	IND	6G	ARR	ARR	ARR		ElGawady,M
	0.0-15.0	74875	IND	6H	ARR	ARR	ARR		Feys,D
	0.0-15.0	75772	IND	6J	ARR	ARR	ARR		Fitch,M
	0.0-15.0	76039	IND	6K	ARR	ARR	ARR		Hu,X
	0.0-15.0	74876	IND	6L	ARR	ARR	ARR		Khayat,K
	0.0-15.0	74877	IND	6M	ARR	ARR	ARR		Libre,N
	0.0-15.0	74878	IND	6N	ARR	ARR	ARR		Liu,X
	0.0-15.0	74879	IND	6P	ARR	ARR	ARR		Ma,H
	0.0-15.0	74880	IND	6Q	ARR	ARR	ARR		Mendoza,C
	0.0-15.0	74881	IND	6R	ARR	ARR	ARR		Myers,J
	0.0-15.0	74882	IND	6T	ARR	ARR	ARR		Oerther,D
	0.0-15.0	74883	IND	6U	ARR	ARR	ARR		Schonberg,W
	0.0-15.0	74884	IND	6V	ARR	ARR	ARR		Showalter,W
	0.0-15.0	76889	IND	6W	ARR	ARR	ARR		Sneed,L
	0.0-15.0	76890	IND	6X	ARR	ARR	ARR		Wang,J
	0.0-15.0	78145	IND	6Y	ARR	ARR	ARR		Wu,C
	0.0-15.0	78146	IND	6Z	ARR	ARR	ARR		Yan,G
	0.0-15.0	78147	IND	6AA	ARR	ARR	ARR		Zhang,X
6211 Plastic Analysis And Design Of Metal Structures	3.0- 3.0	78156	LEC	1A	TTh	08:00 - 09:15 am	FUL	00107A	ElGawady,M
6221 Advanced Behavior Of Reinforced And Prestressed Concrete Prerequisite: Civ Eng 3220 with grade of "C" or better.	3.0- 3.0	77476	LEC	1A	CANCELLED				
6340 Urban Hydrology Prerequisite: Civ Eng 3333.	3.0- 3.0	76641	LEC	1A	W	04:00 - 06:30 pm	BCH	00213	Wilson,L
6442 Construction Administration, Planning and Control Prerequisite: Preceded or accompanied by Civ Eng 5445.	3.0- 3.0	76495	LEC	1A	M	04:00 - 06:30 pm	BERTELS	00B12B	Berry,R
6600 Chemical Principles In Environmental Engineering Prerequisite: Graduate Standing. (Co-listed with Env Eng 6600)	3.0- 3.0	76313	LEC	1A	MWF	11:00 - 11:50 am	BCH	00316	
6601 Biological Principles In Environmental Engineering Systems (Co-listed with Env En 6601)	3.0- 3.0		LEC	1A	TTh	11:00 - 12:15 pm	LIB	000G14	Oerther,D
	3.0- 3.0	76892	LAB	3A	ARR	ARR	ARR		Oerther,D
6712 Computer Modeling in Geotechnical Engineering Prerequisite: Civ Eng 3715 and graduate standing.	3.0- 3.0	77230	LEC	1A	M	04:00 - 06:30 pm	CS	00209	Deng,W
6713 Dynamics of Earth Materials Preceded or accompanied by Civ Eng 5715.	3.0- 3.0	78154	LEC	1A	ARR	ARR	ARR		Zhang,X

Computer Engineering

2210 Introduction to Digital Logic	3.0- 3.0	74950	LEC	1B	TTh	09:30 - 10:45 am	EECH	00101	Stanley,R
	3.0- 3.0	74951	LEC	1C	TTh	12:30 - 01:45 pm	MCNT	00216	Stanley,R
	3.0- 3.0	76813	LEC	1D	MWF	02:00 - 02:50 pm	EECH	00102	Cetinkaya,E
	3.0- 3.0	77307	LEC	1E	TTh	08:00 - 09:15 am	EECH	00G31	Wunsch,D
2211 Computer Engineering Laboratory Preceded or accompanied by Comp Eng 2210.	1.0- 1.0	74952	LAB	3A	M	03:00 - 04:50 pm	EECH	00209A	Stanley,R
	1.0- 1.0	74953	LAB	3B	T	02:30 - 04:20 pm	EECH	00209A	Stanley,R
	1.0- 1.0	76138	LAB	3C	T	06:10 - 08:00 pm	EECH	00209A	Stanley,R
	1.0- 1.0	75706	LAB	3D	W	01:00 - 02:50 pm	EECH	00209A	Stanley,R

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	1.0- 1.0	74955	LAB	3E	W	03:00 - 04:50 pm	EECH	00209A	Stanley,R	
			Communication Emphasized							
	1.0- 1.0	74956	LAB	3F	W	06:10 - 08:00 pm	EECH	00209A	Stanley,R	
			Communication Emphasized							
	1.0- 1.0	74957	LAB	3G	Th	02:30 - 04:20 pm	EECH	00209A	Stanley,R	
			Communication Emphasized							
	1.0- 1.0	75980	LAB	3H	Th	06:10 - 08:00 pm	EECH	00209A	Stanley,R	
			Communication Emphasized							
	1.0- 1.0	75926	LAB	3J	F	03:00 - 04:50 pm	EECH	00209A	Stanley,R	
			Communication Emphasized							
	1.0- 1.0	74954	LAB	3K	F	01:00 - 02:50 pm	EECH	00209A	Stanley,R	
			Communication Emphasized							
	1.0- 1.0	76785	LAB	3L	F	06:10 - 08:00 pm	EECH	00209A	Stanley,R	
			Communication Emphasized							
	1.0- 1.0	77747	LAB	3M	M	08:10 - 10:00 pm	EECH	00209A	Stanley,R	
			Communication Emphasized							
3001	Special Topics	3.0- 3.0	78117	LEC	1A	TTh	09:30 - 10:45 am	EECH	00112	Sarangapani,J
	Prerequisites: A grade of "C" or better in Elec Eng 2120, Math 3108, and Math 3304; passing the Elec Eng Advancement Exam II. (Co-listed with Elec Eng 3001)									
3002	Cooperative Engineering Training	1.0- 1.0	74958	IND	6A	ARR	ARR	ARR		Stanley,R
	Prerequisite: Consent of the Electrical and Computer Engineering Department required.									
3110	Computer Organization and Design	3.0- 3.0	76063	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00124	Choi,M
	Prerequisites: COMP ENG 2210; preceded or accompanied by COMP ENG 3150.									
3150	Introduction to Microcontrollers and Embedded System Design	3.0- 3.0	74959	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00G31	Hurson,A
		3.0- 3.0	75670	LEC	1B	TTh	09:30 - 10:45 am	EECH	00G31	Hurson,A
	Prerequisites: COMP ENG 2210 and COMP SCI 1570 (or programming equivalent) each with grade of "C" or better.									
3151	Digital Engineering Lab II	1.0- 1.0	74960	LAB	3A	M	08:00 - 09:00 am	EE	00106	Hurson,A
	Prerequisites: Comp Eng 2210, Comp Eng 2211, and Comp Sci 1570 (or programming equivalent) each with grade of "C" or better. Preceded or accompanied by Comp Eng 3150.									
		1.0- 1.0	76384	LAB	3B	M	10:00 - 11:00 am	EE	00106	Hurson,A
			Communication Emphasized							
		1.0- 1.0	74961	LAB	3B	M	11:00 - 11:50 am	EECH	00209A	
			Communication Emphasized							
		1.0- 1.0	74961	LAB	3C	M	06:10 - 07:10 pm	EE	00106	Hurson,A
			Communication Emphasized							
		1.0- 1.0	74961	LAB	3C	M	07:10 - 08:00 pm	EECH	00209A	
			Communication Emphasized							
		1.0- 1.0	76062	LAB	3E	W	10:00 - 11:00 am	EE	00106	Hurson,A
			Communication Emphasized							
		1.0- 1.0	76062	LAB	3E	W	11:00 - 11:50 am	EECH	00209A	
			Communication Emphasized							
		1.0- 1.0	77082	LAB	3F	CANCELLED				
		1.0- 1.0	77676	LAB	3G	M	05:00 - 05:50 pm	EE	00106	Hurson,A
			Communication Emphasized							
		1.0- 1.0	77676	LAB	3G	M	06:00 - 06:50 pm	EECH	00209A	
			Communication Emphasized							
4000	Special Problems	1.0- 6.0	74962	IND	6A	ARR	ARR	ARR		Sedighsarvestani,S
	Consent of instructor required.									
		1.0- 6.0	75944	IND	6B	ARR	ARR	ARR		Stanley,R
		1.0- 6.0	76836	IND	6C	ARR	ARR	ARR		Zawodniok,M
4096	Computer Engineering Senior Project I	1.0- 1.0		RSD	2A	M	12:00 - 12:50 pm	EECH	00G31	Woodley,R
	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.									
		1.0- 1.0		RSD	2B	M	12:00 - 12:50 pm	EECH	00G31	Woodley,R
		1.0- 1.0	74967	LAB	3A	M	03:00 - 03:50 pm	TMH	00295	Woodley,R
		1.0- 1.0	74969	LAB	3B	W	03:00 - 03:50 pm	EECH	00102	Zawodniok,M

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4097 Computer Engineering Senior Project II Prerequisites: Comp Eng 4096 with a grade of "C" or better, Stat 3117 or Stat 3115 or Stat 5643, and Sp&M S 1185.	3.0- 3.0	74970	LAB	3A	MW	03:00 - 04:50 pm	EECH	00G31	Ferguson,I
	3.0- 3.0	74971	LAB	3B	TTh	03:30 - 05:20 pm	EECH	00G31	Woodley,R
4099 Undergraduate Research	1.0- 6.0	75790	IND	6A	ARR	ARR	ARR		Beetner,D
	1.0- 6.0	74964	IND	6B	ARR	ARR	ARR		Hurson,A
	1.0- 6.0	74965	IND	6C	ARR	ARR	ARR		Sedighsarvestani,S
	1.0- 6.0	77865	IND	6D	ARR	ARR	ARR		Wunsch,D
5099 Special Research And Thesis Prerequisite: Consent of the instructor required.	1.0-15.0	74973	IND	6A	ARR	ARR	ARR		Acar,L
	1.0-15.0	74892	IND	6B	ARR	ARR	ARR		Beetner,D
	1.0-15.0	75718	IND	6C	ARR	ARR	ARR		Cetinkaya,E
	1.0-15.0	74974	IND	6D	ARR	ARR	ARR		Choi,M
	1.0-15.0	74975	IND	6E	ARR	ARR	ARR		Drewniak,J
	1.0-15.0	74976	IND	6F	ARR	ARR	ARR		Erickson,K
	1.0-15.0	75698	IND	6G	ARR	ARR	ARR		Fan,J
	1.0-15.0	75789	IND	6H	ARR	ARR	ARR		Hurson,A
	1.0-15.0	74977	IND	6J	ARR	ARR	ARR		Khilkevich,V
	1.0-15.0	74978	IND	6K	ARR	ARR	ARR		McMillin,B
	1.0-15.0	74979	IND	6L	ARR	ARR	ARR		Modares,H
	1.0-15.0	74980	IND	6M	ARR	ARR	ARR		Pommerenke,D
	1.0-15.0	74981	IND	6N	ARR	ARR	ARR		Sarangapani,J
	1.0-15.0	74982	IND	6P	ARR	ARR	ARR		Sedighsarvestani,S
	1.0-15.0	76343	IND	6Q	ARR	ARR	ARR		Stanley,R
	1.0-15.0	76349	IND	6R	ARR	ARR	ARR		Watkins,S
	1.0-15.0	76361	IND	6T	ARR	ARR	ARR		Wu,C
	1.0-15.0	76517	IND	6U	ARR	ARR	ARR		Wunsch,D
	1.0-15.0	76818	IND	6V	ARR	ARR	ARR		Zawodniok,M
5120 Digital Computer Design Prerequisites: COMP ENG 3150 and COMP ENG 3151.	3.0- 3.0	76474	LEC	1A	T	07:00 - 09:30 pm	TMH	00260	Hanna,W
5160 Embedded Processor System Design Prerequisites: COMP ENG 3150 or equivalent or 80x51 processor experience.	3.0- 3.0	76659	LEC	1A	MWF	11:00 - 11:50 am	CS	00205	Younger,R
5210 Introduction To VLSI Design Prerequisites: Elec Eng 2200 and Comp Eng 2210.	3.0- 3.0	77288	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00103	Hwang,C
5310 Computational Intelligence Prerequisite: Graduate Standing. (Co-listed with Elec Eng 5310 and Sys Eng 5211)	3.0- 3.0	75840	LEC	1A	W	04:00 - 06:30 pm	TMH	00260	Corns,S
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	76578	LEC	1A	TTh	11:00 - 12:15 pm	EECH	00103	Sedighsarvestani,S
5420 Introduction to Network Security Prerequisite: Comp Eng 5410 or Comp Sci 5600.	3.0- 3.0	76598	LEC	1A	MWF	10:00 - 10:50 am	TMH	00260	Cetinkaya,E
5430 Wireless Networks Prerequisites: Hardware competency, Elec Eng 3420 or Comp Eng 3150 and graduate standing. (Co-listed with Elec Eng 5430 and Sys Eng 5323.)	3.0- 3.0		LEC	1A	MW	08:00 - 08:50 am	CS	00209	Zawodniok,M
	3.0- 3.0	77502	LAB	3A	F	08:00 - 08:50 am	CS	00209	Zawodniok,M
5510 Fault-Tolerant Digital Systems Prerequisites: Comp Eng 2210 and Comp Eng 2211.	3.0- 3.0	74963	LEC	1A	TTh	08:00 - 09:15 am	EECH	00112	Choi,M
6000 Special Problems Prerequisite: Consent of instructor.	1.0- 6.0	74972	IND	6A	ARR	ARR	ARR		Choi,M
6040 Oral Examination	0.0- 0.0	76744	IND	6A	ARR	ARR	ARR		Beetner,D
6050 Continuous Registration	1.0- 1.0	74983	IND	6A	ARR	ARR	ARR		Beetner,D
6099 Special Research and Thesis Prerequisite: Consent of the instructor required.	1.0-15.0	76726	IND	6A	ARR	ARR	ARR		Acar,L
	1.0-15.0	76727	IND	6B	ARR	ARR	ARR		Beetner,D
	1.0-15.0	76728	IND	6C	ARR	ARR	ARR		Cetinkaya,E
	1.0-15.0	76729	IND	6D	ARR	ARR	ARR		Choi,M
	1.0-15.0	76730	IND	6E	ARR	ARR	ARR		Drewniak,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	1.0-15.0	76731	IND	6F	ARR	ARR	ARR		Erickson,K
	1.0-15.0	76732	IND	6G	ARR	ARR	ARR		Fan,J
	1.0-15.0	76733	IND	6H	ARR	ARR	ARR		Hurson,A
	1.0-15.0	76734	IND	6J	ARR	ARR	ARR		McMillin,B
	1.0-15.0	76735	IND	6K	ARR	ARR	ARR		Modares,H
	1.0-15.0	76736	IND	6L	ARR	ARR	ARR		Sarangapani,J
	1.0-15.0	76737	IND	6M	ARR	ARR	ARR		Sedighsarvestani,S
	1.0-15.0	76738	IND	6N	ARR	ARR	ARR		Stanley,R
	1.0-15.0	76739	IND	6P	ARR	ARR	ARR		Watkins,S
	1.0-15.0	76740	IND	6Q	ARR	ARR	ARR		Wu,C
	1.0-15.0	76741	IND	6R	ARR	ARR	ARR		Wunsch,D
	1.0-15.0	76742	IND	6T	ARR	ARR	ARR		Zawodniok,M
6310 Markov Decision Processes Prerequisite: Graduate standing in background of probability or statistics. (Co-listed with Mech Eng 6447, Aero Eng 6447, Eng Mgt 6410 and Comp Sci 6202)	3.0- 3.0	77612	LEC	1A	M	04:00 - 06:30 pm	TMH	00260	Wunsch,D
6440 Network Performance Analysis Prerequisites: Comp Eng 5410 or Comp Sci 4600; Stat 3117 or 5643. (Co-listed with Comp Sci 6602)	3.0- 3.0	77931	LEC	1A	TTh	03:30 - 04:45 pm	EECH	00103	Sedighsarvestani,S
Computer Science									
1200 Discrete Mathematics for Computer Science Prerequisite: A grade of "C" or better in both Comp Sci 1570 and one of Math 1120, Math 1140, Math 1208, and Math 1214.	3.0- 3.0	74908	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	000G5	Zhu,P
1570 Introduction To Programming	3.0- 3.0	74900	LEC	1C	MWF	10:00 - 10:50 am	EECH	00G31	
	3.0- 3.0	74901	LEC	1E	MWF	12:00 - 12:50 pm	CS	00202	Price,C
	3.0- 3.0	76543	LEC	1F	MWF	01:00 - 01:50 pm	CS	00216	
	3.0- 3.0	76841	LEC	1G	MWF	02:00 - 02:50 pm	CS	00203	
	3.0- 3.0	76842	LEC	1H	MWF	03:00 - 03:50 pm	CS	00203	
1575 Data Structures Prerequisite: Grade of "C" or better in Comp Sci 1570.	3.0- 3.0	77456	LEC	1A	MWF	05:00 - 05:50 pm	EECH	00G31	Taylor,P
1580 Introduction To Programming Laboratory Prerequisite: Accompanied by Comp Sci 1570.	1.0- 1.0	74902	LAB	3A	T	10:00 - 11:50 am	CH	00105	
	1.0- 1.0	74903	LAB	3B	T	12:00 - 01:50 pm	TMH	00251	
	1.0- 1.0	74904	LAB	3C	T	02:00 - 03:50 pm	TMH	00251	
	1.0- 1.0	76843	LAB	3D	T	06:00 - 07:50 pm	TMH	00251	
	1.0- 1.0	74905	LAB	3E	W	02:00 - 03:50 pm	TMH	00251	
	1.0- 1.0	76544	LAB	3F	W	04:00 - 05:50 pm	TMH	00251	
	1.0- 1.0	76844	LAB	3G	W	06:00 - 07:50 pm	TMH	00251	
1585 Data Structures Laboratory Prerequisite: Preceded or accompanied by Comp Sci 1575.	1.0- 1.0	77457	LAB	3A	M	02:00 - 03:50 pm	MCNutt	234	
	1.0- 1.0	77458	LAB	3B	M	12:00 - 01:50 pm	MCNutt	234	
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	76666	LEC	1A	TTh	03:30 - 04:20 pm	SHNK	000G3	Zhu,P
1982 MATLAB Programming Laboratory Prerequisite: Accompanied by Comp Sci 1972.	1.0- 1.0	76667	LAB	3A	W	09:00 - 10:50 am	MCNutt	234	Zhu,P
	1.0- 1.0	76846	LAB	3B	W	12:00 - 01:50 pm	MCNutt	234	
	1.0- 1.0	77448	LAB	3C	W	02:00 - 03:50 pm	MCNutt	234	
	1.0- 1.0	78089	LAB	3D	W	04:00 - 05:50 pm	MCNutt	234	
	1.0- 1.0	78090	LAB	3E	W	06:00 - 07:50 pm	MCNutt	234	
	1.0- 1.0	78091	LAB	3F	W	08:00 - 09:50 pm	MCNutt	234	
2002 Cooperative Work Training	1.0- 5.0	74909	IND	6A	ARR	ARR	ARR		Price,C
2200 Theory of Computer Science Prerequisite: A "C" or better grade in both Comp Sci 1200 and Comp Sci 1510.	3.0- 3.0	76053	LEC	1A	TTh	02:00 - 03:15 pm	PHYS	00104	
2300 File Structures And Introduction To Database Systems Prerequisite: A "C" or better grade in Comp Sci 1510.	3.0- 3.0	77222	LEC	1A	TTh	09:30 - 10:45 am	CS	00207	Lin,D
	3.0- 3.0	74912	LEC	1B	TTh	11:00 - 12:15 pm	CS	00207	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2500 Algorithms 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	74913	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00211	
	3.0- 3.0	76452	LEC	1B	TTh	03:30 - 04:45 pm	MCNT	00211	
3001 Special Topics Prerequisites: A grade of "C" or better in Comp Sci 2300, Comp Sci 2500, and in one of Stat 3113, Stat 3115, Stat 3117, or Stat 5643.	3.0- 3.0	78092	LEC	1A	TTh	02:00 - 03:15 pm	CS	00202	Fu,Y
									Intro to Data Science
3100 Software Engineering I Prerequisite: A "C" or better grade in Comp Sci 2500 and at least Junior standing.	3.0- 3.0	75876	LEC	1A	MWF	11:00 - 11:50 am	CS	00207	Xiong,H
3200 Introduction To Numerical Methods Prerequisites: Program competency and a "C" or better grade in either Math 1215 or Math 1221.	3.0- 3.0	74910	LEC	1A	TTh	08:00 - 09:15 am	BCH	00101	Sabharwal,C
	3.0- 3.0	74911	LEC	1B	TTh	03:30 - 04:45 pm	TMH	00295	Sabharwal,C
3500 Programming Languages And Translators Prerequisite: A "C" or better grade in Comp Sci 2200.	3.0- 3.0	76222	LEC	1A	MWF	02:00 - 02:50 pm	CH	00104	Leopold,J
	3.0- 3.0	77449	LEC	1B	MWF	03:00 - 03:50 pm	CS	00207	Leopold,J
3600 Introduction to Computer Security Prerequisite: A "C" or better grade in Comp Sci 2500.	3.0- 3.0	76206	LEC	1A	MWF	12:00 - 12:50 pm	TMH	00199	Taylor,P
3800 Introduction To Operating Systems Prerequisites: A "C" or better grade in all of Comp Sci 1510, Comp Sci 1200, and Comp Eng 3150.	3.0- 3.0	74914	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00211	Gosnell,M
	3.0- 3.0	77450	LEC	1B	MWF	10:00 - 10:50 am	MCNT	00216	Gosnell,M
4000 Special Problems	0.0- 6.0	75973	IND	6A	ARR	ARR	ARR		McMillin,B
	0.0- 6.0	77628	IND	6B	ARR	ARR	ARR		Tauritz,D
4001 Special Topics Prerequisites: A grade of "C" or better in COMP SCI/ECON 3001 - Skill Development for Entrepreneurs and Innovators. (Co-listed with Econ 4001)	2.0- 2.0		LEC	1A	M	05:00 - 06:30 pm	IDE	00202	Bachman,B
									Adv Explor and Innovation Meth
	2.0- 2.0	78206	LAB	3A	M	05:00 - 06:30 pm	IDE	00202	Bachman,B
									Adv Explor and Innovation Meth
4096 Software Systems Development I 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.	3.0- 3.0	74929	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00295	Morales,A
									Interpersonal Dynamics
4097 Software Systems Development II Prerequisite: A "C" or better grade in Comp Sci 4096.	3.0- 3.0	74930	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00295	Morales,A
4099 Undergraduate Research	0.0- 6.0	74922	IND	6A	ARR	ARR	ARR		Das,S
	0.0- 6.0	74928	IND	6B	ARR	ARR	ARR		Fu,Y
	0.0- 6.0	74924	IND	6C	ARR	ARR	ARR		Guo,Z
	0.0- 6.0	74925	IND	6D	ARR	ARR	ARR		Jiang,W
	0.0- 6.0	74926	IND	6E	ARR	ARR	ARR		Leopold,J
	0.0- 6.0	74927	IND	6F	ARR	ARR	ARR		Lin,D
	0.0- 6.0	74923	IND	6G	ARR	ARR	ARR		Madria,S
	0.0- 6.0	76428	IND	6J	ARR	ARR	ARR		McMillin,B
	0.0- 6.0	76446	IND	6K	ARR	ARR	ARR		Morales,A
	0.0- 6.0	76525	IND	6L	ARR	ARR	ARR		Sedighsarvestani,S
	0.0- 6.0	76698	IND	6M	ARR	ARR	ARR		Tauritz,D
	0.0- 6.0	76816	IND	6N	ARR	ARR	ARR		Taylor,P
	0.0- 6.0	77577	IND	6P	ARR	ARR	ARR		Xiong,H
	0.0- 6.0	77626	IND	6Q	ARR	ARR	ARR		Yin,Z
	0.0- 6.0	78249	IND	6R	ARR	ARR	ARR		Wunsch,D
	0.0- 6.0	74915	IND	6C	ARR	ARR	ARR		Leopold,J
	0.0- 6.0	74916	IND	6D	ARR	ARR	ARR		Lin,D
0.0- 6.0	74917	IND	6E	ARR	ARR	ARR		Lutzen,K	
0.0- 6.0	74918	IND	6G	ARR	ARR	ARR		Madria,S	

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	0.0- 6.0	74919	IND	6H	ARR	ARR	ARR		McMillin,B
	0.0- 6.0	74921	IND	6J	ARR	ARR	ARR		Sabharwal,C
	0.0- 6.0	74920	IND	6K	ARR	ARR	ARR		Tauritz,D
5001 Special Topics Prerequisites: A grade of "C" or better in both COMP SCI 2500 and MATH 3108.	3.0- 3.0	78093	LEC	1A	MWF	01:00 - 01:50 pm	CS	00207	Morales,A
									Intro to Deep Learning
	3.0- 3.0	78211	LEC	1B	T	04:00 - 06:30 pm	IDE	00202	
									Comp Sci Entrepreneurship
5099 Research	0.0-16.0	74938	IND	6B	ARR	ARR	ARR		Das,S
	0.0-16.0	74940	IND	6C	ARR	ARR	ARR		Fu,Y
	0.0-16.0	76144	IND	6D	ARR	ARR	ARR		Guo,Z
	0.0-16.0	76137	IND	6E	ARR	ARR	ARR		Hurson,A
	0.0-16.0	74941	IND	6F	ARR	ARR	ARR		Jiang,W
	0.0-16.0	76139	IND	6H	ARR	ARR	ARR		Leopold,J
	0.0-16.0	74942	IND	6J	ARR	ARR	ARR		Lin,D
	0.0-16.0	74943	IND	6L	ARR	ARR	ARR		Madria,S
	0.0-16.0	74944	IND	6M	ARR	ARR	ARR		McMillin,B
	0.0-16.0	76143	IND	6N	ARR	ARR	ARR		Sabharwal,C
	0.0-16.0	74939	IND	6P	ARR	ARR	ARR		Sedighsarvestani,S
	0.0-16.0	74945	IND	6Q	ARR	ARR	ARR		Silvestri,S
	0.0-16.0	74946	IND	6R	ARR	ARR	ARR		Tauritz,D
	0.0-16.0	76381	IND	6T	ARR	ARR	ARR		Wunsch,D
	0.0-16.0	76810	IND	6U	ARR	ARR	ARR		Xiong,H
	0.0-16.0	76811	IND	6V	ARR	ARR	ARR		Yin,Z
5200 Analysis Of Algorithms Prerequisite: A "C" or better grade in Comp Sci 2500.	3.0- 3.0	76848	LEC	1A	TTh	11:00 - 12:15 pm	CS	00209	Markowsky,G
5300 Database Systems Prerequisite: A "C" or better grade in both Comp Sci 1200 and Comp Sci 2300.	3.0- 3.0	76577	LEC	1A	MWF	02:00 - 02:50 pm	FUL	00107A	Gosnell,M
5401 Evolutionary Computing Prerequisite: A "C" or better grade in both Comp Sci 2500 and in a Statistics course.	3.0- 3.0	76849	LEC	1A	TTh	09:30 - 10:45 am	CS	00209	Tauritz,D
5402 Introduction to Data Mining Prerequisites: A grade of "C" or better in all of Comp Sci 2300, Comp Sci 2500, and one of Stat 3113, Stat 3115, Stat 3117 or Stat 5643.	3.0- 3.0	78094	LEC	1A	TTh	09:30 - 10:45 am	CS	00202	Fu,Y
5405 Java Gui & Visualization Prerequisite: A "C" or better grade in Comp Sci 2500 or equivalent.	3.0- 3.0	75844	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00318	Sabharwal,C
5500 The Structure of a Compiler Prerequisite: A "C" or better grade in both Comp Sci 3500 and Comp Sci 2500.	3.0- 3.0	78095	LEC	1A	MWF	11:00 - 11:50 am	BCH	00121	Leopold,J
5600 Computer Networks Prerequisite: A "C" or better grade in Comp Sci 3800.	3.0- 3.0	76664	LEC	1A	TTh	05:00 - 06:15 pm	CS	00202	Taylor,P

Computer Science

5602 Introduction to Cryptography Prerequisites: A grade of "C" or better in COMP SCI 5200 or a grade of "B" or better in COMP SCI 2500.	3.0- 3.0	78096	LEC	1A	CANCELLED				
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Computer Science

6000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	74931	IND	6A	ARR	ARR	ARR		Das,S
	0.0- 6.0	74932	IND	6B	ARR	ARR	ARR		Guo,Z
	0.0- 6.0	74933	IND	6C	ARR	ARR	ARR		Leopold,J
	0.0- 6.0	74934	IND	6E	ARR	ARR	ARR		Madria,S
	0.0- 6.0	74935	IND	6F	ARR	ARR	ARR		McMillin,B
	0.0- 6.0	74936	IND	6G	ARR	ARR	ARR		Sabharwal,C
	0.0- 6.0	74937	IND	6H	ARR	ARR	ARR		Tauritz,D
6001 Special Topics Prerequisites: A grade of "C" or better in both COMP SCI 3800 and COMP SCI 5200.	3.0- 3.0	78097	LEC	1A	TTh	02:00 - 03:15 pm	BERTELS	00B12B	Guo,Z
									Topics in RTS and CPS
	3.0- 3.0	78098	LEC	1B	T	04:00 - 06:30 pm	CS	00209	Das,S
									Applied Graph Theory

CATALOG #	AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6010	Seminar	1.0- 1.0	76380	RSD	2A	M	10:00 - 10:50 am	CS	00209	Markowsky,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	74947	IND	6A	ARR	ARR	ARR		Lin,D
6050	Continuous Registration Doctoral students only. Graduate office permission required.	1.0- 1.0	74948	IND	6A	ARR	ARR	ARR		Lin,D
6099	Research Special Topics	0.0-16.0	76645	IND	6B	ARR	ARR	ARR		Das,S
		0.0-16.0	76646	IND	6C	ARR	ARR	ARR		Ercal,F
		0.0-16.0	76647	IND	6D	ARR	ARR	ARR		Fu,Y
		0.0-16.0	76648	IND	6E	ARR	ARR	ARR		Guo,Z
		0.0-16.0	76649	IND	6F	ARR	ARR	ARR		Hurson,A
		0.0-16.0	76650	IND	6H	ARR	ARR	ARR		Jiang,W
		0.0-16.0	76651	IND	6J	ARR	ARR	ARR		Leopold,J
		0.0-16.0	76652	IND	6L	ARR	ARR	ARR		Lin,D
		0.0-16.0	76653	IND	6M	ARR	ARR	ARR		Madria,S
		0.0-16.0	76654	IND	6N	ARR	ARR	ARR		McMillin,B
		0.0-16.0	76655	IND	6P	ARR	ARR	ARR		Sabharwal,C
		0.0-16.0	76656	IND	6Q	ARR	ARR	ARR		Sedighsarvestani,S
		0.0-16.0	76657	IND	6R	ARR	ARR	ARR		Silvestri,S
		0.0-16.0	76658	IND	6T	ARR	ARR	ARR		Tauritz,D
		0.0-16.0	76814	IND	6U	ARR	ARR	ARR		Wunsch,D
		0.0-16.0	76815	IND	6V	ARR	ARR	ARR		Xiong,H
		0.0-16.0	77453	IND	6W	ARR	ARR	ARR		Yin,Z
6102	Model Based Systems Engineering Prerequisites: Graduate Standing. (Co-listed with SYS ENG 6542)	3.0- 3.0	78010	LEC	1A	F	04:00 - 06:30 pm	BERTELS	00B12A	Do,Q
6202	Markov Decision Processes Prerequisite: Graduate standing in background of probability or statistics. (Co-listed with Comp Eng 6310, Mech Eng 6447, Aero Eng 6447 and Eng Mgt 6410)	3.0- 3.0	76101	LEC	1A	M	04:00 - 06:30 pm	TMH	00260	Wunsch,D
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	76850	LEC	1A	Th	04:00 - 06:30 pm	CS	00209	Madria,S
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	78099	LEC	1A	TTh	08:00 - 09:15 am	CS	00209	McMillin,B
6601	Privacy Preserving Data Integration and Analysis Prerequisite: A "C" or better grade in both Comp Sci 5300 and Comp Sci 3600.	3.0- 3.0	77561	LEC	1A	CANCELLED				
6602	Network Performance Analysis Prerequisites: Comp Eng 5410 or Comp Sci 4600; Stat 3117 or 5643. (Co-listed with Comp Eng 6440)	3.0- 3.0	77933	LEC	1A	TTh	03:30 - 04:45 pm	EECH	00103	Sedighsarvestani,S

Economics

1100	Principles Of Microeconomics	3.0- 3.0	74985	LEC	1A	MWF	11:00 - 11:50 am	EMGT	00103	Fikru,M
		3.0- 3.0	74984	LEC	1B	TTh	02:00 - 03:15 pm	SHNK	000G3	Park,E
		3.0- 3.0	76308	LEC	1C	TTh	12:30 - 01:45 pm	EMGT	00103	Park,E
1200	Principles Of Macroeconomics	3.0- 3.0	76412	LEC	1A	M	06:00 - 09:00 pm	BCH	00120	Zhou,Y
		3.0- 3.0	74987	LEC	1B	MWF	03:00 - 03:50 pm	BCH	00125	
		3.0- 3.0	76413	LEC	1C	MWF	02:00 - 02:50 pm	TMH	00199	
		3.0- 3.0	74986	LEC	1D	TTh	12:30 - 01:45 pm	PHYS	00104	Zhou,Y
		3.0- 3.0	77085	LEC	1E	MWF	10:00 - 10:50 am	FUL	00227	
2100	Intermediate Microeconomic Theory Prerequisites: Econ 1100 and 1200.	3.0- 3.0	74990	LEC	1A	TTh	11:00 - 12:15 pm	EECH	00111	Park,E
2200	Intermediate Macroeconomic Theory Prerequisites: Econ 1100 and 1200.	3.0- 3.0	74991	LEC	1A	TTh	12:30 - 01:45 pm	EMGT	00102	Davis,M
3512	Mining Industry Economics Prerequisite: Econ 1100 or 1200. (Co-listed with Min Eng 3512)	3.0- 3.0	76198	LEC	1A	TTh	08:00 - 09:15 am	EMGT	00201	Johnson,C

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4000 Special Problems	0.0- 6.0	76644	IND	6B	ARR	ARR	ARR		Gelles,G
4001 Special Topics Prerequisites: A grade of "C" or better in COMP SCIECON 3001 - Skill Development for Entrepreneurs and Innovators. (Co-listed with Comp Sci 4001)	2.0- 2.0		LEC	1A	M	05:00 - 06:30 pm	IDE	00202	Bachman,B
	2.0- 2.0	78204	LAB	3A	M	05:00 - 06:30 pm	IDE	00202	Bachman,B
	1.0- 1.0	78207	LAB	3B	M	04:00 - 04:50 pm	IDE	00202	Bachman,B
4085 Internship Prerequisites: Senior status; must have completed 24 hours in major.	0.0- 6.0	74992	IND	6A	ARR	ARR	ARR		Gelles,G
4440 Environmental And Natural Resource Economics Prerequisite: Econ 2100. (Co-listed with Min Eng 4523)	3.0- 3.0	76216	LEC	1A	MWF	10:00 - 10:50 am	CSF	00G5D	Fikru,M
4512 Mine Management Prerequisite: Completion of 50 credits toward Mining Engineering degree. (Co-listed with MIN ENG 4512)	3.0- 3.0	78267	LEC	1A	MWF	09:00 - 09:50 am	CS	00209	Weiss,D
4720 International Finance Prerequisite: Econ 2200.	3.0- 3.0	76091	LEC	1A	TTh	09:30 - 10:45 am	HARR	00107	Davis,M
5000 Special Problems	0.0- 6.0	76783	IND	6A	ARR	ARR	ARR		Bachman,B
5001 Special Topics Prerequisites: Senior or graduate standing. (Co-listed Eng Mgt 5001)	3.0- 3.0	78209	LEC	1B	T	04:00 - 06:30 pm	IDE	00202	
5337 Financial Mathematics Prerequisites: Math 1215 or Math 1221, Econ 2100 or Econ 2200 or Finance 2150 or Econ 5160, Stat 3111 or Stat 3113 or Stat 3115 or Stat 3117 or Stat 5643. (Co-listed with Math 5737)	3.0- 3.0	78247	LEC	1A	MWF	01:00 - 01:50 pm	ROLLA	000G5	Bohner,M
5532 Advanced Mining Economics (Co-listed with MIN ENG 5532)	3.0- 3.0	77049	LEC	1A	ARR	ARR	ARR		Johnson,C

Education

1040 Perspectives In Education	2.0- 2.0	77541	LEC	1A	TTh	08:00 - 08:50 am	CH	00103	
1104 Teacher Field Experience Prerequisite: Educ 1040.	2.0- 2.0	74994	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	74995	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	74996	LEC	1A	M	05:30 - 07:20 pm	CH	00103	Zalis,A
2102 Educational Psychology Prerequisite: Psych 1101. (Co-listed with Psych 2300)	3.0- 3.0	74993	LEC	1A	M	04:00 - 06:30 pm	BCH	00124	Spooner,P
3215 Teaching of Reading in Elementary and Middle School Prerequisite: Educ 1040.	3.0- 3.0	77882	LEC	1A	TTh	02:00 - 03:15 pm	CH	00103	Schwartz,M
3216 Teaching Reading in Content Area	3.0- 3.0	75838	LEC	1A	TTh	09:30 - 10:45 am	H-SS	00102	Long,D
3221 Teaching Math in Elementary and Middle Schools Prerequisite: Math 1120 or Math 1140. (Co-listed with Math 3921)	3.0- 3.0	77883	LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00106	Schwartz,M
3340 Current Issues In Educ:Performance Based Assessment, Intermediate	3.0- 3.0	77544	LEC	1A	T	04:00 - 06:30 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	74997	LEC	1A	F	08:00 - 01:00 pm	CH	00214	Carter,K
4299 Student Teaching Prerequisites: Professional standing and arrangements made previous semester.	12.0-12.0	74998	LEC	1A	ARR	ARR	ARR		Carter,K
4310 Psychology Of The Exceptional Child Prerequisite: Psych 1101. (Co-listed with Psych 4310)	3.0- 3.0	76660	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00103	Krueger,M

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	76877	LEC	1A	MWF	08:00 - 08:50 am	EECH	00104	Swift,T	
		3.0- 3.0	74999	LEC	1B	MWF	09:00 - 09:50 am	EECH	00104	Wu,C	
		3.0- 3.0	75000	LEC	1C	MWF	10:00 - 10:50 am	EECH	00104	Swift,T	
		3.0- 3.0	75001	LEC	1D	TTh	11:00 - 12:15 pm	EECH	00101	Shrestha,B	
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	75002	LAB	3A	M	06:10 - 08:00 pm	EECH	00203	Swift,T	
										Communication Emphasized	
		1.0- 1.0	75733	LAB	3B	T	08:00 - 09:50 am	EECH	00203	Swift,T	
											Communication Emphasized
		1.0- 1.0	75003	LAB	3C	T	10:00 - 11:50 am	EECH	00203	Swift,T	
											Communication Emphasized
		1.0- 1.0	75004	LAB	3D	T	02:30 - 04:20 pm	EECH	00203	Swift,T	
											Communication Emphasized
		1.0- 1.0	75005	LAB	3E	W	01:00 - 02:50 pm	EECH	00203	Swift,T	
											Communication Emphasized
		1.0- 1.0	75006	LAB	3F	W	03:00 - 04:50 pm	EECH	00203	Swift,T	
											Communication Emphasized
		1.0- 1.0	75007	LAB	3H	Th	02:30 - 04:20 pm	EECH	00203	Swift,T	
											Communication Emphasized
1.0- 1.0	75928	LAB	3J	Th	06:10 - 08:00 pm	EECH	00203	Swift,T			
									Communication Emphasized		
1.0- 1.0	76352	LAB	3K	Th	10:00 - 11:50 am	EECH	00203	Swift,T			
									Communication Emphasized		
1.0- 1.0	77305	LAB	3L	T	08:10 - 10:00 pm	EECH	00203	Swift,T			
									Communication Emphasized		
1.0- 1.0	77306	LAB	3M	W	08:10 - 10:00 pm	EECH	00203	Swift,T			
									Communication Emphasized		
1.0- 1.0	77340	LAB	3N	Th	12:30 - 02:20 pm	EECH	00203	Swift,T			
									Communication Emphasized		
2120	Circuits II	3.0- 3.0	75009	LEC	1B	WF	09:00 - 09:50 am	EECH	00102	Kaur,A	
										On-line instruction to be arranged on Mondays.	
										LEC 1B ARR ARR ARR	
										On-line instruction to be arranged on Mondays.	
3.0- 3.0	75010	LEC	1C	WF	01:00 - 01:50 pm	EECH	00102	Shrestha,B			
									Instruction to be arranged on Mondays		
									LEC 1C ARR ARR ARR		
									Instruction to be arranged on Mondays		
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	75981	LEC	1A	MWF	10:00 - 10:50 am	EECH	00101	Wu,C	
		3.0- 3.0	76064	LEC	1B	TTh	11:00 - 12:15 pm	EECH	00102	Watkins,S	
		3.0- 3.0	76065	LEC	1C	TTh	02:00 - 03:15 pm	BCH	00315	Watkins,S	
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.	1.0- 1.0	75982	LAB	3A	M	01:00 - 02:50 pm	EECH	00203	Watkins,S	
		1.0- 1.0	76029	LAB	3B	M	03:00 - 04:50 pm	EECH	00203	Watkins,S	
		1.0- 1.0	76066	LAB	3C	T	06:10 - 08:00 pm	EECH	00203	Watkins,S	
		1.0- 1.0	76067	LAB	3D						CANCELLED
		1.0- 1.0	76068	LAB	3E	W	06:10 - 08:00 pm	EECH	00203	Watkins,S	
		1.0- 1.0	76069	LAB	3F	F	01:00 - 02:50 pm	EECH	00203	Watkins,S	
		1.0- 1.0	76477	LAB	3G	F	03:00 - 04:50 pm	EECH	00203	Watkins,S	
		1.0- 1.0	77513	LAB	3H						CANCELLED
		1.0- 1.0	77514	LAB	3J						CANCELLED
		1.0- 1.0	77679	LAB	3K	Th	08:00 - 09:50 am	EECH	00203	Watkins,S	
2800	Electrical Circuits Prerequisites: Math 3304 or 3329; Physics 2135.	3.0- 3.0	75023	LEC	1A	MWF	11:00 - 11:50 am	EECH	00G31	Kaur,A	
		3.0- 3.0	75967	LEC	1B	MWF	01:00 - 01:50 pm	EMGT	00103	Kaur,A	
3001	Special Topics Prerequisites: A grade of "C" or better in Elec Eng 2120, Math 3108, and Math 3304; passing the Elec Eng Advancement Exam II. (Co-listed with COMP ENG 3001)	3.0- 3.0	78116	LEC	1A	TTh	09:30 - 10:45 am	EECH	00112	Sarangapani,J	
										Intelligent Robotics	

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	75012	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	76579 75019	LEC LEC	1A 1B	MWF MWF	09:00 - 09:50 am 01:00 - 01:50 pm	LIB EECH	000G14 00101	Odun-Ayo,T
3101 Electronics I Laboratory	1.0- 1.0	77936	LAB	3A	M	01:00 - 02:50 pm	EECH	00204	Khilkevich,V
						Communication Emphasized			
	1.0- 1.0	75021	LAB	3B	M	03:00 - 04:50 pm	EECH	00204	Khilkevich,V
						Communication Emphasized			
	1.0- 1.0	77213	LAB	3C	M	06:10 - 08:00 pm	EECH	00204	Khilkevich,V
						Communication Emphasized			
	1.0- 1.0	75022	LAB	3D	T	12:30 - 02:20 pm	EECH	00204	Khilkevich,V
						Communication Emphasized			
	1.0- 1.0	76580	LAB	3E	T	02:30 - 04:20 pm	EECH	00204	Khilkevich,V
						Communication Emphasized			
	1.0- 1.0	77515	LAB	3F	T	06:10 - 08:00 pm	EECH	00204	Khilkevich,V
						Communication Emphasized			
	1.0- 1.0	76073	LAB	3G		CANCELLED			
	1.0- 1.0	76074	LAB	3H	Th	06:00 - 07:50 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	75020	LEC	1A	MWF	02:00 - 02:50 pm	EECH	00103	Pommerenke,D
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	76360	LEC	1B	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.	3.0- 3.0 3.0- 3.0	77214 77555	LEC LEC	1A 1B	TTh TTh	08:00 - 09:15 am 02:00 - 03:15 pm	EECH BCH	00102 00121	Shrestha,B 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 1.0- 1.0	76878 77216 77217 76879 77215 77677	LAB LAB LAB LAB LAB LAB	3A 3B 3C 3D 3E 3F	M Th F T M F	01:00 - 02:50 pm 02:30 - 04:20 pm 01:00 - 02:50 pm 05:00 - 06:50 pm 03:00 - 04:50 pm 05:00 - 06:50 pm	EECH EECH EECH EECH EECH EECH	00205 00205 00205 00205 00205 00205	Modares,H Modares,H Modares,H Modares,H Modares,H Modares,H
3340 Basic Programmable Logic Controllers Prerequisites: Elec Eng 2120 and Comp Eng 2210 each with a grade of "C" or better.	3.0- 3.0 3.0- 3.0 3.0- 3.0 3.0- 3.0 3.0- 3.0 3.0- 3.0	75960 76286 75018 76573 77375 76070	LEC LAB LAB LAB LAB LEC	1A 3A 3B 3C 3D 3E	TTh T T W Th ARR	08:00 - 09:15 am 12:00 - 01:50 pm 02:30 - 04:20 pm 01:00 - 02:50 pm 02:30 - 04:20 pm ARR	BERTELS EECH EECH EECH EECH EECH	00B12A 00G22 00G22 00G22 00G22 00G22	Erickson,K Erickson,K Erickson,K Erickson,K Erickson,K Erickson,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	76070	LEC	1A	MWF	09:00 - 09:50 am	EECH	00G31	Swift,T
3411 Discrete Linear Systems Laboratory	1.0- 1.0 1.0- 1.0 1.0- 1.0 1.0- 1.0 1.0- 1.0 1.0- 1.0 1.0- 1.0 1.0- 1.0	77938 76071 77939 77940 77941 77942 77943 76072 77944	LAB LAB LAB LAB LAB LAB LAB LAB LAB	3A 3B 3C 3D 3E 3F 3G 3H 3J		CANCELLED T 10:00 - 11:50 am CANCELLED CANCELLED W 03:00 - 04:50 pm CANCELLED CANCELLED CANCELLED CANCELLED		00106 00106	Swift,T Swift,T

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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	77218	LEC	1A	MWF	11:00 - 11:50 am	EECH	00103	Kosbar,K
	3.0- 3.0	77719	LEC	1B	MWF	08:00 - 08:50 am	EECH	00103	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	77219	LAB	3A	M	05:00 - 06:50 pm	EECH	00205	Kosbar,K
	1.0- 1.0	77220	LAB	3B	W	05:00 - 06:50 pm	EECH	00205	Kosbar,K
	1.0- 1.0	77221	LAB	3C	Th	05:00 - 06:50 pm	EECH	00205	Kosbar,K
	1.0- 1.0	77678	LAB	3D	W	03:00 - 04:50 pm	EECH	00205	Kosbar,K
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	75013	LEC	1A	TTh	11:00 - 12:15 pm	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	77516	LAB	3A	T	12:30 - 02:20 pm	EECH	00G12	Kimball,J
	1.0- 1.0	75015	LAB	3B	W	10:00 - 11:50 am	EECH	00G12	Kimball,J
	1.0- 1.0	75983	LAB	3C	W	01:00 - 02:50 pm	EECH	00G12	Kimball,J
	1.0- 1.0	77517	LAB	3D	CANCELLED				
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.	3.0- 3.0	75014	LEC	1A	MWF	08:00 - 08:50 am	EECH	00101	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. Labs will also meet in EECH 106 when directed to by instructor.	1.0- 1.0	75016	LAB	3A	M	01:00 - 02:50 pm	EECH	00G12	Bo,R
	1.0- 1.0	76284	LAB	3B	T	02:30 - 04:20 pm	EECH	00G12	Bo,R
	1.0- 1.0	76285	LAB	3C	Th	12:30 - 02:20 pm	EECH	00G12	Bo,R
	1.0- 1.0	77945	LAB	3D	CANCELLED				
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	76128	LEC	1A	TTh	08:00 - 09:15 am	FUL	00227	Donnell,K
			LEC	1A	ARR	ARR	ARR		
4000 Special Problems	0.0- 6.0	75024	IND	6A	ARR	ARR	ARR		Acar,L
	0.0- 6.0	75025	IND	6B	ARR	ARR	ARR		Pommerenke,D
	0.0- 6.0	75026	IND	6C	ARR	ARR	ARR		Watkins,S
	0.0- 6.0	75027	IND	6D	ARR	ARR	ARR		Wu,C
	0.0- 6.0	75028	IND	6E	ARR	ARR	ARR		Zoughi,R
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.	1.0- 1.0		RSD	2A	M	12:00 - 12:50 pm	EMGT	00103	Woodley,R
	1.0- 1.0		RSD	2B	M	12:00 - 12:50 pm	EMGT	00103	Woodley,R
	1.0- 1.0	75046	LAB	3A	M	03:00 - 03:50 pm	TMH	00295	Woodley,R
	1.0- 1.0	75048	LAB	3B	W	03:00 - 03:50 pm	EECH	00102	Zawodniok,M
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	75049	LAB	3A	MW	03:00 - 04:50 pm	EECH	00G31	Ferguson,I
	3.0- 3.0	75050	LAB	3B	TTh	03:30 - 05:20 pm	EECH	00G31	Woodley,R
4099 Undergraduate Research	0.0- 6.0	75035	IND	6A	ARR	ARR	ARR		Acar,L
	0.0- 6.0	75036	IND	6B	ARR	ARR	ARR		Crow,M
	0.0- 6.0	75037	IND	6C	ARR	ARR	ARR		Donnell,K
	0.0- 6.0	75038	IND	6D	ARR	ARR	ARR		Drewniak,J
	0.0- 6.0	75039	IND	6E	ARR	ARR	ARR		Erickson,K
	0.0- 6.0	75040	IND	6F	ARR	ARR	ARR		Ferdowsi,M
	0.0- 6.0	75041	IND	6G	ARR	ARR	ARR		Kimball,J
	0.0- 6.0	75042	IND	6H	ARR	ARR	ARR		Kosbar,K
	0.0- 6.0	75043	IND	6J	ARR	ARR	ARR		Pommerenke,D
	0.0- 6.0	75044	IND	6K	ARR	ARR	ARR		Sedighsarvestani,S
	0.0- 6.0	75867	IND	6L	ARR	ARR	ARR		Shamsi,P

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	75881	IND	6M	ARR	ARR	ARR		Shrestha,B
	0.0- 6.0	75905	IND	6N	ARR	ARR	ARR		Watkins,S
	0.0- 6.0	76367	IND	6P	ARR	ARR	ARR		Wu,C
	0.0- 6.0	76441	IND	6Q	ARR	ARR	ARR		Zheng,Y
	0.0- 6.0	77300	IND	6R	ARR	ARR	ARR		Zoughi,R
4380 Practicum in Automation Engineering Prerequisites: Elec Eng 3340.	3.0- 3.0	78280	LAB	3A	ARR	ARR	ARR		Erickson,K
5000 Special Problems	0.0- 6.0	77871	IND	6A	ARR	ARR	ARR		Pommerenke,D
5001 Special Topics Prerequisites: Elec Eng 2200 or equivalent or graduate standing.	3.0- 3.0	78161	LEC	1A	Th	04:00 - 06:30 pm	EECH	00239	Ferguson,I
									LEDs for Illumination
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	75090	IND	6A	ARR	ARR	ARR		
5099 Special Research And Thesis Prerequisite: Consent of instructor.	0.0-15.0	75062	IND	6A	ARR	ARR	ARR		Acar,L
	0.0-15.0	75063	IND	6B	ARR	ARR	ARR		Beetner,D
	0.0-15.0	75064	IND	6C	ARR	ARR	ARR		Cetinkaya,E
	0.0-15.0	75065	IND	6D	ARR	ARR	ARR		Crow,M
	0.0-15.0	75710	IND	6E	ARR	ARR	ARR		Donnell,K
	0.0-15.0	75066	IND	6F	ARR	ARR	ARR		Drewniak,J
	0.0-15.0	75067	IND	6G	ARR	ARR	ARR		Erickson,K
	0.0-15.0	75068	IND	6H	ARR	ARR	ARR		Fan,J
	0.0-15.0	75069	IND	6J	ARR	ARR	ARR		Ferdowsi,M
	0.0-15.0	75070	IND	6K	ARR	ARR	ARR		Huang,J
	0.0-15.0	75763	IND	6L	ARR	ARR	ARR		Hwang,C
	0.0-15.0	75071	IND	6M	ARR	ARR	ARR		Khilkevich,V
	0.0-15.0	75072	IND	6N	ARR	ARR	ARR		Kim,C
	0.0-15.0	75073	IND	6P	ARR	ARR	ARR		Kimball,J
	0.0-15.0	75075	IND	6Q	ARR	ARR	ARR		Kosbar,K
	0.0-15.0	75076	IND	6R	ARR	ARR	ARR		Modares,H
	0.0-15.0	75074	IND	6T	ARR	ARR	ARR		Pommerenke,D
	0.0-15.0	75077	IND	6U	ARR	ARR	ARR		Sarangapani,J
	0.0-15.0	75078	IND	6V	ARR	ARR	ARR		Sedighsarvestani,S
	0.0-15.0	75079	IND	6W	ARR	ARR	ARR		Shamsi,P
	0.0-15.0	75080	IND	6X	ARR	ARR	ARR		Stanley,R
	0.0-15.0	75081	IND	6Y	ARR	ARR	ARR		Watkins,S
	0.0-15.0	75712	IND	6Z	ARR	ARR	ARR		Wu,C
	0.0-15.0	75082	IND	6AA	ARR	ARR	ARR		Wunsch,D
	0.0-15.0	75083	IND	6BB	ARR	ARR	ARR		Zawodniok,M
	0.0-15.0	75084	IND	6CC	ARR	ARR	ARR		Zhang, Y
	0.0-15.0	75085	IND	6DD	ARR	ARR	ARR		Zheng, Y
	0.0-15.0	75086	IND	6EE	ARR	ARR	ARR		Zoughi,R
5140 High-Frequency Amplifiers Prerequisites: Elec Eng 3120, 3600.	3.0- 3.0	77946	LEC	1A	MWF	02:00 - 02:50 pm	BERTELS	00B12B	Donnell,K
5200 Classical Optics Prerequisites: Math 2222 and Physics 2135 or 2111. (Co-listed with Physics 4503)	3.0- 3.0	78163	LEC	1A	MWF	09:00 - 09:50 am	PHYS	00127	Yamilov,A
5310 Computational Intelligence Prerequisite: Graduate Standing. (Co-listed with Comp Eng 5310 and Sys Eng 5211)	3.0- 3.0	75839	LEC	1A	W	04:00 - 06:30 pm	TMH	00260	Corns,S
5340 Advanced PLC Prerequisites: Elec Eng 3340.	3.0- 3.0		LEC	1A	MW	09:00 - 09:50 am	BCH	00213	Erickson,K
	3.0- 3.0	77874	LAB	3A	M	01:00 - 02:50 pm	EECH	00G22	Erickson,K
	3.0- 3.0	77875	LAB	3B	W	03:00 - 04:50 pm	EECH	00G22	Erickson,K
	3.0- 3.0	77876	LAB	3C	Th	12:00 - 01:50 pm	EECH	00G22	Erickson,K
	3.0- 3.0	77877	LAB	3D	ARR	ARR	ARR		Erickson,K
5380 Autonomous Mobile Robots Prerequisites: Elec Eng 3320 or equivalent and Stat 3117 or equivalent.	3.0- 3.0	76551	LEC	1A	Th	04:00 - 06:30 pm	LIB	000G14	Dierks,T
5400 Digital Signal Processing II Prerequisites: Elec Eng 3410 or Elec Eng 3420.	3.0- 3.0	75032	LEC	1A	W	04:00 - 06:30 pm	EECH	00103	Zheng, Y

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5430 Wireless Networks Prerequisites: Hardware competency, Elec Eng 3420 or Comp Eng 3150 and graduate standing. (Co-listed with Comp Eng 5430 and Sys Eng 5323)	3.0- 3.0 3.0- 3.0		LEC LAB	1A 3A	MW F	08:00 - 08:50 am 08:00 - 08:50 am	CS CS	00209 00209	Zawodniok,M Zawodniok,M
5440 Stochastic Signal Analysis I Prerequisites: Math 3304 and Elec Eng 2120.	3.0- 3.0	77949	LEC	1A	MWF	10:00 - 10:50 am	EECH	00111	Zhang, Y
5510 Electric-Drive Vehicles Prerequisite: Senior standing and Physics 2135.	3.0- 3.0	76581	LEC	1A	TTh	09:30 - 10:45 am	EECH	00111	Ferdowski,M
			Field Trip Required						
5520 Power Electronics Prerequisite: Elec Eng 3100.	3.0- 3.0	76478	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00260	Ferdowski,M
5540 Power Systems Engineering Prerequisite: Elec Eng 3540.	3.0- 3.0	75942	LEC	1A	MWF	02:00 - 02:50 pm	BCH	00213	Crow,M
5600 Interference Control in Electronic Systems Prerequisites: Elec Eng 3400 and 3600.	3.0- 3.0	75033	LEC	1A	MWF	08:00 - 08:50 am	FUL	00107A	Beetner,D
5640 Antennas and Propagation Prerequisite: Elec Eng 3600.	3.0- 3.0	75034	LEC	1A	TTh	09:30 - 10:45 am	EECH	00104	Zoughi,R
5660 Microwave Principles For Mixed-Signal Design Prerequisite: Elec Eng 3600.	3.0- 3.0	77950	LEC	1A	MWF	01:00 - 01:50 pm	EECH	00103	Drewniak,J
6000 Special Problems	0.0- 6.0	75051	IND	6A	ARR	ARR	ARR		Crow,M
	0.0- 6.0	75052	IND	6B	ARR	ARR	ARR		Donnell,K
	0.0- 6.0	75766	IND	6C	ARR	ARR	ARR		Drewniak,J
	0.0- 6.0	75053	IND	6D	ARR	ARR	ARR		Fan,J
	0.0- 6.0	75054	IND	6E	ARR	ARR	ARR		Ferdowski,M
	0.0- 6.0	75057	IND	6F	ARR	ARR	ARR		Sarangapani,J
	0.0- 6.0	75055	IND	6G	ARR	ARR	ARR		Shamsi,P
	0.0- 6.0	75056	IND	6H	ARR	ARR	ARR		Stanley,R
	0.0- 6.0	75058	IND	6J	ARR	ARR	ARR		Watkins,S
	0.0- 6.0	75059	IND	6K	ARR	ARR	ARR		Wu,C
	0.0- 6.0	75060	IND	6L	ARR	ARR	ARR		Zoughi,R
6040 Oral Examination	0.0- 0.0	76774	IND	6A	ARR	ARR	ARR		
6050 Continuous Registration Doctoral students only. Graduate office permission required.	1.0- 1.0	75091	IND	6A	ARR	ARR	ARR		Kim,C
6085 Internship DE students only.	0.0-15.0	75089	IND	6A	ARR	ARR	ARR		
6099 Special Research And Thesis Prerequisite: Consent of instructor.	0.0-15.0	76745	IND	6A	ARR	ARR	ARR		Acar,L
	0.0-15.0	76746	IND	6B	ARR	ARR	ARR		Beetner,D
	0.0-15.0	76747	IND	6C	ARR	ARR	ARR		Cetinkaya,E
	0.0-15.0	76748	IND	6D	ARR	ARR	ARR		Crow,M
	0.0-15.0	76749	IND	6E	ARR	ARR	ARR		Donnell,K
	0.0-15.0	76750	IND	6F	ARR	ARR	ARR		Drewniak,J
	0.0-15.0	76751	IND	6G	ARR	ARR	ARR		Erickson,K
	0.0-15.0	76752	IND	6H	ARR	ARR	ARR		Fan,J
	0.0-15.0	76753	IND	6J	ARR	ARR	ARR		Ferdowski,M
	0.0-15.0	76754	IND	6K	ARR	ARR	ARR		Ferguson,I
	0.0-15.0	76755	IND	6L	ARR	ARR	ARR		Huang,J
	0.0-15.0	76756	IND	6M	ARR	ARR	ARR		Hwang,C
	0.0-15.0	76757	IND	6N	ARR	ARR	ARR		Khilkevich,V
	0.0-15.0	76758	IND	6P	ARR	ARR	ARR		Kim,C
	0.0-15.0	76759	IND	6Q	ARR	ARR	ARR		Kimball,J
	0.0-15.0	76760	IND	6R	ARR	ARR	ARR		Kosbar,K
	0.0-15.0	76761	IND	6T	ARR	ARR	ARR		Modares,H
	0.0-15.0	76762	IND	6U	ARR	ARR	ARR		Pommerenke,D
	0.0-15.0	76763	IND	6V	ARR	ARR	ARR		Sarangapani,J
	0.0-15.0	76764	IND	6W	ARR	ARR	ARR		Sedighsarvestani,S
	0.0-15.0	76765	IND	6X	ARR	ARR	ARR		Shamsi,P
	0.0-15.0	76766	IND	6Y	ARR	ARR	ARR		Stanley,R
	0.0-15.0	76767	IND	6Z	ARR	ARR	ARR		Watkins,S
	0.0-15.0	76768	IND	6AA	ARR	ARR	ARR		Wu,C
	0.0-15.0	76769	IND	6BB	ARR	ARR	ARR		Wunsch,D
	0.0-15.0	76770	IND	6CC	ARR	ARR	ARR		Zawodniok,M

CATALOG #	COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
		0.0-15.0	76771	IND	6DD	ARR	ARR	ARR		Zheng,Y
		0.0-15.0	76772	IND	6EE	ARR	ARR	ARR		Zoughi,R
6200	Electromagnetic Optics Prerequisite: Elec Eng 3600 or Physics 4211.	3.0- 3.0	78243	LEC	1A	MWF	09:00 - 09:50 am	EECH	00112	Huang,J
6260	Integrated Microsystems Engineering Prerequisite: Graduate standing.	3.0- 3.0		LEC	1A	MW	03:00 - 03:50 pm	EECH	00112	Kim,C
		3.0- 3.0	77953	LAB	3A	F	03:00 - 03:50 pm	ARR		Kim,C
6300	Linear Control Systems Prerequisite: Elec Eng 3320.	3.0- 3.0	75061	LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00B12B	Acar,L
6320	Nonlinear Control Systems Prerequisite: Elec Eng 6300.	3.0- 3.0	77954	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00317	Sarangapani,J
6330	Robust Control Systems Prerequisite: Elec Eng 6300.	3.0- 3.0	77955	LEC	1A	TTh	02:00 - 03:15 pm	EECH	00239	Modares,H
6410	Information Theory And Coding Prerequisites: Elec Eng 5420 or Elec Eng 5440 or Stat 5643.	3.0- 3.0	77957	LEC	1A	TTh	02:00 - 03:15 pm	IDE	00105	
6500	Advanced Theory Of Electric Machines Prerequisite: Elec Eng 3500.	3.0- 3.0	77958	LEC	1A	MWF	12:00 - 12:50 pm	EECH	00239	Shamsi,P
6560	Power System Protection Prerequisite: Elec Eng 5560 and 5540	3.0- 3.0	77959	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00260	Nauert,P
6630	Computational Electromagnetics Prerequisite: Elec Eng 3600.	3.0- 3.0	77964	LEC	1A	TTh	11:00 - 12:15 pm	EECH	00239	Fan,J

Engineering Management

1100	Practical Concepts for Technical Managers	1.0- 1.0	76018	LEC	1A	ARR	ARR	ARR		Grasman,K
		1.0- 1.0	76019	LEC	1B	ARR	ARR	ARR		Grasman,K
1210	Economic Analysis of Engineering Projects Prerequisites: Math 1214.	2.0- 2.0	76104	LEC	1A	ARR	ARR	ARR		Grasman,K
										No required classroom meetings other than common exams scheduled for September 27th and November 1st from 6:00-8:00pm. See 'Notes' for Evening Exams
		2.0- 2.0	76001	LEC	1B	TTh	01:00 - 01:50 pm	ARR		Grasman,K
										Common exams scheduled for September 27th and November 1st from 6:00-8:00pm. See 'Notes' for Evening Exams
2002	Cooperative Engineering Training	0.0- 6.0	75092	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	76341	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00103	Long,S
2211	Engineering Accounting and Finance Prerequisite: Eng Mgt 1210, or understanding of engineering economic principles.	3.0- 3.0	76079	LEC	1A	MWF	02:00 - 02:50 pm	IDE	00206	Hodges,S
2310	Introduction to System Engineering Prerequisites: Math 1208 or Math 1214.	3.0- 3.0	76471	LEC	1A	TTh	08:00 - 09:15 am	EMGT	00102	Corns,S
3310	Operations and Production Management Prerequisites: Eng Mgt 2110.	3.0- 3.0	75096	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00120	Sun,Z
3320	Introduction to Project Management Prerequisites: Junior or above standing.	3.0- 3.0	75920	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00256	Schuman,J
3510	Marketing Management Prerequisites: Preceded or accompanied by Eng Mgt 2110.	3.0- 3.0	75094	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00295	Hodges,S
4000	Special Problems	0.0- 6.0	76541	IND	6A	ARR	ARR	ARR		Raper,S
4099	Undergraduate Research	0.0- 6.0	75103	IND	6A	ARR	ARR	ARR		Raper,S
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	75095	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00102	Raper,S
4330	Human Factors Prerequisite: Psych 1101. (Co-listed with Psych 4710)	3.0- 3.0	75098	LEC	1A	TTh	09:30 - 10:45 am	TMH	00295	Murray,S
4710	Quality Prerequisites: Stat 3115 or Stat 3117.	3.0- 3.0	76020	LEC	1A	TTh	02:00 - 03:15 pm	EMGT	00102	Cudney,E

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4907 Engineering Management Senior Design Prerequisites: Preceded or accompanied by Eng Mgt 4110.	3.0- 3.0	76111	LEC	1A	MWF	12:00 - 12:50 pm	EMGT	00102	Raper,S
5001 Special Topics Prerequisite: Senior or graduate standing. (Co-listed with Econ 5001)	3.0- 3.0	78210	LEC	1A	T	04:00 - 06:30 pm	IDE	00202	Experiential Innovation
5110 Managerial Decision Making Prerequisite: Senior or graduate standing.	3.0- 3.0	75099	LEC	1A	W	07:00 - 09:30 pm	TMH	00260	Spurlock,D
5111 Management for Engineers and Scientists Prerequisite: Graduate standing.	3.0- 3.0	75908	LEC	1A	W	04:00 - 06:30 pm	BCH	00121	Spurlock,D
5210 Economic Decision Analysis Prerequisite: Graduate students without previous course in engineering economy because of partial overlap.	3.0- 3.0	75097	LEC	1A	W	04:00 - 06:30 pm	EECH	00239	Schuman,J
5316 Safety Engineering Management Prerequisite: Senior or graduate standing.	3.0- 3.0	75846	LEC	1A	Th	07:00 - 09:30 pm	TMH	00260	Schmidt,M
5320 Project Management Prerequisite: Graduate Standing.	3.0- 3.0	75101	LEC	1A	T	04:00 - 06:30 pm	EECH	00239	Berry,R
5330 Advanced Human Factors (Co-listed with PSYCH 5710)	3.0- 3.0	76668	LEC	1A	T	07:00 - 09:30 pm	H-SS	00105	Baker,D
5410 Industrial System Simulation Prerequisite: Stat 3115 or Stat 3117.	3.0- 3.0	76083	LEC	1A	TTh	03:30 - 04:45 pm	MCNutt	234	Gosavi,A
5412 Operations Management Science Prerequisites: Graduate standing.	3.0- 3.0	75770	LEC	1A	M	07:00 - 09:30 pm	CS	00209	Konur,D
5414 Introduction To Operations Research Prerequisite: Stat 3115 or Stat 3117.	3.0- 3.0	75102	LEC	1A	MWF	10:00 - 10:50 am	FUL	00220	Guardiola,I
5511 Technical Entrepreneurship Prerequisite: Senior or graduate standing.	3.0- 3.0	75100	LEC	1A	T	07:00 - 09:30 pm	EECH	00239	Bade,J
5514 Patent Law Prerequisite: Senior or graduate standing. (Co-listed with Chem Eng 4300)	3.0- 3.0	75845	LEC	1A	T	07:00 - 09:30 pm	BCH	00213	Canis,R
5710 Six Sigma Prerequisite: Graduate standing.	3.0- 3.0	75764	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00239	Cudney,E
5711 Total Quality Management Prerequisite: Senior or graduate standing.	3.0- 3.0	75861	LEC	1A	W	07:00 - 09:30 pm	LIB	000G14	Bade,J
5713 Management And Methods In Reliability Prerequisite: Stat 3115, 3117, or 5643.	3.0- 3.0	78061	LEC	1A	TTh	07:00 - 09:30 pm	BERTELS	00B12A	Gosavi,A
6001 Special Topics Prerequisites: An undergraduate calculus based statistics course and one of Eng Mgt 6212, Sys Eng 6612, Eng Mgt 6213, or Sys Eng 6613.	3.0- 3.0	77901	LEC	1A	T	04:00 - 06:30 pm	BERTELS	00B12A	Qin,R Financial Data Analysis
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	75107	IND	6A	ARR	ARR	ARR		Long,S
6050 Continuous Registration Doctoral students only. Graduate office permission required.	1.0- 1.0	75108	IND	6A	ARR	ARR	ARR		Long,S
6099 Research	0.0-15.0	76682	IND	6A	ARR	ARR	ARR		Corns,S
	0.0-15.0	76684	IND	6B	ARR	ARR	ARR		Cudney,E
	0.0-15.0	76685	IND	6C	ARR	ARR	ARR		Dagli,C
	0.0-15.0	76686	IND	6D	ARR	ARR	ARR		Enke,D
	0.0-15.0	76687	IND	6E	ARR	ARR	ARR		Gosavi,A
	0.0-15.0	76688	IND	6F	ARR	ARR	ARR		Grantham,K
	0.0-15.0	76689	IND	6G	ARR	ARR	ARR		Guardiola,I
	0.0-15.0	76690	IND	6H	ARR	ARR	ARR		Konur,D
	0.0-15.0	76691	IND	6J	ARR	ARR	ARR		Long,S
	0.0-15.0	76692	IND	6K	ARR	ARR	ARR		Murray,S
	0.0-15.0	76693	IND	6L	ARR	ARR	ARR		Qin,R
	0.0-15.0	76694	IND	6M	ARR	ARR	ARR		Raper,S

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6112 Leadership for Engineers Prerequisite: Eng Mgt 5110 or Psych 4602. (Co-listed with Psych 6611)	0.0-15.0 3.0- 3.0	77733 76060	IND LEC	6N 1A	ARR ARR	ARR ARR	ARR ARR		Sun,Z Daughton,W
6211 Advanced Financial Management Prerequisite: Eng Mgt 1210 or 5210.	3.0- 3.0	76293	LEC	1A	Th	04:00 - 06:30 pm	TMH	00260	Qin,R
6212 Investment Prerequisite: Eng Mgt 1210 or 308. (Co-listed with Sys Eng 6612)	3.0- 3.0	75106	LEC	1A	W	04:00 - 06:30 pm	CS	00209	Enke,D
6213 Financial Engineering Prerequisites: Eng Mgt 1210 or 5210. (Co-listed with Sys Eng 6613)	3.0- 3.0	75871	LEC	1A	M	04:00 - 06:30 pm	LIB	000G14	Enke,D
6322 Case Studies in Project Management Prerequisite: Eng Mgt 5320 or equivalent.	3.0- 3.0	75953	LEC	1A	W	07:00 - 09:30 pm	EECH	00239	Hodges,S
6410 Markov Decision Processes Prerequisite: Graduate standing in background of probability or statistics. (Co-listed with Comp Eng 6310, Mech Eng 6447, Aero Eng 6447 and Comp Sci 6202)	3.0- 3.0	76098	LEC	1A	M	04:00 - 06:30 pm	TMH	00260	Wunsch,D
6412 Mathematical Programming Prerequisites: Stat 3113 or equivalent and (Eng Mgt 5414 or Math 3103 or Math 3108) (Co-listed with Math 6665)	3.0- 3.0	77902	LEC	1A	CANCELLED				
6611 Lean Systems Prerequisite: Graduate standing.	3.0- 3.0	75105	LEC	1A	M	07:00 - 09:30 pm	BERTELS	00B12B	Lin,H

English

1120 Exposition And Argumentation	3.0- 3.0	75109	LEC	1A	MWF	08:00 - 08:50 am	H-SS	00203	Arthur,R
	3.0- 3.0	75111	LEC	1C	MWF	09:00 - 09:50 am	EMGT	00106	Goldberg,M
	3.0- 3.0	75112	LEC	1D	MWF	09:00 - 09:50 am	H-SS	00204	Arthur,R
	3.0- 3.0	75113	LEC	1E	MWF	10:00 - 10:50 am	EMGT	00106	Goldberg,M
	3.0- 3.0	75114	LEC	1F	MWF	10:00 - 10:50 am	MCNT	00245	Dereberry,M
	3.0- 3.0	75115	LEC	1G	MWF	11:00 - 11:50 am	EMGT	00102	Goldberg,M
	3.0- 3.0	75116	LEC	1H	MWF	11:00 - 11:50 am	CS	00206	
	3.0- 3.0	75117	LEC	1J	MWF	01:00 - 01:50 pm	TMH	00251	Dereberry,M
	3.0- 3.0	75740	LEC	1K	MWF	01:00 - 01:50 pm	CS	00204	Gilstrap,M
	3.0- 3.0	76140	LEC	1L	MWF	02:00 - 02:50 pm	PHYS	00128	
	3.0- 3.0	76448	LEC	1M	MWF	02:00 - 02:50 pm	H-SS	000G8	Gilstrap,M
	3.0- 3.0	76133	LEC	1N	MWF	03:00 - 03:50 pm	PHYS	00128	Arthur,R
	3.0- 3.0	75118	LEC	1P	TTh	08:00 - 09:15 am	H-SS	00202	
	3.0- 3.0	75119	LEC	1Q	TTh	09:30 - 10:45 am	H-SS	00203	Young,B
	3.0- 3.0	75120	LEC	1R	TTh	09:30 - 10:45 am	H-SS	00103	Tate,K
	3.0- 3.0	75121	LEC	1T	TTh	11:00 - 12:15 pm	H-SS	00104	
	3.0- 3.0	75966	LEC	1U	TTh	12:30 - 01:45 pm	H-SS	00201	Wise,R
	3.0- 3.0	75961	LEC	1V	TTh	02:00 - 03:15 pm	H-SS	000G8	Tate,K
	3.0- 3.0	76141	LEC	1W	TTh	02:00 - 03:15 pm	H-SS	00203	Wise,R
	3.0- 3.0	76244	LEC	1X	TTh	03:30 - 04:45 pm	H-SS	00204	Wise,R
	3.0- 3.0	77076	LEC	1Y	ARR	ARR	ARR		Tate,K
	3.0- 3.0	77077	LEC	1Z	MWF	03:00 - 03:50 pm	H-SS	00101	
	3.0- 3.0	77078	LEC	1BB	MWF	12:00 - 12:50 pm	H-SS	00203	Ekstam,F
	3.0- 3.0	77079	LEC	1CC	TTh	09:30 - 10:45 am	NOR	00208	Quinn,J
	3.0- 3.0	77080	LEC	1DD	TTh	03:30 - 04:45 pm	H-SS	000G8	Young,B
	3.0- 3.0	77097	LEC	1EE	TTh	12:30 - 01:45 pm	H-SS	00203	Young,B
	3.0- 3.0	77297	LEC	1FF	TTh	05:00 - 06:15 pm	H-SS	000G7	Tran,T
	3.0- 3.0	77688	LEC	1GG	ARR	ARR	ARR		Chan,H
	3.0- 3.0	77694	LEC	1HH	ARR	ARR	ARR		Chan,H
1160 Writing And Research Prerequisite: English 1120.	3.0- 3.0	75122	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	00102	Larson,J
	3.0- 3.0	76439	LEC	1B	MWF	03:00 - 03:50 pm	H-SS	00102	Larson,J
	3.0- 3.0	76241	LEC	1C	MWF	11:00 - 11:50 am	H-SS	00102	Dereberry,M
	3.0- 3.0	76440	LEC	1D	MWF	01:00 - 01:50 pm	CSF	00114	Larson,J
	3.0- 3.0	75124	LEC	1E	TTh	11:00 - 12:15 pm	CS	00206	Schneider,R
	3.0- 3.0	75123	LEC	1F	TTh	09:30 - 10:45 am	H-SS	00202	Schneider,R
	3.0- 3.0	76195	LEC	1G	TTh	02:00 - 03:15 pm	CS	00206	Schneider,R
1170 Creative Writing Prerequisite: English 1120.	3.0- 3.0	77427	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	000G7	Goldberg,M

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4290 Texts And Contexts Prerequisites: English 1120 and a semester of college literature; junior standing.	3.0- 3.0	76860	LEC	1A	T	06:00 - 09:00 pm	H-SS	00101	Bryan,E
									Communication Intensive UM Shared Course-Primary
5571 Advanced Writing For Science & Engineering Prerequisites: English 3560 and 2560, or graduate standing.	3.0- 3.0	78065	LEC	1A	T	05:00 - 08:00 pm	TMH	00250	Hercula,S

Enterprise Resource Planning

2110 Introduction to Enterprise Resource Planning Prerequisite: IS&T 1750.	3.0- 3.0	75880	LEC	1A	MWF	11:00 - 11:50 am	TMH	00251	Chiu,Y
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Enterprise Resource Planning

4220 Introduction to Enterprise Decision Dashboard Prototyping Prerequisites: (ERP 2110 or ERP 5110) and one of ERP 5410, ERP 6444, or IS&T 6444.	3.0- 3.0	77303	LEC	1A	MWF	09:00 - 09:50 am	FUL	00107A	Lea,B
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Enterprise Resource Planning

4610 Customer Relationship Management in ERP Environment Prerequisite: ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	76609	LEC	1A	T	04:00 - 06:30 pm	FUL	00107A	Claybaugh,C
5110 Enterprise Resource Planning Systems Design and Implementation Prerequisites: Preceded or accompanied by ERP 2110; or Graduate Standing and computer programming knowledge.	3.0- 3.0	75738	LEC	1A	TTh	09:30 - 10:45 am	FUL	00107A	Claybaugh,C
5310 Supply Chain Management Systems in an ERP Environment Prerequisite: ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	76372	LEC	1A	M	04:00 - 06:30 pm	FUL	00107A	Lea,B
5410 Use of Business Intelligence Prerequisites: IS&T 3423 or equivalent; ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	76490	LEC	1A	TTh	11:00 - 12:15 pm	FUL	00107A	Yu,W

Enterprise Resource Planning

6220 Data Modeling & Visualization Prototyping for Enterprise Decision Dashboards Prerequisites: ERP 5110 and one of ERP 5410, ERP 6444 or IS&T 6444.	3.0- 3.0	77157	LEC	1A	MWF	09:00 - 09:50 am	FUL	00107A	Lea,B
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Enterprise Resource Planning

6610 Advanced Customer Relationship Management in ERP Environment Prerequisite: ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	76586	LEC	1A	T	04:00 - 06:30 pm	FUL	00107A	Claybaugh,C
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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	
	3.0- 3.0		LEC	1B	MW	11:00 - 11:50 am	BCH	00209	Wang,J
	3.0- 3.0	76057	LAB	3A1	M	01:00 - 03:50 pm	BCH	00209	
	3.0- 3.0	76184	LAB	3A2	T	01:00 - 03:50 pm	BCH	00209	
	3.0- 3.0	76433	LAB	3B1	W	01:00 - 03:50 pm	BCH	00209	Wang,J
3615 Water And Wastewater Engineering Prerequisites: Civ Eng 2601 and at least junior standing. (Co-listed with Civ Eng 3615)	3.0- 3.0	76434	LAB	3B2	Th	01:00 - 03:50 pm	BCH	00209	Wang,J
	3.0- 3.0	75924	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00209	Wang,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
4010 Senior Seminar: Engineering In A Global Society Prerequisite: Senior standing. (Co-listed with Civ Eng and Arch Eng 4010)	1.0- 1.0	74887	RSD	2A	W	12:00 - 12:50 pm	BCH	00120	Burken,J	
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	75925	LEC	1A	M	01:00 - 03:50 pm	BCH	00123		
			LEC	1A	M	01:00 - 03:50 pm	BCH	00120		
			LEC	1A	M	01:00 - 03:50 pm	BCH	00122	Showalter,W	
4099 Undergraduate Research	0.0- 6.0	76149	IND	6A	ARR	ARR	ARR		Burken,J	
	0.0- 6.0	76185	IND	6B	ARR	ARR	ARR		Fitch,M	
	0.0- 6.0	76186	IND	6C	ARR	ARR	ARR		Oerther,D	
	0.0- 6.0	76187	IND	6D	ARR	ARR	ARR		Wang,J	
4609 Research in Environmental Engineering Prerequisite: Senior standing.	1.0- 1.0	78248	LEC	1A	W	03:30 - 04:20 pm	BCH	00216	Burken,J	
5605 Environmental Systems Modeling Prerequisites: Env Eng/Civ Eng 2601, Env Eng/Civ Eng 2602 and Env Eng/ Civ Eng 3603; or Graduate standing. (Co-listed with Civ Eng 5605)	3.0- 3.0	77229	LEC	1A	TTh	12:30 - 01:45 pm	FUL	00107A	Oerther,D	
			LEC	1A	ARR	ARR	ARR			
5642 Sustainability, Population, Energy, Water, and Materials Prerequisite: Senior or graduate standing. (Co-listed with Civ Eng 5642 and Arch Eng 5642)	3.0- 3.0	76396	LEC	1A	TTh	09:30 - 10:45 am	BCH	00213	Fitch,M	
5662 Air Pollution Control Methods Prerequisite: Civ Eng 3330 or equivalent; or graduate standing. (Co-listed with Civ Eng 5662)	3.0- 3.0	77971	LEC	1A	MWF	10:00 - 10:50 am	BCH	00209	Fitch,M	
6000 Special Problems	0.0- 6.0	74889	IND	6A	ARR	ARR	ARR		Burken,J	
	0.0- 6.0	74890	IND	6B	ARR	ARR	ARR		Fitch,M	
	0.0- 6.0	74888	IND	6C	ARR	ARR	ARR		Oerther,D	
	0.0- 6.0	74891	IND	6D	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	74896	IND	6A	ARR	ARR	ARR		Burken,J	
6099 Research	0.0-15.0	74893	IND	6A	ARR	ARR	ARR		Burken,J	
	0.0-15.0	74894	IND	6B	ARR	ARR	ARR		Fitch,M	
	0.0-15.0	74895	IND	6C	ARR	ARR	ARR		Morrison,G	
	0.0-15.0	75671	IND	6D	ARR	ARR	ARR		Oerther,D	
	0.0-15.0	76269	IND	6E	ARR	ARR	ARR		Wang,J	
6600 Chemical Principles In Environmental Engineering Prerequisite: Graduate Standing. (Co-listed with Civ Eng 6600)	3.0- 3.0	76314	LEC	1A	MWF	11:00 - 11:50 am	BCH	00316		
6601 Biological Principles In Environmental Engineering Systems (Co-listed with Civ Eng 6601)	3.0- 3.0		LEC	1A	TTh	11:00 - 12:15 pm	LIB	000G14	Oerther,D	
	3.0- 3.0	76894	LAB	3A	ARR	ARR	ARR		Oerther,D	
Explosives Engineering										
5112 Explosives Handling and Safety Prerequisite: Junior Standing or above.	3.0- 3.0	77907	LEC	1A	TTh	04:00 - 06:30 pm	MINE		Johnson,C	
5612 Principles of Explosives Engineering Prerequisites: Min Eng 2126; successful background check. (Co-listed with Min Eng 5612)	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	MCNT	00265	Worsey,P	
	3.0- 3.0	76252	LAB	3A	T	01:00 - 03:50 pm	MINE		Worsey,P	
	3.0- 3.0	76253	LAB	3B	W	01:00 - 03:50 pm	MINE		Worsey,P	
	3.0- 3.0	76507	LAB	3C	Th	01:00 - 03:50 pm	MINE		Worsey,P	
6000 Special Problems	1.0- 3.0	77263	IND	6A	ARR	ARR	ARR		Johnson,C	
	1.0- 3.0	77264	IND	6B	ARR	ARR	ARR		Worsey,P	
6050 Continuous Registration Doctoral students only. Graduate office permission required.	1.0- 1.0	78261	IND	6A	ARR	ARR	ARR		Lusk,B	
6070 Graduate Cooperative Experience Prerequisite: 12 hours Exp Eng coursework.	3.0- 3.0	76377	LAB	3A	ARR	ARR	ARR		Worsey,P	
	3.0- 3.0	77302	LAB	3B	ARR	ARR	ARR		Johnson,C	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6080 Industry Project	3.0- 3.0	76350	LAB	3A	ARR	ARR	ARR		Worsey,P
Prerequisite: 12 hours Exp Eng coursework.	3.0- 3.0	77109	LAB	3B	ARR	ARR	ARR		Johnson,C
	3.0- 3.0	77367	LAB	3C	ARR	ARR	ARR		Lusk,B
	3.0- 3.0	77368	LAB	3D	ARR	ARR	ARR		Perry,K
6099 Research	0.0-15.0	76443	IND	6A	ARR	ARR	ARR		Johnson,C
Prerequisites: Consent of instructor required.	0.0-15.0	76444	IND	6B	ARR	ARR	ARR		Lusk,B
	0.0-15.0	77370	IND	6C	ARR	ARR	ARR		Perry,K
	0.0-15.0	77393	IND	6D	ARR	ARR	ARR		Worsey,P
6212 Theory Of High Explosives	3.0- 3.0	77908	LEC	1A	ARR	ARR	ARR		Baird,J
Prerequisite: Graduate Standing. (Co-listed with Min Eng 6632)									

Finance

2150 Corporate Finance I	3.0- 3.0	76049	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00314	Zhang,H
Prerequisites: Bus 1210 or Eng Mgt 2211.	3.0- 3.0	77065	LEC	1B	MWF	10:00 - 10:50 am	BCH	00317	Liu,Y
5160 Corporate Finance II	3.0- 3.0	77576	LEC	1A	MWF	11:00 - 11:50 am	BCH	00215	Liu,Y
Prerequisite: Finance 2150.									

French

1101 Elementary French I	4.0- 4.0	75137	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00202	Webster,C
Prerequisite: Entrance requirements.			LEC	1A	ARR	ARR	ARR		
1102 Elementary French II	4.0- 4.0	77260	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00202	Webster,C
Prerequisite: French 1101.			LEC	1A	ARR	ARR	ARR		
1180 Intermediate French	4.0- 4.0	77409	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	00203	Webster,C
Prerequisite: French 1102.			LEC	1A	ARR	ARR	ARR		
2110 Basic French Conversation	3.0- 3.0	78014	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00201	Merfeld-Langston,A
Prerequisite: French 1102.									
4311 Advanced French Conversation	3.0- 3.0	78015	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00201	Merfeld-Langston,A
Prerequisite: French 2170.									

Freshman Engineering

1100 Study And Careers In Engineering	1.0- 1.0	74596	LEC	1A	T	11:00 - 11:50 am	MCNT	00204	Ludlow,D
			LEC	1A	ARR	ARR	ARR		
	1.0- 1.0	74597	LEC	1B	T	01:00 - 01:50 pm	H-SS	000G5	Miller,F
			LEC	1B	ARR	ARR	ARR		
	1.0- 1.0	74598	LEC	1C	W	11:00 - 11:50 am	H-SS	000G5	Ludlow,D
			LEC	1C	ARR	ARR	ARR		
	1.0- 1.0	74599	LEC	1D	W	01:00 - 01:50 pm	H-SS	000G5	Miller,F
			LEC	1D	ARR	ARR	ARR		
	1.0- 1.0	74600	LEC	1E	Th	11:00 - 11:50 am	MCNT	00204	Ludlow,D
			LEC	1E	ARR	ARR	ARR		
	1.0- 1.0	74601	LEC	1F	Th	01:00 - 01:50 pm	H-SS	000G5	Miller,F
			LEC	1F	ARR	ARR	ARR		
	1.0- 1.0	74594	LEC	1G	F	11:00 - 11:50 am	H-SS	000G5	Ludlow,D
			LEC	1G	ARR	ARR	ARR		
	1.0- 1.0	74595	LEC	1H	F	01:00 - 01:50 pm	H-SS	000G5	Miller,F
			LEC	1H	ARR	ARR	ARR		
	1.0- 1.0	76779	LEC	1AA	M	11:00 - 11:50 am	PHYS	00104	Ludlow,D
			LEC	1AA	ARR	ARR	ARR		
	1.0- 1.0	76781	LEC	1BB	M	01:00 - 01:50 pm	H-SS	000G5	Miller,F
			LEC	1BB	ARR	ARR	ARR		

Geological Engineering

1150 Physical and Environmental Geology	3.0- 3.0		LEC	1A	TTh	11:00 - 12:15 pm	EECH	00G31	Gertsch,L
Prerequisite: Entrance requirements.	3.0- 3.0	78215	LAB	3A	M	01:00 - 03:50 pm	MCNT	00316	
	3.0- 3.0	78216	LAB	3B	T	12:30 - 03:15 pm	MCNT	00316	Gertsch,L
	3.0- 3.0	78217	LAB	3C	W	01:00 - 03:50 pm	MCNT	00316	Gertsch,L
	3.0- 3.0	78218	LAB	3D	Th	02:00 - 04:50 pm	MCNT	00316	Gertsch,L
	3.0- 3.0	78219	LAB	3E	F	01:00 - 03:50 pm	MCNT	00316	
2000 Special Problems	0.0- 6.0	75138	IND	6A	ARR	ARR	ARR		Maerz,N
Prerequisite: Consent of instructor required.									
2605 Statics and Mechanics of Geologic Materials	3.0- 3.0	78069	LEC	1A	ARR	ARR	ARR		Gertsch,L
Prerequisite: Permission of instructor.									

CATALOG #	COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3148	Fundamentals Of Geographic Information Systems (Co-listed with Geology 3811)	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	MCNT	00216	Bridges,D
		3.0- 3.0	75140	LAB	3A	Th	12:30 - 03:15 pm	MCNT	000B14	Bridges,D
		3.0- 3.0	77069	LAB	3B	Th	03:30 - 06:15 pm	MCNT	000B14	Bridges,D
3249	Fundamentals Of Computer Applications In Geological Engineering Prerequisites: Geo Eng 1150, Comp Sci 1970, 1980.	3.0- 3.0		LEC	1A	MW	10:00 - 10:50 am	MCNT	000B14	Guggenberger,J
		3.0- 3.0	78071	LAB	3A	M	01:00 - 03:50 pm	MCNT	000B14	Guggenberger,J
4000	Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	75141	IND	6A	ARR	ARR	ARR		Gertsch,L
4010	Current Topics and Professionalism Prerequisite: Senior standing.	0.5- 0.5	75143	RSD	2A	W	04:00 - 04:50 pm	MCNT	00204	Anderson,N
4099	Undergraduate Research	0.0- 6.0	75148	IND	6A	ARR	ARR	ARR		Grote,K
		0.0- 6.0	77151	IND	6B	ARR	ARR	ARR		Guggenberger,J
5085	Internship DE students only.	0.0-15.0	75159	IND	6A	ARR	ARR	ARR		
5090	Geological Engineering Design Prerequisite: To be taken the semester before graduation.	3.0- 3.0		LEC	1A	Th	07:00 - 08:40 pm	MCNT	000B10	
		3.0- 3.0	75146	LAB	3A	Th	03:00 - 05:50 pm	MCNT	000B10	
5099	Research Prerequisite: Consent of instructor required.	0.0-15.0	75154	IND	6A	ARR	ARR	ARR		Anderson,N
		0.0-15.0	75155	IND	6B	ARR	ARR	ARR		Cawlfild,J
		0.0-15.0	75156	IND	6C	ARR	ARR	ARR		Gertsch,L
		0.0-15.0	75157	IND	6D	ARR	ARR	ARR		Grote,K
		0.0-15.0	76117	IND	6E	ARR	ARR	ARR		Guggenberger,J
		0.0-15.0	75158	IND	6F	ARR	ARR	ARR		Maerz,N
		0.0-15.0	76871	IND	6G	ARR	ARR	ARR		Rogers,J
5331	Subsurface Hydrology Prerequisites: Geo Eng 1150, Math 3304.	3.0- 3.0	76601	LEC	1A	MWF	08:00 - 08:50 am	BCH	00213	Grote,K
5441	Engineering Geology And Geotechnics Prerequisite: Geo Eng 3175.	3.0- 3.0	75144	LEC	1A	M	04:00 - 06:30 pm	BCH	00213	Rogers,J
5471	Rock Engineering Prerequisite: Geo Eng 3175.	3.0- 3.0	75147	LEC	1A	T	04:00 - 06:30 pm	TMH	00260	Maerz,N
5556	Renewable Energy Systems Prerequisites: Math 3304, Physics 2135, and preceded or accompanied by Geo Eng 4115 or any Probability and Statistics class. Junior or senior standing is required.	3.0- 3.0	78072	LEC	1A	TTh	09:30 - 10:45 am	MCNT	000B14	Guggenberger,J
5736	Geophysical Field Methods Prerequisite: Junior level standing or higher. (Co-listed with Geophys 5736)	3.0- 3.0		LEC	1A	MW	09:00 - 09:50 am	MCNT	00243	Torgashov,E
		3.0- 3.0	76013	LAB	3A	W	01:00 - 02:50 pm	MCNT	000B14	Torgashov,E
5761	Transportation Applications of Geophysics Prerequisite: Junior level standing or higher. (Co-listed with Geophys 5761 and Civ Eng 5750)	3.0- 3.0		LEC	1A	MW	12:00 - 12:50 pm	CS	00209	Anderson,N
		3.0- 3.0	75959	LAB	3A	M	02:00 - 02:50 pm	CS	00209	Anderson,N
6000	Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	75149	IND	6A	ARR	ARR	ARR		Anderson,N
		0.0- 6.0	75150	IND	6B	ARR	ARR	ARR		Cawlfild,J
		0.0- 6.0	75151	IND	6C	ARR	ARR	ARR		Gertsch,L
		0.0- 6.0	75152	IND	6D	ARR	ARR	ARR		Grote,K
		0.0- 6.0	76015	IND	6E	ARR	ARR	ARR		Guggenberger,J
		0.0- 6.0	76016	IND	6F	ARR	ARR	ARR		Maerz,N
		0.0- 6.0	77154	IND	6G	ARR	ARR	ARR		Rogers,J
6010	Seminar	1.0- 1.0	75153	RSD	2A	W	04:00 - 04:50 pm	MCNT	00204	Anderson,N
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	75160	IND	6A	ARR	ARR	ARR		Rogers,J
6050	Continuous Registration Doctoral students only. Graduate office permission required.	1.0- 1.0	75161	IND	6A	ARR	ARR	ARR		Rogers,J
6099	Research	0.0-15.0	77595	IND	6A	ARR	ARR	ARR		Maerz,N
		0.0-15.0	77778	IND	6B	ARR	ARR	ARR		Rogers,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6331 Advanced Subsurface Hydrology Prerequisite: Geo Eng 5331 or equivalent.	3.0- 3.0	78074	LEC	1A	MWF	11:00 - 11:50 am	EECH	00239	Grote,K
6441 Geotechnical Construction Practice Prerequisite: Geo Eng 5441.	3.0- 3.0	78073	LEC	1A	T	07:00 - 09:30 pm	BERTELS	00B12B	Rogers,J
6477 Discontinuous Rock Prerequisite: Min Eng 4823 or Geo Eng 5471.	3.0- 3.0	76302	LEC	1A	M	07:00 - 09:30 pm	BCH	00213	Maerz,N
			LEC	1A	ARR	ARR	ARR		

Geology

1110 Physical And Environmental Geology Prerequisite: Entrance requirements.	3.0- 3.0	75162	LEC	1A	TTh	11:00 - 12:15 pm	CS	00216	Wronkiewicz,D
			Field Trip Required						
1119 Physical and Environmental Geology Laboratory	1.0- 1.0	76955	LAB	3A	W	06:00 - 09:00 pm	MCNT	00316	Wronkiewicz,D
2610 Mineralogy And Crystallography Prerequisites: Chem 1310 and Chem 1319.	4.0- 4.0		LEC	1A	MWF	11:00 - 11:50 am	MCNT	00210	Wronkiewicz,D
	4.0- 4.0	75164	LAB	3A	Th	02:00 - 04:45 pm	MCNT	00108	Wronkiewicz,D
	4.0- 4.0	76260	LAB	3B	Th	11:00 - 01:45 pm	MCNT	00108	Wronkiewicz,D
3000 Special Problems Prerequisite: Consent of instructor.	0.0- 6.0	75165	IND	6A	ARR	ARR	ARR		Hogan,J
3310 Structural Geology Prerequisite: Geology 1110 or Geo Eng 1150.	3.0- 3.0	75167	LEC	1A	MWF	09:00 - 09:50 am	BCH	00124	
			Field Trip Required						
			LEC	1A	MWF	09:00 - 09:50 am	BCH	00125	Hogan,J
			Field Trip Required						
3319 Structural Geology Lab Prerequisites: Preceded or accompanied by GEOLOGY 3310.	1.0- 1.0	76952	LAB	3A	T	12:30 - 03:20 pm	MCNT	00308	Hogan,J
	1.0- 1.0	76953	LAB	3B	W	01:00 - 03:50 pm	MCNT	00308	Hogan,J
	1.0- 1.0	76954	LAB	3C	Th	12:30 - 03:20 pm	MCNT	00308	Hogan,J
3511 Introduction to Mineral Deposits Prerequisites: Geology 1110 and Geology 2610.	3.0- 3.0	75168	LEC	1A	MW	05:00 - 06:15 pm	MCNT	00312	Locmelis,M
			Field Trip Required						
3631 Systematic Paleontology Prerequisite: Geology 1110 or Geology 1120 or Bio Sci 1113.	3.0- 3.0		LEC	1A	MW	10:00 - 10:50 am	EECH	00239	Oboh Ikuenobe,F
	3.0- 3.0	77401	LAB	3A	W	01:00 - 03:50 pm	BCH	00121	Oboh Ikuenobe,F
3811 Fundamentals Of Geographic Information Systems (Co-listed with Geo Eng 3148)	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	MCNT	00216	Bridges,D
	3.0- 3.0	75947	LAB	3A	Th	12:30 - 03:15 pm	MCNT	000B14	Bridges,D
	3.0- 3.0	76957	LAB	3B	Th	03:30 - 06:15 pm	MCNT	000B14	Bridges,D
4000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	75169	IND	6A	ARR	ARR	ARR		Hogan,J
4001 Special Topics Prerequisites: Geology 3630 and Geology 3639.	3.0- 3.0		LEC	1A	TTh	09:00 - 09:50 am	MCNT	00243	Yang,W
			Carbonate Sedimentology						
	3.0- 3.0	78076	LAB	3A	T	02:00 - 04:15 pm	MCNT	00108	Yang,W
			Carbonate Sedimentology						
4010 Seminar Prerequisite: Senior standing.	0.0- 6.0	75166	RSD	2A	Th	12:30 - 01:20 pm	MCNT	00206	
			RSD	2A	M	04:00 - 04:50 pm	MCNT	00204	Borrok,D
4099 Undergraduate Research	0.0- 6.0	75173	IND	6A	ARR	ARR	ARR		Hogan,J
	0.0- 6.0	75174	IND	6B	ARR	ARR	ARR		Locmelis,M
	0.0- 6.0	75175	IND	6C	ARR	ARR	ARR		Oboh Ikuenobe,F
	0.0- 6.0	75176	IND	6D	ARR	ARR	ARR		Obrist Famer,J
	0.0- 6.0	76322	IND	6E	ARR	ARR	ARR		Wronkiewicz,D
	0.0- 6.0	77336	IND	6F	ARR	ARR	ARR		Yang,W
4411 Hydrogeology Prerequisites: Geo Eng 1150 or Geology 1110, Geology 3620 recommended.	3.0- 3.0	77298	LEC	1A	MWF	08:00 - 08:50 am	BCH	00213	Grote,K
4711 Paleoclimatology and Paleocology Prerequisite: Geology 1110 or Geology 1120 or Geo Eng 1150.	3.0- 3.0	77917	LEC	1A	MWF	12:00 - 12:50 pm	MCNT	00243	Oboh Ikuenobe,F
5000 Special Problems	0.0- 6.0	75177	IND	6A	ARR	ARR	ARR		Hogan,J
	0.0- 6.0	77786	IND	6B	ARR	ARR	ARR		Wronkiewicz,D
5010 Seminar	0.0- 6.0	75178	RSD	2A	Th	12:30 - 01:20 pm	MCNT	00206	
			RSD	2A	M	04:00 - 04:50 pm	MCNT	00204	Borrok,D
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	75183	IND	6A	ARR	ARR	ARR		
5099 Research	0.0-15.0	75179	IND	6A	ARR	ARR	ARR		Hogan,J

CATALOG #	COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
		0.0-15.0	75180	IND	6B	ARR	ARR	ARR		Locmelis,M
		0.0-15.0	75181	IND	6C	ARR	ARR	ARR		Oboh Ikuenobe,F
		0.0-15.0	75182	IND	6D	ARR	ARR	ARR		Obrist Famer,J
		0.0-15.0	77335	IND	6E	ARR	ARR	ARR		Wronkiewicz,D
		0.0-15.0	77348	IND	6F	ARR	ARR	ARR		Yang,W
5111	Advanced Physical Geology Prerequisite: Consent of instructor.	3.0- 3.0	77918	LEC	1A	M	01:00 - 03:45 pm	ARR		Hogan,J
5411	Advanced Geochemistry Prerequisite: Geology 3410.	3.0- 3.0	77919	LEC	1A	TTh	12:30 - 01:45 pm	MCNT	00211	Locmelis,M
5513	Petroleum Geology Prerequisites: Geology 1110 or Geo Eng 1150; accompanied or preceded by both Geology 3310 and Geology 3620.	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	BCH	00125	Obrist Famer,J
		3.0- 3.0	75172	LAB	3A	T	02:00 - 04:15 pm	MCNT	00265	Obrist Famer,J
		3.0- 3.0	76337	LAB	3B	Th	02:00 - 04:15 pm	MCNT	00265	Obrist Famer,J
5661	Advanced Stratigraphy and Basin Evolution Prerequisites: Geology 3620 and Geology 3310.	3.0- 3.0	77156	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00243	Yang,W
5671	Clay Mineralogy Prerequisites: Geology 2610 and 3410, or Chem 2310, or Civ Eng 5715, or Geo Eng 5172.	3.0- 3.0		LEC	1A	MWF	10:00 - 10:50 am	MCNT	00265	Wronkiewicz,D
		3.0- 3.0	78078	LAB	3A	ARR	ARR	ARR		Wronkiewicz,D
6050	Continuous Registration Doctoral students only. Graduate office permission required.	1.0- 1.0	75184	IND	6A	ARR	ARR	ARR		Gao,S
6421	Environmental Geology Prerequisites: GEOLOGY 1110 or 1120 or equivalents.	3.0- 3.0	77709	LEC	1A	TTh	06:00 - 07:15 pm	BCH	00121	Tucker,R
6711	Advanced Paleoclimatology and Paleocology Prerequisite: Geology 3620.	3.0- 3.0	77920	LEC	1A	MWF	12:00 - 12:50 pm	MCNT	00243	Oboh Ikuenobe,F
6811	Sedimentary Basin Analysis Prerequisites: Geology 3310, 3620, 3410 or 4441 or 4451.	3.0- 3.0	77147	LEC	1A	TTh	11:00 - 12:15 pm	ARR		Yang,W
Geophysics										
3210	Introduction to Geophysics Prerequisites: Math 1208 and Geology 1110.	3.0- 3.0	76939	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00216	Gao,S
4000	Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	75185	IND	6A	ARR	ARR	ARR		Gao,S
4099	Undergraduate Research	0.0- 6.0	75186	IND	6A	ARR	ARR	ARR		Gao,S
		0.0- 6.0	75187	IND	6B	ARR	ARR	ARR		Liu,K
4231	Seismic Interpretation Prerequisites: Math 1208 or Math 1214; Geology 1110 or Geo Eng 1150.	3.0- 3.0		LEC	1A	MW	02:00 - 02:50 pm	EMGT	00103	Liu,K
		3.0- 3.0	75989	LAB	3A	T	01:00 - 02:50 pm	MCNutt	234	Liu,K
		3.0- 3.0	76569	LAB	3B	W	03:00 - 04:50 pm	MCNT	000B14	Liu,K
		3.0- 3.0	76795	LAB	3C	F	03:00 - 04:50 pm	MCNT	000B14	Liu,K
		3.0- 3.0	77107	LAB	3D	T	01:00 - 02:50 pm	MCNT	000B14	Liu,K
5000	Special Problems	0.0- 6.0	75188	IND	6A	ARR	ARR	ARR		Gao,S
		0.0- 6.0	75189	IND	6B	ARR	ARR	ARR		Liu,K
5010	Seminar	0.0- 6.0	75190	RSD	2A	Th	12:30 - 01:20 pm	MCNT	00206	
				RSD	2A	M	04:00 - 04:50 pm	MCNT	00204	
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	75194	IND	6A	ARR	ARR	ARR		
5099	Research Prerequisite: Consent of instructor required.	0.0-15.0	75191	IND	6A	ARR	ARR	ARR		Anderson,N
		0.0-15.0	75192	IND	6B	ARR	ARR	ARR		Atekwana,E
		0.0-15.0	75193	IND	6C	ARR	ARR	ARR		Gao,S
		0.0-15.0	75938	IND	6D	ARR	ARR	ARR		Liu,K
5261	Computational Geophysics Prerequisite: Geophys 3210.	3.0- 3.0		LEC	1A	F	02:00 - 03:50 pm	MCNT	00114	Gao,S
		3.0- 3.0	76603	LAB	3A	ARR	ARR	ARR		Gao,S
5736	Geophysical Field Methods Prerequisite: Junior level standing or higher. (Co-listed with Geo Eng 5736)	3.0- 3.0		LEC	1A	MW	09:00 - 09:50 am	MCNT	00243	Torgashov,E
										Field Trip Required

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	3.0- 3.0	75879	LAB	3A	W	01:00 - 02:50 pm	MCNT	000B14	Torgashov,E
			Field Trip Required						
5761 Transportation Applications of Geophysics	3.0- 3.0		LEC	1A	MW	12:00 - 12:50 pm	CS	00209	Anderson,N
	3.0- 3.0	75956	LAB	3A	M	02:00 - 02:50 pm	CS	00209	Anderson,N
Prerequisite: Junior level standing or higher. (Co-listed with Geo Eng 5761 and Civ Eng 5750)									
6040 Oral Examination	0.0- 0.0	76838	IND	6A	ARR	ARR	ARR		
6050 Continuous Registration	1.0- 1.0	75195	IND	6A	ARR	ARR	ARR		Gao,S
Doctoral students only. Graduate office permission required.									
6211 Advanced Seismic Interpretation	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	MCNT	00312	Liu,K
	3.0- 3.0	77301	LAB	3A	F	11:00 - 11:50 am	MCNT	000B14	Liu,K
Prerequisites: Geophys 3210 or Geophys 5202.									
			LAB	3A	ARR	ARR	MCNT	000B14	

German

1101 Elementary German I	4.0- 4.0	75196	LEC	1A	Th	10:00 - 10:50 am	MCNT	00243	
Prerequisite: Entrance requirements.									
			LEC	1A	MWF	10:00 - 10:50 am	PHYS	00128	Cohen,G
1180 Classical And Modern German Readings	4.0- 4.0	75197	LEC	1A	MWThF	01:00 - 01:50 pm	MCNT	00245	Cohen,G
Prerequisite: German 1102.									
4000 Special Problems	0.0- 6.0	76722	IND	6A	MW	12:00 - 12:50 pm	H-SS	00204	Cohen,G
Prerequisite: Consent of instructor required.									

History

1100 Early Western Civilization	3.0- 3.0	76378	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	00101	Bruening,M
1200 Modern Western Civilization	3.0- 3.0	75198	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00103	Quinn,J
	3.0- 3.0	76131	LEC	1B	TTh	12:30 - 01:45 pm	H-SS	00103	Rivera,J
1300 American History To 1877	3.0- 3.0	76556	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00103	Ahmad,D
	3.0- 3.0	77389	LEC	1B	MWF	11:00 - 11:50 am	H-SS	00103	Ahmad,D
	3.0- 3.0	76052	LEC	1C	MW	01:00 - 01:50 pm	H-SS	00104	DeWitt,P
			LEC	1C	ARR	ARR	ARR		
	3.0- 3.0	76157	LEC	1D	TTh	02:00 - 03:15 pm	FUL	00227	Ketcherside,J
1310 American History Since 1877	3.0- 3.0	75199	LEC	1A	TTh	09:30 - 10:45 am	H-SS	00101	Gragg,L
	3.0- 3.0	75922	LEC	1B	TTh	11:00 - 12:15 pm	H-SS	00101	Gragg,L
	3.0- 3.0	76784	LEC	1C	MWF	09:00 - 09:50 am	H-SS	00101	Huber,P
	3.0- 3.0	77059	LEC	1D	MWF	10:00 - 10:50 am	H-SS	00101	Huber,P
	3.0- 3.0	76158	LEC	1E	TTh	12:30 - 01:45 pm	TMH	00249	
	3.0- 3.0	77686	LEC	1F	TTh	02:00 - 03:15 pm	EECH	00111	Croft,D
1790 Introduction to History	1.0- 1.0	76207	LEC	1A	F	01:00 - 01:50 pm	H-SS	00104	DeWitt,P
2001 Special Topics	3.0- 3.0	78226	LEC	1A	T	04:00 - 06:30 pm	EECH	00112	Crosthwait,R
Prerequisites: One of either History 1100, 1200, 1300 or 1310.									
2510 History of Technology	3.0- 3.0	77885	LEC	1A	TTh	09:30 - 10:45 am	H-SS	00104	Schramm,J
Prerequisite: History 1100 or History 1200 or 1300 or 1310.									
2790 Historiography	3.0- 3.0	77139	LEC	1A	MW	03:00 - 03:50 pm	EMGT	00106	DeWitt,P
Prerequisite: Sophomore standing.									
			Communication Intensive						
			LEC	1A	ARR	ARR	ARR		
			Communication Intensive						
3150 Tudor and Stuart England	3.0- 3.0	77888	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00101	Bruening,M
Prerequisite: History 1100 or History 1200.									
			Communication Intensive						
3280 European Migrations and Nationalism Formation	3.0- 3.0	77887	LEC	1A	MWF	11:00 - 11:50 am	H-SS	00201	DeWitt,P
Prerequisites: History 1200 or History 1300 or History 1310.									
3360 Recent United States History	3.0- 3.0	77886	LEC	1A	MWF	11:00 - 11:50 am	H-SS	00101	Huber,P
Prerequisite: History 1310.									
3440 20th Century Americans In Combat	3.0- 3.0	77891	LEC	1A	Th	06:00 - 08:45 pm	H-SS	00101	Ketcherside,J
Prerequisite: History 1300 or 1310 or 1200.									
3441 The United States In World War II	3.0- 3.0	77892	LEC	1A	TTh	03:30 - 04:45 pm	H-SS	00101	Ketcherside,J
Prerequisite: History 1300 or 1310.									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3762 American Foreign Policy Since 1945 Prerequisite: History 1310 or Pol Sci 1200. (Co-listed with Pol Sci 3762)	3.0- 3.0	77889	LEC	1A	W	06:00 - 08:45 pm	H-SS	00103	Meagher,M
4000 Special Problems Prerequisite: Consent of instructor	0.0- 6.0	75200	IND	6A	ARR	ARR	ARR		Ahmad,D
	0.0- 6.0	75201	IND	6B	ARR	ARR	ARR		Bruening,M
	0.0- 6.0	75202	IND	6C	ARR	ARR	ARR		DeWitt,P
	0.0- 6.0	75203	IND	6D	ARR	ARR	ARR		Gragg,L
	0.0- 6.0	75762	IND	6E	ARR	ARR	ARR		McManus,J
	0.0- 6.0	75857	IND	6F	ARR	ARR	ARR		Schramm,J
4001 Special Topics	3.0- 3.0	76470	IND	6G	ARR	ARR	ARR		Sheppard,K
	3.0- 3.0	78282	LEC	1A	ARR	ARR	ARR		Schramm,J
									Guiding Dsgn Hist Preservation
									UM Shared Course-Secondary
4097 Senior Project Prerequisites: History 2790 and senior standing.	3.0- 3.0	76461	LEC	1A	ARR	ARR	ARR		Fogg,S
4245 Nazi Germany and the Holocaust Prerequisite: History 1200.	3.0- 3.0	77896	LEC	1A	TTh	09:30 - 10:45 am	H-SS	000G9	Fogg,S
4435 History of the American West Prerequisite: History 1300 or History 1310.	3.0- 3.0	77893	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00103	Ahmad,D
									Communication Emphasized
4550 Architecture, Technology and Society; 1750 to Present Prerequisites: History 1100 or History 1200 or History 1300 or History 1310 or Pol Sci 1200. Recommended: Junior or Senior Standing. Recommended for Arch Eng majors: Art 3203 taken prior to course.	3.0- 3.0	77894	LEC	1A	T	12:30 - 01:45 pm	H-SS	00101	Schramm,J
									Field Trip Required
			LEC	1A	ARR	ARR	ARR		
									Field Trip Required
	3.0- 3.0	77895	LEC	1B	Th	12:30 - 01:45 pm	H-SS	00101	Schramm,J
									Field Trip Required
			LEC	1B	ARR	ARR	ARR		
									Field Trip Required

Info Science & Technology

1551 Implementing Information Systems: User Perspective	3.0- 3.0	75205	LEC	1A	MWF	08:00 - 08:50 am	TMH	00251	Hilgers,M
1552 Implementing Information Systems: Data Perspective Prerequisite: IS&T 1551.	3.0- 3.0	76022	LEC	1A	MWF	09:00 - 09:50 am	TMH	00251	Bates,C
1750 Introduction to Management Information Systems	3.0- 3.0		LEC	1A	MW	10:00 - 10:50 am	TMH	00251	Chiu,Y
	3.0- 3.0	75207	LAB	3A	F	10:00 - 10:50 am	TMH	00251	Chiu,Y
3420 Introduction to Data Science and Management Prerequisites: IS&T 1552 or Comp Sci 1510.	3.0- 3.0	76927	LEC	1A	MWF	09:00 - 09:50 am	CS	00205	Chen,L
3423 Database Management Prerequisites: IS&T 1750; IS&T 1552 or Comp Sci 1510.	3.0- 3.0	75209	LEC	1A	TTh	02:00 - 03:15 pm	EMGT	00103	Flachsbart,B
3553 Modular Software Systems in Java Prerequisites: IS&T 1552 and IS&T 3131.	3.0- 3.0	78105	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00313	Oswald,N
4099 Undergraduate Research	0.0- 6.0	75699	IND	6A	ARR	ARR	ARR		Lea,B
	0.0- 6.0	76369	IND	6B	ARR	ARR	ARR		Nah,F
4261 Information Systems Project Management Prerequisites: IST 1552 or Comp Sci 1510; Senior Standing.	3.0- 3.0	76587	LEC	1A	T	07:00 - 09:30 pm	FUL	00107A	Flachsbart,B
4450 Introduction to Information Visualization Prerequisites: Statistics, Calculus, and Programming Knowledge.	3.0- 3.0	76999	LEC	1A	MWF	10:00 - 10:50 am	FUL	00107A	Hilgers,M
4641 Digital Commerce and the Internet of Things Prerequisites: IS&T 1750 and at least Sophomore standing.	3.0- 3.0	76536	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00260	Bates,C
4654 Web and Digital Media Development	3.0- 3.0	75208	LEC	1A	TTh	11:00 - 12:15 pm	CSF	00114	Hall,R
4680 Introduction to Web and New Media Studies Prerequisite: Junior or Senior standing.	3.0- 3.0	76422	LEC	1A	ARR	ARR	ARR		Hall,R
4780 Human and Organizational Factors in Cybersecurity	3.0- 3.0	77722	LEC	1A	TTh	12:30 - 01:45 pm	FUL	00220	Twyman,N

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5099 Research	0.0-15.0	75213	IND	6A	ARR	ARR	ARR		Flachsbar,B
	0.0-15.0	75697	IND	6B	ARR	ARR	ARR		Hall,R
	0.0-15.0	75704	IND	6C	ARR	ARR	ARR		Hilgers,M
	0.0-15.0	75971	IND	6D	ARR	ARR	ARR		Lea,B
	0.0-15.0	75859	IND	6E	ARR	ARR	ARR		Nah,F
	0.0-15.0	76215	IND	6F	ARR	ARR	ARR		Siau,K
	0.0-15.0	76262	IND	6G	ARR	ARR	ARR		Yu,W
5251 Technological Innovation Management and Leadership Prerequisite: Senior or Graduate Standing.	3.0- 3.0	75211	LEC	1A	M	07:00 - 09:30 pm	FUL	00107A	Nah,F
5423 Foundations of Data Management Prerequisites: IS&T 1750, IS&T 1552, and graduate standing.	3.0- 3.0	77460	LEC	1A	TTh	02:00 - 03:15 pm	EMGT	00103	Flachsbar,B
5885 Human-Computer Interaction	3.0- 3.0	75996	LEC	1A	MWF	02:00 - 02:50 pm	TMH	00260	Bates,C
5886 Prototyping Human-Computer Interactions Prerequisite: Preceded or accompanied by IS&T 5885.	3.0- 3.0	76375	LEC	1A	TTh	09:30 - 10:45 am	EECH	00239	Twyman,N
6261 Advanced Information Systems Project Management Prerequisites: IS&T MS Entrance requirements, with strong programming knowledge.	3.0- 3.0	76588	LEC	1A	T	07:00 - 09:30 pm	FUL	00107A	Flachsbar,B
6443 Information Retrieval and Analysis Prerequisite: ERP 5410 or statistics knowledge.	3.0- 3.0	76492	LEC	1A	TTh	02:00 - 03:15 pm	FUL	00107A	Yu,W
6450 Information Visualization Prerequisites: Statistics, Calculus, and Programming Knowledge.	3.0- 3.0	76997	LEC	1A	MWF	10:00 - 10:50 am	FUL	00107A	Hilgers,M
6641 Advanced Digital Commerce and the Internet of Things Prerequisites: Knowledge of management information systems.	3.0- 3.0	76537	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00260	Bates,C
6654 Advanced Web and Digital Media Development	3.0- 3.0	76800	LEC	1A	TTh	11:00 - 12:15 pm	CSF	00114	Hall,R
6680 Advanced Web and New Media Studies	3.0- 3.0	76695	LEC	1A	ARR	ARR	ARR		Hall,R
6780 Adv Human and Organizational Factors in Cybersecurity	3.0- 3.0	77723	LEC	1A	TTh	12:30 - 01:45 pm	FUL	00220	Twyman,N
6887 Research Methods in Business and IS&T (Co-listed with BUS 6887)	3.0- 3.0	76330	LEC	1A	Th	07:00 - 09:30 pm	FUL	00107A	Nah,F

Marketing

3110 Marketing	3.0- 3.0	76006	LEC	1A	MWF	01:00 - 01:50 pm	IDE	00105	Fukawa,N
	3.0- 3.0	76374	LEC	1B	MWF	02:00 - 02:50 pm	IDE	00105	Fukawa,N
5310 Digital Marketing and Promotions Prerequisites: At least Junior standing.	3.0- 3.0	76512	LEC	1A	TTh	02:00 - 03:15 pm	BERTELS	00B12A	Stanley,S

Materials Science & Eng

4819 Polymer Science Laboratory	1.0- 1.0	78297	LAB	3A	T	10:00 - 10:50 am	CH	00103	Schuman,T
									Prerequisite: Chem 4810 or MS&E 4810 and preceded or accompanied by Chem 1100. (Co-listed with Chem 4819)
			LAB	3A	T	11:00 - 01:50 pm	SHNK	00303	
									Prerequisite: Chem 4810 or MS&E 4810 and preceded or accompanied by Chem 1100. (Co-listed with Chem 4819)

Materials Science & Eng

5000 Special Problems	0.0- 6.0	75901	IND	6A	ARR	ARR	ARR		Moats,M
5010 Seminar	0.0- 6.0	75841	RSD	2A	Th	03:00 - 04:50 pm	MCNT	00204	Moats,M
5040 Oral Examination	0.0- 0.0	75897	IND	6A	ARR	ARR	ARR		Hilmas,G
5099 Research	0.0-15.0	75814	IND	6A	ARR	ARR	ARR		Anderson,H
	0.0-15.0	75815	IND	6B	ARR	ARR	ARR		Asle Zaeem,M
	0.0-15.0	75816	IND	6C	ARR	ARR	ARR		Brow,R
	0.0-15.0	75817	IND	6D	ARR	ARR	ARR		Day,D
	0.0-15.0	75818	IND	6E	ARR	ARR	ARR		Dogan,F

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0-15.0	75819	IND	6F	ARR	ARR	ARR		Drewniak,J
	0.0-15.0	75820	IND	6G	ARR	ARR	ARR		Fahrenholtz,W
	0.0-15.0	75821	IND	6H	ARR	ARR	ARR		Hilmas,G
	0.0-15.0	75822	IND	6J	ARR	ARR	ARR		Huebner,W
	0.0-15.0	75823	IND	6K	ARR	ARR	ARR		Lekakh,S
	0.0-15.0	75824	IND	6L	ARR	ARR	ARR		Miller,F
	0.0-15.0	75825	IND	6M	ARR	ARR	ARR		Moats,M
	0.0-15.0	75826	IND	6N	ARR	ARR	ARR		Newkirk,J
	0.0-15.0	75827	IND	6P	ARR	ARR	ARR		O'Keefe,M
	0.0-15.0	75828	IND	6R	ARR	ARR	ARR		Richards,V
	0.0-15.0	75829	IND	6T	ARR	ARR	ARR		Schlesinger,M
	0.0-15.0	75830	IND	6U	ARR	ARR	ARR		Schwartz,R
	0.0-15.0	75831	IND	6V	ARR	ARR	ARR		Smith,J
	0.0-15.0	75832	IND	6W	ARR	ARR	ARR		Switzer,J
	0.0-15.0	75833	IND	6X	ARR	ARR	ARR		Van Aken,D
	0.0-15.0	75834	IND	6Y	ARR	ARR	ARR		Watts,J
	0.0-15.0	76146	IND	6Z	ARR	ARR	ARR		Xing,Y
	0.0-15.0	78058	IND	6AA	ARR	ARR	ARR		Zhou,C
5220 Advanced Phase Equilibria Prerequisite: Graduate standing.	3.0- 3.0	76321	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00212	Smith,J
5310 Biomaterials I Prerequisites: Senior undergraduate standing. (Co-listed with BIO SCI 5210, CHEM ENG 5200)	3.0- 3.0	77277	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00256	Jung,S
6050 Continuous Registration	1.0- 1.0	75896	IND	6A	ARR	ARR	ARR		Moats,M
6099 Research	0.0-15.0	77021	IND	6A	ARR	ARR	ARR		Asle Zaeem,M
	0.0-15.0	77022	IND	6B	ARR	ARR	ARR		Bartlett,L
	0.0-15.0	77023	IND	6C	ARR	ARR	ARR		Brow,R
	0.0-15.0	77024	IND	6D	ARR	ARR	ARR		Day,D
	0.0-15.0	77025	IND	6E	ARR	ARR	ARR		Dogan,F
	0.0-15.0	77026	IND	6F	ARR	ARR	ARR		Drewniak,J
	0.0-15.0	77027	IND	6G	ARR	ARR	ARR		Fahrenholtz,W
	0.0-15.0	77028	IND	6H	ARR	ARR	ARR		Hilmas,G
	0.0-15.0	77029	IND	6J	ARR	ARR	ARR		Huebner,W
	0.0-15.0	77030	IND	6K	ARR	ARR	ARR		Kumar,A
	0.0-15.0	77031	IND	6L	ARR	ARR	ARR		Lekakh,S
	0.0-15.0	77032	IND	6M	ARR	ARR	ARR		Lipke,D
	0.0-15.0	77033	IND	6N	ARR	ARR	ARR		Miller,F
	0.0-15.0	77034	IND	6P	ARR	ARR	ARR		Moats,M
	0.0-15.0	77035	IND	6Q	ARR	ARR	ARR		Nath,M
	0.0-15.0	77036	IND	6R	ARR	ARR	ARR		Newkirk,J
	0.0-15.0	77037	IND	6T	ARR	ARR	ARR		O'Keefe,M
	0.0-15.0	77038	IND	6U	ARR	ARR	ARR		O'Malley,R
	0.0-15.0	77039	IND	6V	ARR	ARR	ARR		Richards,V
	0.0-15.0	77040	IND	6W	ARR	ARR	ARR		Schlesinger,M
	0.0-15.0	77041	IND	6X	ARR	ARR	ARR		Smith,J
	0.0-15.0	77042	IND	6Y	ARR	ARR	ARR		Switzer,J
	0.0-15.0	77062	IND	6Z	ARR	ARR	ARR		Van Aken,D
	0.0-15.0	77339	IND	6AA	ARR	ARR	ARR		Schwartz,R
	0.0-15.0	77343	IND	6BB	ARR	ARR	ARR		Watts,J
	0.0-15.0	77345	IND	6CC	ARR	ARR	ARR		Wen,H
	0.0-15.0	77766	IND	6DD	ARR	ARR	ARR		Xing,Y
	0.0-15.0	77767	IND	6EE	ARR	ARR	ARR		Xu,M
	0.0-15.0	78059	IND	6FF	ARR	ARR	ARR		Zhou,C
6110 Bonding, Crystallography, and Structure-Property Relationships Prerequisite: Graduate standing, or undergraduate standing with instructor and advisor approval.	3.0- 3.0	76840	LEC	1A	MWF	11:00 - 11:50 am	MCNT	00245	Huebner,W
6310 Biomaterials II Prerequisite: Graduate Standing. (Co-listed with BIO SCI 6210, CHEM ENG 6300)	3.0- 3.0	77281	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00256	Jung,S

Mathematics

1101	Introduction To Mathematics Required of Fall Semester Freshman Math Majors	1.0- 1.0	75214	LEC	1A	W	03:00 - 03:50 pm	ROLLA	000G4	Runnion,P
1103	Fundamentals Of Algebra Prerequisite: Entrance requirements.	3.0- 3.0	75221	LEC	1A	MWF	08:00 - 08:50 am	CS	00205	
		3.0- 3.0	75222	LEC	1B	MWF	11:00 - 11:50 am	ROLLA	000G5	
		3.0- 3.0	76424	LEC	1D	MWF	02:00 - 02:50 pm	TMH	00254	
		3.0- 3.0	77777	LEC	1E	MWF	02:00 - 02:50 pm	CS	00216	
1110	Introduction To Mathematical Ideas Prerequisite: Two years high school mathematics.	3.0- 3.0	77537	LEC	1A	CANCELLED				
1120	College Algebra By placement exam. Sections E, F, G, H begin Oct 25th.	5.0- 5.0	75215	LEC	1A	MTWThF	08:00 - 08:50 am	BCH	00120	Wilkins,B
		5.0- 5.0	76347	LEC	1B	MTWThF	11:00 - 11:50 am	CS	00202	
						By placement exam. Sections E, F, G, H begin Oct 25th.				
		5.0- 5.0	75217	LEC	1D	MTWThF	02:00 - 02:50 pm	CS	00207	Yeni,G
						By placement exam. Sections E, F, G, H begin Oct 25th.				
		5.0- 5.0	77320	LEC	1H	ARR	ARR	ARR		
						By placement exam. Sections E, F, G, H begin Oct 25th.				
1140	College Algebra Prerequisite: By placement examination.	3.0- 3.0	75223	LEC	1A	MTWThF	08:00 - 08:50 am	MCNT	00211	
						If enrolling in both Math 1140 & Math 1160, enroll in the same lettered section of both courses; e.g., a student registering for Math 1140 section A, must also register for Math 1160, section A. Final exam is scheduled Tues., Oct 23, 4:00-6:00 pm.				
						See 'Notes' for Evening Exams				
		3.0- 3.0	75225	LEC	1D	MTWThF	11:00 - 11:50 am	CSF	00G5E	
						If enrolling in both Math 1140 & Math 1160, enroll in the same lettered section of both courses; e.g., a student registering for Math 1140 section A, must also register for Math 1160, section A. Final exam is scheduled Tues., Oct 23, 4:00-6:00 pm.				
						See 'Notes' for Evening Exams				
		3.0- 3.0	75226	LEC	1E	MTWThF	11:00 - 11:50 am	CS	00203	
						If enrolling in both Math 1140 & Math 1160, enroll in the same lettered section of both courses; e.g., a student registering for Math 1140 section A, must also register for Math 1160, section A. Final exam is scheduled Tues., Oct 23, 4:00-6:00 pm.				
						See 'Notes' for Evening Exams				
		3.0- 3.0	75227	LEC	1G	MTWThF	02:00 - 02:50 pm	BERTELS	00B10	Kinder,K
						If enrolling in both Math 1140 & Math 1160, enroll in the same lettered section of both courses; e.g., a student registering for Math 1140 section A, must also register for Math 1160, section A. Final exam is scheduled Tues., Oct 23, 4:00-6:00 pm.				
						See 'Notes' for Evening Exams				
1160	Trigonometry Prerequisite: Math 1120 or 1140 with a grade of "C" or better; or by placement exam.	2.0- 2.0	75228	LEC	1A	ARR	ARR	ARR		
						Scheduled meeting times and room are same as Math 1140A.				
						Sect A-G begin Oct. 25 for students enrolling in both Math 1140 & 1160. Enroll in the same lettered sect of both courses; E.G.,4A & 6A. Sections K, L, M, N, P begin Sept. 10 for students not enrolled in Math 1140.				
						See 'Notes' for Class Schedule				

2.0-2.0	75230	LEC	1D	ARR	ARR	ARR			
Scheduled meeting times and room are same as Math 1140D.									
Sect A-G begin Oct. 25 for students enrolling in both Math 1140 & 1160. Enroll in the same lettered sect of both courses; E.G.,4A & 6A. Sections K, L, M, N, P begin Sept. 10 for students not enrolled in Math 1140.									
See 'Notes' for Class Schedule									
2.0-2.0	78199	LEC	1E	ARR	ARR	ARR			Fitch,S
Scheduled meeting times and room are same as Math 1140E.									
Sect A-G begin Oct. 25 for students enrolling in both Math 1140 & 1160. Enroll in the same lettered sect of both courses; E.G.,4A & 6A. Sections K, L, M, N, P begin Sept. 10 for students not enrolled in Math 1140.									
See 'Notes' for Class Schedule									
2.0-2.0	75232	LEC	1G	ARR	ARR	ARR			Kinder,K
Scheduled meeting times and room are same as Math 1140G.									
Sect A-G begin Oct. 25 for students enrolling in both Math 1140 & 1160. Enroll in the same lettered sect of both courses; E.G.,4A & 6A. Sections K, L, M, N, P begin Sept. 10 for students not enrolled in Math 1140.									
See 'Notes' for Class Schedule									
2.0-2.0	75233	LEC	1K	MWF	08:00 - 08:50 am	MCNT	00212		
By placement exam. Sections K, L, M, N, and P begin Sept. 10 and are for students not enrolled in Math 1140. Final exam in Math 1160 K, L, M, N, and P Thur., Nov. 15, 4:00-6:00 pm.									
Sect A-G begin Oct. 25 for students enrolling in both Math 1140 & 1160. Enroll in the same lettered sect of both courses; E.G.,4A & 6A. Sections K, L, M, N, P begin Sept. 10 for students not enrolled in Math 1140.									
See 'Notes' for Class Schedule									
See 'Notes' for Evening Exams									
2.0-2.0	75234	LEC	1L	MWF	01:00 - 01:50 pm	BCH	00314		
By placement exam. Sections K, L, M, N, and P begin Sept. 10 and are for students not enrolled in Math 1140. Final exam in Math 1160 K, L, M, N, and P Thur., Nov. 15, 4:00-6:00 pm.									
See 'Notes' for Class Schedule									
See 'Notes' for Evening Exams									
2.0-2.0	75900	LEC	1M	MWF	02:00 - 02:50 pm	TMH	00295		
By placement exam. Sections K, L, M, N, and P begin Sept. 10 and are for students not enrolled in Math 1140. Final exam in Math 1160 K, L, M, N, and P Thur., Nov. 15, 4:00-6:00 pm.									
See 'Notes' for Class Schedule									
See 'Notes' for Evening Exams									
2.0-2.0	76560	LEC	1N	MWF	01:00 - 01:50 pm	FUL	00227		
By placement exam. Sections K, L, M, N, and P begin Sept. 10 and are for students not enrolled in Math 1140. Final exam in Math 1160 K, L, M, N, and P Thur., Nov. 15, 4:00-6:00 pm.									
See 'Notes' for Class Schedule									
See 'Notes' for Evening Exams									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	2.0- 2.0	76600	LEC	1P	MWF	08:00 - 08:50 am	CSF	00G5E	
									By placement exam. Sections K, L, M, N, and P begin Sept. 10 and are for students not enrolled in Math 1140. Final exam in Math 1160 K, L, M, N, and P Thur., Nov. 15, 4:00-6:00 pm. See 'Notes' for Class Schedule See 'Notes' for Evening Exams
1212 Business Calculus	4.0- 4.0		LEC	1A	MWF	02:00 - 02:50 pm	BCH	00314	Fitch,S
Prerequisite: A grade of "C" or better in either 1120 or Math 1140; or by placement exam.	4.0- 4.0	75236	LAB	3A1	TTh	02:00 - 02:50 pm	BCH	00314	Fitch,S
1214 Calculus For Engineers I	0.0- 0.0	76899	LEC	1A	MWF	09:00 - 09:50 am	TMH	00199	
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., Sept. 11; Tues., Oct. 9; Tues., Oct. 30; and Tues., Dec. 4. Students in Math 1214 must enroll in a lab first and then lecture. See 'Notes' for Evening Exams
	0.0- 0.0	76900	LEC	1B	MWF	10:00 - 10:50 am	TMH	00199	Fitch,S
									All students in Math 1214 are scheduled for exams at 5:00pm on Tues., Sept. 11; Tues., Oct. 9; Tues., Oct. 30; and Tues., Dec. 4. Students in Math 1214 must enroll in a lab first and then lecture. See 'Notes' for Evening Exams
	0.0- 0.0	76901	LEC	1C	MWF	11:00 - 11:50 am	TMH	00199	
									All students in Math 1214 are scheduled for exams at 5:00pm on Tues., Sept. 11; Tues., Oct. 9; Tues., Oct. 30; and Tues., Dec. 4. Students in Math 1214 must enroll in a lab first and then lecture. See 'Notes' for Evening Exams
	0.0- 0.0	77070	LEC	1D	MWF	12:00 - 12:50 pm	BCH	00125	
									All students in Math 1214 are scheduled for exams at 5:00pm on Tues., Sept. 11; Tues., Oct. 9; Tues., Oct. 30; and Tues., Dec. 4. Students in Math 1214 must enroll in a lab first and then lecture. See 'Notes' for Evening Exams
	4.0- 4.0	76902	LAB	3A	T	08:00 - 09:15 am	ROLLA	000G5	
									See 'Notes' for Evening Exams
	4.0- 4.0	76903	LAB	3B	T	09:30 - 10:45 am	ROLLA	000G5	
									See 'Notes' for Evening Exams
	4.0- 4.0	76904	LAB	3C	T	09:30 - 10:45 am	CS	00204	
									See 'Notes' for Evening Exams
	4.0- 4.0	76905	LAB	3D	T	11:00 - 12:15 pm	EECH	00112	
									See 'Notes' for Evening Exams
	4.0- 4.0	76906	LAB	3E	T	12:30 - 01:45 pm	EECH	00104	
									See 'Notes' for Evening Exams
	4.0- 4.0	76907	LAB	3F	T	12:30 - 01:45 pm	CS	00202	
									See 'Notes' for Evening Exams
	4.0- 4.0	76908	LAB	3G	T	02:00 - 03:15 pm	EECH	00101	
									See 'Notes' for Evening Exams
	4.0- 4.0	76909	LAB	3H	T	02:00 - 03:15 pm	ROLLA	000G5	
									See 'Notes' for Evening Exams
	4.0- 4.0	76910	LAB	3J	Th	08:00 - 09:15 am	ROLLA	000G5	
									See 'Notes' for Evening Exams
	4.0- 4.0	76911	LAB	3K	Th	09:30 - 10:45 am	ROLLA	000G5	
									See 'Notes' for Evening Exams
	4.0- 4.0	76912	LAB	3L	Th	09:30 - 10:45 am	CS	00204	
									See 'Notes' for Evening Exams
	4.0- 4.0	76913	LAB	3M	Th	11:00 - 12:15 pm	EECH	00112	
									See 'Notes' for Evening Exams
	4.0- 4.0	76914	LAB	3N	Th	12:30 - 01:45 pm	EECH	00104	
									See 'Notes' for Evening Exams

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.

4.0-4.0	76915	LAB	3P	Th	03:30 - 04:45 pm	BCH	00101		
		See 'Notes' for Evening Exams							
4.0-4.0	76916	LAB	3Q	Th	02:00 - 03:15 pm	EECH	00101		
		See 'Notes' for Evening Exams							
4.0-4.0	76917	LAB	3R	Th	02:00 - 03:15 pm	ROLLA	000G5		
		See 'Notes' for Evening Exams							
4.0-4.0	77071	LAB	3T	T	06:00 - 07:15 pm	BCH	00216		
		See 'Notes' for Evening Exams							
4.0-4.0	77072	LAB	3U	T	07:30 - 08:45 pm	BCH	00216		
		See 'Notes' for Evening Exams							
4.0-4.0	77073	LAB	3V	Th	06:00 - 07:15 pm	BCH	00216		
		See 'Notes' for Evening Exams							
4.0-4.0	77074	LAB	3W	Th	07:30 - 08:45 pm	BCH	00216		
		See 'Notes' for Evening Exams							
0.0-0.0	77170	LEC	1A	MWF	09:00 - 09:50 am	BCH	00120	Ong,V	
		All students in Math 1215 are scheduled for exams at 5:00 pm on Thur., Sept. 6, Thur., Sept 27, Oct. 25 and Thur., Nov. 29. Students in Math 1215 must enroll in a lab first then a lecture.							
		See 'Notes' for Evening Exams							
0.0-0.0	77171	LEC	1B	MWF	10:00 - 10:50 am	BCH	00125	Kinder,K	
		All students in Math 1215 are scheduled for exams at 5:00 pm on Thur., Sept. 6, Thur., Sept 27, Oct. 25 and Thur., Nov. 29. Students in Math 1215 must enroll in a lab first then a lecture.							
		See 'Notes' for Evening Exams							
0.0-0.0	77172	LEC	1C	MWF	01:00 - 01:50 pm	BCH	00125		
		All students in Math 1215 are scheduled for exams at 5:00 pm on Thur., Sept. 6, Thur., Sept 27, Oct. 25 and Thur., Nov. 29. Students in Math 1215 must enroll in a lab first then a lecture.							
		See 'Notes' for Evening Exams							
0.0-0.0	77173	LEC	1D	MWF	02:00 - 02:50 pm	SHNK	000G3		
		All students in Math 1215 are scheduled for exams at 5:00 pm on Thur., Sept. 6, Thur., Sept 27, Oct. 25 and Thur., Nov. 29. Students in Math 1215 must enroll in a lab first then a lecture.							
		See 'Notes' for Evening Exams							
4.0-4.0	77174	LAB	3A	T	08:00 - 09:15 am	CS	00205		
		See 'Notes' for Evening Exams							
4.0-4.0	77175	LAB	3B	T	09:30 - 10:45 am	CS	00205		
		See 'Notes' for Evening Exams							
4.0-4.0	77176	LAB	3C	T	11:00 - 12:15 pm	CS	00205		
		See 'Notes' for Evening Exams							
4.0-4.0	77177	LAB	3D	T	12:30 - 01:45 pm	CS	00205		
		See 'Notes' for Evening Exams							
4.0-4.0	77178	LAB	3E	T	02:00 - 03:15 pm	EECH	00103		
		See 'Notes' for Evening Exams							
4.0-4.0	77179	LAB	3F	T	03:30 - 04:45 pm	CS	00205		
		See 'Notes' for Evening Exams							
4.0-4.0	77180	LAB	3G	T	06:00 - 07:15 pm	CS	00205		
		See 'Notes' for Evening Exams							
4.0-4.0	77181	LAB	3H	T	07:30 - 08:45 pm	CS	00205		
		See 'Notes' for Evening Exams							
4.0-4.0	77182	LAB	3J	Th	08:00 - 09:15 am	CS	00205		
		See 'Notes' for Evening Exams							
4.0-4.0	77183	LAB	3K	Th	09:30 - 10:45 am	CS	00205		
		See 'Notes' for Evening Exams							
4.0-4.0	77184	LAB	3L	Th	11:00 - 12:15 pm	CS	00205		
		See 'Notes' for Evening Exams							
4.0-4.0	77185	LAB	3M	Th	12:30 - 01:45 pm	CS	00205		
		See 'Notes' for Evening Exams							
4.0-4.0	77186	LAB	3N	Th	02:00 - 03:15 pm	EECH	00103		
		See 'Notes' for Evening Exams							
4.0-4.0	77187	LAB	3P	Th	12:30 - 01:45 pm	CS	00203		
		See 'Notes' for Evening Exams							

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2222 Calculus with Analytic Geometry III Prerequisites: Math 1215 or Math 1221 with a grade of "C" or better.	4.0- 4.0	77188	LAB	3Q	Th	06:00 - 07:15 pm	CS	00205	
									See 'Notes' for Evening Exams
	4.0- 4.0	77189	LAB	3R	Th	07:30 - 08:45 pm	CS	00205	
									See 'Notes' for Evening Exams
	4.0- 4.0	77190	LAB	3T	T	02:00 - 03:15 pm	EECH	00112	
									See 'Notes' for Evening Exams
	4.0- 4.0	77191	LAB	3U	T	03:30 - 04:45 pm	BCH	00101	
									See 'Notes' for Evening Exams
	4.0- 4.0	77192	LAB	3V	Th	02:00 - 03:15 pm	EECH	00112	
									See 'Notes' for Evening Exams
	4.0- 4.0	77193	LAB	3W	Th	02:00 - 03:15 pm	CS	00204	
									See 'Notes' for Evening Exams
	0.0- 0.0	77194	LEC	1A	MWF	11:00 - 11:50 am	BCH	00125	Bohner,M
									All students in Math 2222 are scheduled for exams at 5:00pm on Mon., Sept. 17; Mon., Oct. 15; Mon., Nov. 5, and Mon., Dec. 3. Students in Math 2222 must enroll in a lab first then a lecture.
									See 'Notes' for Evening Exams
	0.0- 0.0	77195	LEC	1B	MWF	12:00 - 12:50 pm	BERTELS	00B10	Grow,D
									All students in Math 2222 are scheduled for exams at 5:00pm on Mon., Sept. 17; Mon., Oct. 15; Mon., Nov. 5, and Mon., Dec. 3. Students in Math 2222 must enroll in a lab first then a lecture.
									See 'Notes' for Evening Exams
	0.0- 0.0	77196	LEC	1C	MWF	01:00 - 01:50 pm	EECH	00G31	Brigham,R
									All students in Math 2222 are scheduled for exams at 5:00pm on Mon., Sept. 17; Mon., Oct. 15; Mon., Nov. 5, and Mon., Dec. 3. Students in Math 2222 must enroll in a lab first then a lecture.
									See 'Notes' for Evening Exams
	4.0- 4.0	77197	LAB	3A	T	08:00 - 09:15 am	CSF	00G5D	
								See 'Notes' for Evening Exams	
4.0- 4.0	77198	LAB	3B	T	09:30 - 10:45 am	CSF	00G5E		
								See 'Notes' for Evening Exams	
4.0- 4.0	77199	LAB	3C	T	11:00 - 12:15 pm	CSF	00G5D		
								See 'Notes' for Evening Exams	
4.0- 4.0	77200	LAB	3D	T	12:30 - 01:45 pm	CSF	00G5E		
								See 'Notes' for Evening Exams	
4.0- 4.0	77201	LAB	3E	T	02:00 - 03:15 pm	CSF	00G5D		
								See 'Notes' for Evening Exams	
4.0- 4.0	77202	LAB	3F	T	03:30 - 04:45 pm	CSF	00G5D		
								See 'Notes' for Evening Exams	
4.0- 4.0	77203	LAB	3G	T	06:00 - 07:15 pm	CSF	00G5D		
								See 'Notes' for Evening Exams	
4.0- 4.0	77204	LAB	3H	T	07:30 - 08:45 pm	CSF	00G5D		
								See 'Notes' for Evening Exams	
4.0- 4.0	77205	LAB	3J	Th	08:00 - 09:15 am	CSF	00G5D		
								See 'Notes' for Evening Exams	
4.0- 4.0	77206	LAB	3K	Th	09:30 - 10:45 am	CSF	00G5E		
								See 'Notes' for Evening Exams	
4.0- 4.0	77207	LAB	3L	Th	11:00 - 12:15 pm	CSF	00G5D		
								See 'Notes' for Evening Exams	
4.0- 4.0	77208	LAB	3M	Th	12:30 - 01:45 pm	CSF	00G5E		
								See 'Notes' for Evening Exams	
4.0- 4.0	77209	LAB	3N	Th	02:00 - 03:15 pm	CSF	00G5D		
								See 'Notes' for Evening Exams	
4.0- 4.0	77210	LAB	3P	Th	03:30 - 04:45 pm	CSF	00G5D		
								See 'Notes' for Evening Exams	
4.0- 4.0	77211	LAB	3Q	Th	06:00 - 07:15 pm	CSF	00G5D		
								See 'Notes' for Evening Exams	
4.0- 4.0	77212	LAB	3R	Th	07:30 - 08:45 pm	CSF	00G5D		
								See 'Notes' for Evening Exams	
3108 Linear Algebra I Prerequisite: Math 1215 or 1221 or 2222 with a grade of "C" or better.	3.0- 3.0	75242	LEC	1A	MWF	08:00 - 08:50 am	ROLLA	000G5	Ong,V
	3.0- 3.0	75915	LEC	1B	MWF	09:00 - 09:50 am	ROLLA	000G5	Murphy,J
	3.0- 3.0	75916	LEC	1C	MWF	01:00 - 01:50 pm	PHYS	00104	Clark,S
	3.0- 3.0	75243	LEC	1D	MWF	02:00 - 02:50 pm	MCNT	00206	Brigham,R

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
3109 Foundations Of Mathematics Prerequisite: Math 1215 or 1221 with a grade of "C" or better.	3.0- 3.0	75754	LEC	1A	MWF	02:00 - 02:50 pm	ROLLA	000G5	Insall,E	
									Communication Intensive	
3304 Elementary Differential Equations Prerequisite: Math 2222 with a grade of "C" or better.	3.0- 3.0	75238	LEC	1A	MWF	09:00 - 09:50 am	BCH	00121	Han,D	
									All students in Math 3304 are scheduled for exams at 5:00pm on Thurs., Sept. 20, Thurs., Oct. 25, and Thurs., Nov. 29.	
									See 'Notes' for Evening Exams	
	3.0- 3.0	75239	LEC	1B	MWF	10:00 - 10:50 am	BCH	00216	Singler,J	
									All students in Math 3304 are scheduled for exams at 5:00pm on Thurs., Sept. 20, Thurs., Oct. 25, and Thurs., Nov. 29.	
									See 'Notes' for Evening Exams	
	3.0- 3.0	75780	LEC	1C	MWF	10:00 - 10:50 am	EECH	00103	Hu,W	
									All students in Math 3304 are scheduled for exams at 5:00pm on Thurs., Sept. 20, Thurs., Oct. 25, and Thurs., Nov. 29.	
									See 'Notes' for Evening Exams	
	3.0- 3.0	75240	LEC	1D	MWF	11:00 - 11:50 am	BCH	00101	Insall,E	
									All students in Math 3304 are scheduled for exams at 5:00pm on Thurs., Sept. 20, Thurs., Oct. 25, and Thurs., Nov. 29.	
									See 'Notes' for Evening Exams	
	3.0- 3.0	76345	LEC	1E	MWF	11:00 - 11:50 am	BCH	00314	Akin,E	
									All students in Math 3304 are scheduled for exams at 5:00pm on Thurs., Sept. 20, Thurs., Oct. 25, and Thurs., Nov. 29.	
									See 'Notes' for Evening Exams	
	3.0- 3.0	76250	LEC	1F	MWF	01:00 - 01:50 pm	CSF	00G5E	Jiang,N	
									All students in Math 3304 are scheduled for exams at 5:00pm on Thurs., Sept. 20, Thurs., Oct. 25, and Thurs., Nov. 29.	
									See 'Notes' for Evening Exams	
	3.0- 3.0	75241	LEC	1G	TTh	09:30 - 10:45 am	CSF	00G5D	Zhang,Y	
									All students in Math 3304 are scheduled for exams at 5:00pm on Thurs., Sept. 20, Thurs., Oct. 25, and Thurs., Nov. 29.	
									See 'Notes' for Evening Exams	
	3.0- 3.0	75914	LEC	1H	TTh	11:00 - 12:15 pm	ROLLA	000G5		
									All students in Math 3304 are scheduled for exams at 5:00pm on Thurs., Sept. 20, Thurs., Oct. 25, and Thurs., Nov. 29.	
									See 'Notes' for Evening Exams	
	3.0- 3.0	76561	LEC	1J	MWF	11:00 - 11:50 am	BCH	00216	Singler,J	
									All students in Math 3304 are scheduled for exams at 5:00pm on Thurs., Sept. 20, Thurs., Oct. 25, and Thurs., Nov. 29.	
									See 'Notes' for Evening Exams	
3921 Teaching Math in Elementary and Middle Schools Prerequisite: Math 1120 or Math 1140. (Co-listed with Educ 3221)	3.0- 3.0	77884	LEC	1A	CANCELLED					
3922 Geometric Concepts for Elementary Teachers Prerequisites: Math 1120 or Math 1140. (Co-listed with Educ 3222)	3.0- 3.0	76839	LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00235	Welch,M	
4000 Special Problems	0.0- 6.0	75245	IND	6A	ARR	ARR	ARR		He,X	
	0.0- 6.0	75244	IND	6B	ARR	ARR	ARR		Insall,E	
	0.0- 6.0	76535	IND	6C	ARR	ARR	ARR		Roe,R	
4099 Undergraduate Research	0.0- 6.0	75951	IND	6A	ARR	ARR	ARR		Charatonik,W	
	0.0- 6.0	75251	IND	6B	ARR	ARR	ARR		Insall,E	
	0.0- 6.0	75868	IND	6C	ARR	ARR	ARR		Roe,R	
4209 Advanced Calculus I Prerequisite: Math 2222 and Math 3109, or a 4000-level or higher mathematics course, or graduate standing.	3.0- 3.0	75248	LEC	1A	MWF	02:00 - 02:50 pm	EECH	00111	Grow,D	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4211 Advanced Calculus II Prerequisite: Math 4209.	3.0- 3.0	76201	LEC	1A	MWF	02:00 - 02:50 pm	MCNT	00210	Charatonik,W
5000 Special Problems	0.0- 6.0	77785	IND	6A	ARR	ARR	ARR		Insall,E
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	75264	IND	6A	ARR	ARR	ARR		Clark,S
5105 Modern Algebra I Prerequisite: Math 3109 or graduate standing; preceded or accompanied by Math 3108.	3.0- 3.0	75247	LEC	1A	TTh	11:00 - 12:15 pm	ROLLA	000G4	Chen-Murphy,X
5302 Intermediate Differential Equations Prerequisite: Math 3304 or Math 3329.	3.0- 3.0	75246	LEC	1A	MWF	09:00 - 09:50 am	IDE	000G4A	Akin,E
5325 Partial Differential Equations Prerequisite: Math 3304 with a grade of "C" or better.	3.0- 3.0	75249	LEC	1A	MWF	10:00 - 10:50 am	ROLLA	000G5	Jiang,N
5351 Introduction To Complex Variables Prerequisite: Math 3304.	3.0- 3.0	75250	LEC	1A	MWF	12:00 - 12:50 pm	ROLLA	000G4	Hu,W
5603 Methods of Applied Mathematics Prerequisites: Math 3304 or 3329 with a grade of "C" or better, programming competency.	3.0- 3.0	78184	LEC	1A	ARR	ARR	ARR		Han,D
5604 Introduction to Numerical Methods for Differential Equations Prerequisites: MATH 3304 and programming competency (preferably Matlab).	3.0- 3.0	77567	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00203	Zhang, Y
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	78246	LEC	1A	MWF	01:00 - 01:50 pm	ROLLA	000G5	Bohner,M
6000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	75254	IND	6A	ARR	ARR	ARR		Akin,E
	0.0- 6.0	75253	IND	6B	ARR	ARR	ARR		Bohner,M
	0.0- 6.0	75252	IND	6C	ARR	ARR	ARR		Grow,D
	0.0- 6.0	76225	IND	6D	ARR	ARR	ARR		Insall,E
6010 Graduate Seminar Prerequisite: Graduate standing.	1.0- 3.0	75899	RSD	2A	ARR	ARR	ARR		Bohner,M
	1.0- 3.0	75255	RSD	2B	ARR	ARR	ARR		He,X
	1.0- 3.0	75256	RSD	2C	W	04:00 - 06:00 pm	ROLLA	000G4	Samaranayake,V
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	75265	IND	6A	ARR	ARR	ARR		Clark,S
6099 Research Prerequisite: Consent of instructor required.	0.0-15.0	75257	IND	6A	ARR	ARR	ARR		Akin,E
	0.0-15.0	75262	IND	6B	ARR	ARR	ARR		Bohner,M
	0.0-15.0	75258	IND	6C	ARR	ARR	ARR		Charatonik,W
	0.0-15.0	75259	IND	6D	ARR	ARR	ARR		Grow,D
	0.0-15.0	75260	IND	6E	ARR	ARR	ARR		He,X
	0.0-15.0	75261	IND	6F	ARR	ARR	ARR		Insall,E
	0.0-15.0	75769	IND	6G	ARR	ARR	ARR		Jiang,N
	0.0-15.0	75263	IND	6H	ARR	ARR	ARR		Le,V
	0.0-15.0	75902	IND	6J	ARR	ARR	ARR		Morgan,I
	0.0-15.0	76154	IND	6K	ARR	ARR	ARR		Roe,R
	0.0-15.0	76355	IND	6L	ARR	ARR	ARR		Singler,J
	0.0-15.0	76802	IND	6M	ARR	ARR	ARR		Zhang, Y
6108 Applied Matrix Theory Prerequisites: Math 3103, 3108, or 5302.	3.0- 3.0	78185	LEC	1A	TTh	02:00 - 03:15 pm	H-SS	00204	Chen-Murphy,X
6330 Theory Of Differential Equations I Prerequisite: Math 5302.	3.0- 3.0	78186	LEC	1A	CANCELLED				
6461 Harmonic Analysis I Prerequisites: Math 5215 and Math 5351.	3.0- 3.0	78183	LEC	1A	MWF	11:00 - 11:50 am	ROLLA	000G4	Murphy,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6601 Numerical Analysis Prerequisites: Any 4000 or higher level MATH course, or any instructor approved 4000 or higher level course from another discipline with a significant computational component.	3.0- 3.0	76938	LEC	1A	MWF	01:00 - 01:50 pm	EECH	00239	He,X
6602 Mathematical Foundation of Finite Element Methods Prerequisites: Any 4000 or higher level Mathematics course, or any instructor approved 4000 or higher level course from another discipline with a significant computational component.	3.0- 3.0	78187	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00102	He,X
	3.0- 3.0	78281	LEC	1DIS	MWF	09:00 - 09:50 am	ARR		He,X
6665 Mathematical Programming Prerequisites: Stat 3113 or equivalent and (Eng Mgt 5414 or Math 3103 or Math 3108). (Co-listed with Eng Mgt 6412)	3.0- 3.0	77903	LEC	1A	CANCELLED				

Mechanical Engineering

1720 Introduction to Engineering Design	0.0- 0.0	76165	LEC	1A	M	08:00 - 08:50 am	EECH	00G31	Schmidt,J
									Students must enroll in a lecture and a lab. See 'Notes'-Additional Meeting
	0.0- 0.0	76166	LEC	1B	M	02:00 - 02:50 pm	EECH	00G31	Schmidt,J
									Students must enroll in a lecture and a lab. See 'Notes'-Additional Meeting
	0.0- 0.0	76168	LEC	1D	T	02:00 - 02:50 pm	BCH	00125	Schmidt,J
									Students must enroll in a lecture and a lab. See 'Notes'-Additional Meeting
	3.0- 3.0	76301	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	76169	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	76170	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	76171	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	76172	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	76173	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	76174	LAB	3H	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	76175	LAB	3J	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	76176	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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	3.0- 3.0	76177	LAB	3L	F	01:00 - 01:50 pm	CH	00105	Schmidt,J
									Additional lab time for software coverage will be by independent study.
	3.0- 3.0	76178	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	3.0- 3.0	74615	LEC	1A	MWF	03:00 - 03:50 pm	CS	00209	Buckholtz,K
									Prerequisites: A grade of "C" or better in Physics 1135 or Physics 1111; preceded or accompanied by Math 2222.
2350	2.0- 2.0	74616	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	3.0- 3.0	75741	LEC	1A	MWF	08:00 - 08:50 am	TMH	00254	Du,X
	3.0- 3.0	75742	LEC	1B	MWF	09:00 - 09:50 am	TMH	00254	Du,X
	3.0- 3.0	77243	LEC	1C	TTh	09:30 - 10:45 am	BERTELS	00112B	
			LEC	1C	TTh	09:30 - 10:45 am	BERTELS	00112A	Kumar,N
									Prerequisite: Grade of "C" or better in each of Civ Eng 2200, Math 2222. (Co-listed with Aero Eng 2360)
2519	3.0- 3.0	76405	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00254	Meeks,W
	3.0- 3.0	75281	LEC	1B	MWF	09:00 - 09:50 am	TMH	00250	Crosbie,A
	3.0- 3.0	75282	LEC	1C	MWF	10:00 - 10:50 am	TMH	00254	Pan,H
	3.0- 3.0	75283	LEC	1D	MWF	11:00 - 11:50 am	TMH	00295	Pan,H
									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 1214 (or Math 1208), Math 1215 (or Math 1221), Math 2222, and Physics 1135.
2527	3.0- 3.0	75286	LEC	1A	TTh	08:00 - 09:15 am	TMH	00199	Meeks,W
									Prerequisites: Math 1215 (or 1221), Physics 1135.
2653	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	TMH	00199	Schmid,K
	3.0- 3.0	75267	LAB	3A	M	01:00 - 03:30 pm	TMH	00176	Lewis,R
	3.0- 3.0	75268	LAB	3B	M	04:00 - 06:30 pm	TMH	00176	Lewis,R
	3.0- 3.0	75269	LAB	3C	Th	08:15 - 10:45 am	TMH	00176	Lewis,R
									See 'Notes'-Additional Meeting
	3.0- 3.0	75270	LAB	3D	T	12:00 - 02:30 pm	TMH	00176	Lewis,R
	3.0- 3.0	75271	LAB	3F	T	03:00 - 05:30 pm	TMH	00176	Lewis,R
	3.0- 3.0	75852	LAB	3G	W	01:00 - 03:30 pm	TMH	00176	Lewis,R
	3.0- 3.0	75272	LAB	3H	Th	12:00 - 02:30 pm	TMH	00176	Lewis,R
	3.0- 3.0	75877	LAB	3J	Th	03:00 - 05:30 pm	TMH	00176	Lewis,R
	3.0- 3.0	75895	LAB	3K	F	01:00 - 03:30 pm	TMH	00176	Lewis,R
2761	3.0- 3.0		LEC	1AA	MW	03:00 - 03:50 pm	SHNK	000G3	Hutcheson,R
	3.0- 3.0	75274	LAB	3A	F	01:00 - 01:50 pm	ARR		Hutcheson,R
									Additional meeting time to be arranged.
									See 'Notes'-Additional Meeting
	3.0- 3.0	75275	LAB	3B	F	02:00 - 02:50 pm	ARR		Hutcheson,R
									Additional meeting time to be arranged.
									See 'Notes'-Additional Meeting
	3.0- 3.0	75975	LAB	3C	F	03:00 - 03:50 pm	ARR		Hutcheson,R
									Additional meeting time to be arranged.
									See 'Notes'-Additional Meeting
	3.0- 3.0	77081	LAB	3D	F	12:00 - 12:50 pm	ARR		Hutcheson,R
									Additional meeting time to be arranged.
									See 'Notes'-Additional Meeting
3002	0.0- 6.0	75276	IND	6A	ARR	ARR	ARR		Nisbett,J
3131	3.0- 3.0	75287	LEC	1A	TTh	08:00 - 09:15 am	BERTELS	00112B	
			LEC	1A	TTh	08:00 - 09:15 am	BERTELS	00112A	Kumar,N
									Prerequisite: A grade of "C" or better in Mech Eng 2519.
	3.0- 3.0	75288	LEC	1B	TTh	11:00 - 12:15 pm	TMH	00254	Wang,C
3313	3.0- 3.0	75279	LEC	1A	MWF	10:00 - 10:50 am	TMH	00295	Hutcheson,R
	3.0- 3.0	77341	LEC	1C	TTh	12:30 - 01:45 pm	BCH	00120	Nisbett,J
									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, Mech Eng 2360 (or Aero Eng 2360), Math 1214 (or Math 1208), Math 1215 (or Math 1221), Math 2222, and Physics 1135.

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3411 Modeling and Analysis of Dynamic Systems 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, Mech Eng 2360 (or Aero Eng 2360), Math 1214 (or Math 1208), Math 1215 (or Math 1221), Math 2222, Math 3304, Physics 1135, Physics 2135.	3.0- 3.0	75277	LEC	1A	MWF	08:00 - 08:50 am	TMH	00199	Landers,R
	3.0- 3.0	75278	LEC	1B	MWF	10:00 - 10:50 am	CH	00104	Kumar,N
3521 Applied Thermodynamics Prerequisite: A grade of "C" or better in Mech Eng 2519.	3.0- 3.0	77246	LEC	1A	TTh	08:00 - 09:15 am	TMH	00295	Drallmeier,J
	3.0- 3.0	75284	LEC	1B	TTh	11:00 - 12:15 pm	TMH	00295	Koylu,U
3525 Heat Transfer	3.0- 3.0	76406	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00199	Kinzel,E
3653 Manufacturing Prerequisites: Mech Eng 2653, Civ Eng 2211, and a grade of "C" or better in Civ Eng 2210.	3.0- 3.0	75296	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00256	Okafor,A
	3.0- 3.0	77083	LEC	1B	TTh	02:00 - 03:15 pm	TMH	00256	Chen,L
3708 Machine Design I 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	76798	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00101	Dong,X
	3.0- 3.0	77720	LEC	1B	TTh	09:30 - 10:45 am	H-SS	000G5	Park,J
4000 Special Problems	0.0- 6.0	75304	IND	6A	ARR	ARR	ARR		Hutcheson,R
	0.0- 6.0	76271	IND	6B	ARR	ARR	ARR		Nisbett,J
4099 Undergraduate Research	0.0- 6.0	75316	IND	6A	ARR	ARR	ARR		Bristow,D
	0.0- 6.0	75317	IND	6B	ARR	ARR	ARR		Carroll,D
	0.0- 6.0	75318	IND	6C	ARR	ARR	ARR		Chandrashekhara,K
	0.0- 6.0	75319	IND	6D	ARR	ARR	ARR		Crosbie,A
	0.0- 6.0	75320	IND	6E	ARR	ARR	ARR		Dharani,L
	0.0- 6.0	75321	IND	6F	ARR	ARR	ARR		Drallmeier,J
	0.0- 6.0	75322	IND	6G	ARR	ARR	ARR		Du,X
	0.0- 6.0	75323	IND	6H	ARR	ARR	ARR		Gao,J
	0.0- 6.0	75324	IND	6J	ARR	ARR	ARR		Homan,K
	0.0- 6.0	75325	IND	6K	ARR	ARR	ARR		Isaac,K
	0.0- 6.0	75326	IND	6L	ARR	ARR	ARR		Kinzel,E
	0.0- 6.0	75327	IND	6M	ARR	ARR	ARR		Krishnamurthy,K
	0.0- 6.0	75328	IND	6N	ARR	ARR	ARR		Landers,R
	0.0- 6.0	75329	IND	6P	ARR	ARR	ARR		Leu,M
	0.0- 6.0	75330	IND	6Q	ARR	ARR	ARR		Liou,F
	0.0- 6.0	75331	IND	6R	ARR	ARR	ARR		Midha,A
	0.0- 6.0	75332	IND	6T	ARR	ARR	ARR		Nisbett,J
	0.0- 6.0	75333	IND	6U	ARR	ARR	ARR		Okafor,A
0.0- 6.0	75334	IND	6V	ARR	ARR	ARR		Pan,H	
0.0- 6.0	75335	IND	6W	ARR	ARR	ARR		Park,J	
0.0- 6.0	75336	IND	6X	ARR	ARR	ARR		Song,Y	
0.0- 6.0	75337	IND	6Y	ARR	ARR	ARR		Stutts,D	
0.0- 6.0	75338	IND	6Z	ARR	ARR	ARR		Tsai,H	
0.0- 6.0	75339	IND	6AA	ARR	ARR	ARR		Wang,C	
0.0- 6.0	76592	IND	6BB	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	75299	LEC	1A	MWF	01:00 - 01:50 pm	BCH	00124	Song,Y
	3.0- 3.0	77247	LEC	1B	MWF	10:00 - 10:50 am	BCH	00101	Krishnamurthy,K
	3.0- 3.0	77248	LEC	1C	MWF	11:00 - 11:50 am	IDE	00105	Krishnamurthy,K
4480 Control System Laboratory Prerequisites: Preceded or accompanied by Mech Eng 4479. Lectures are scheduled 4:00-4:50pm in an arranged location on Mon and Wed the first week of classes. Labs begin the second week.	1.0- 1.0	75300	LAB	3A	M	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S
	1.0- 1.0	75301	LAB	3B	T	09:30 - 12:20 pm	TMH	00216	Balakrishnan,S

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	1.0- 1.0	75302	LAB	3C	T	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S
						Students are scheduled for one exam: Time and place to be announced.			
						See 'Notes'-Additional Meeting			
						See 'Notes' for Evening Exams			
	1.0- 1.0	75303	LAB	3D	W	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S
						Students are scheduled for one exam: Time and place to be announced.			
						See 'Notes'-Additional Meeting			
						See 'Notes' for Evening Exams			
	1.0- 1.0	76164	LAB	3E	Th	09:30 - 12:20 pm	TMH	00216	Balakrishnan,S
						Students are scheduled for one exam: Time and place to be announced.			
						See 'Notes'-Additional Meeting			
						See 'Notes' for Evening Exams			
	1.0- 1.0	75756	LAB	3F	Th	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S
						Students are scheduled for one exam: Time and place to be announced.			
						See 'Notes'-Additional Meeting			
						See 'Notes' for Evening Exams			
	1.0- 1.0	76540	LAB	3G	M	06:00 - 08:50 pm	TMH	00216	Balakrishnan,S
						Students are scheduled for one exam: Time and place to be announced.			
						See 'Notes'-Additional Meeting			
						See 'Notes' for Evening Exams			
	1.0- 1.0	76725	LAB	3H	W	06:00 - 08:50 pm	TMH	00216	Balakrishnan,S
						Students are scheduled for one exam: Time and place to be announced.			
						See 'Notes'-Additional Meeting			
						See 'Notes' for Evening Exams			
4761	Engineering Design	3.0- 3.0	LEC	1A	T	12:30 - 01:45 pm	TMH	00199	Midha,A
	Prerequisites: Preceded or accompanied each of Mech Eng 3708, 3525, 3131, 4479.	3.0- 3.0	75298	LAB	3A	Th	12:30 - 01:45 pm	TMH	00199
						Additional meeting time to be arranged.			
						See 'Notes'-Additional Meeting			
4840	Mechanical Instrumentation	2.0- 2.0	78290	LAB	3A	F	12:00 - 01:50 pm	TMH	00317
				LAB	3A	MW	02:00 - 02:50 pm	BCH	00125
		2.0- 2.0	75289	LAB	3B	T	09:00 - 10:50 am	TMH	00317
				LAB	3B	MW	02:00 - 02:50 pm	BCH	00125
		2.0- 2.0	75290	LAB	3C	T	11:00 - 12:50 pm	TMH	00317
				LAB	3C	MW	02:00 - 02:50 pm	BCH	00125
		2.0- 2.0	75291	LAB	3D	T	01:00 - 02:50 pm	TMH	00317
				LAB	3D	MW	02:00 - 02:50 pm	BCH	00125
		2.0- 2.0	75976	LAB	3E	MW	02:00 - 02:50 pm	BCH	00125
				LAB	3E	W	03:00 - 04:50 pm	TMH	00317
		2.0- 2.0	77631	LAB	3F	W	12:00 - 01:50 pm	TMH	00317
				LAB	3F	MW	02:00 - 02:50 pm	BCH	00125
		2.0- 2.0	76723	LAB	3G	Th	11:00 - 12:50 pm	TMH	00317
				LAB	3G	MW	02:00 - 02:50 pm	BCH	00125
		2.0- 2.0	75977	LAB	3H	Th	01:00 - 02:50 pm	TMH	00317
				LAB	3H	MW	02:00 - 02:50 pm	BCH	00125
		2.0- 2.0	76017	LAB	3J	MW	02:00 - 02:50 pm	BCH	00125
				LAB	3J	T	03:00 - 04:50 pm	TMH	00317
		2.0- 2.0	77632	LAB	3K	Th	09:00 - 10:50 am	TMH	00317
				LAB	3K	MW	02:00 - 02:50 pm	BCH	00125
									Cottrell,M
									Gaja,H
		2.0- 2.0	76163	LAB	3M	MW	02:00 - 02:50 pm	BCH	00125
				LAB	3M	Th	03:00 - 04:50 pm	TMH	00317
4842	Mechanical Engineering Systems	2.0- 2.0	75292	LAB	3A	T	09:00 - 10:50 am	TMH	00316
	Prerequisites: Mech Eng 4840, 3521, 3131, 3525, 3313.					There are lectures on Wednesdays and Fridays during the first three weeks of the semester, and continue on specified Wednesdays thereafter. Lab meetings begin during the second week of the semester.			
						See 'Notes'-Additional Meeting			
						Communication Emphasized			

			LAB 3A	W	03:00 - 03:50 pm	TMH	00199	Stutts,D
			There are lectures on Wednesdays and Fridays during the first three weeks of the semester, and continue on specified Wednesdays thereafter. Lab meetings begin during the second week of the semester.					
			See 'Notes'-Additional Meeting Communication Emphasized					
2.0- 2.0	75293		LAB 3B	M	02:00 - 03:50 pm	TMH	00316	
			There are lectures on Wednesdays and Fridays during the first three weeks of the semester, and continue on specified Wednesdays thereafter. Lab meetings begin during the second week of the semester.					
			See 'Notes'-Additional Meeting Communication Emphasized					
			LAB 3B	W	03:00 - 03:50 pm	TMH	00199	Stutts,D
			There are lectures on Wednesdays and Fridays during the first three weeks of the semester, and continue on specified Wednesdays thereafter. Lab meetings begin during the second week of the semester.					
			See 'Notes'-Additional Meeting Communication Emphasized					
2.0- 2.0	75294		LAB 3C	T	02:00 - 03:50 pm	TMH	00316	
			There are lectures on Wednesdays and Fridays during the first three weeks of the semester, and continue on specified Wednesdays thereafter. Lab meetings begin during the second week of the semester.					
			See 'Notes'-Additional Meeting Communication Emphasized					
			LAB 3C	W	03:00 - 03:50 pm	TMH	00199	Stutts,D
			There are lectures on Wednesdays and Fridays during the first three weeks of the semester, and continue on specified Wednesdays thereafter. Lab meetings begin during the second week of the semester.					
			See 'Notes'-Additional Meeting Communication Emphasized					
2.0- 2.0	78291		LAB 3D	W	03:00 - 03:50 pm	TMH	00199	
			See 'Notes'-Additional Meeting Communication Emphasized					
			LAB 3D	M	04:00 - 05:50 pm	TMH	00316	Stutts,D
			See 'Notes'-Additional Meeting Communication Emphasized					
2.0- 2.0	75295		LAB 3E	Th	02:00 - 03:50 pm	TMH	00316	
			There are lectures on Wednesdays and Fridays during the first three weeks of the semester, and continue on specified Wednesdays thereafter. Lab meetings begin during the second week of the semester.					
			See 'Notes'-Additional Meeting Communication Emphasized					
			LAB 3E	W	03:00 - 03:50 pm	TMH	00199	Stutts,D
			There are lectures on Wednesdays and Fridays during the first three weeks of the semester, and continue on specified Wednesdays thereafter. Lab meetings begin during the second week of the semester.					
			See 'Notes'-Additional Meeting Communication Emphasized					

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	2.0- 2.0	75869	LAB	3F	Th	09:00 - 10:50 am	TMH	00316	Stutts,D	
			There are lectures on Wednesdays and Fridays during the first three weeks of the semester, and continue on specified Wednesdays thereafter. Lab meetings begin during the second week of the semester.							
			See 'Notes'-Additional Meeting Communication Emphasized							
			LAB	3F	W	03:00 - 03:50 pm	TMH	00199		
			There are lectures on Wednesdays and Fridays during the first three weeks of the semester, and continue on specified Wednesdays thereafter. Lab meetings begin during the second week of the semester.							
			See 'Notes'-Additional Meeting Communication Emphasized							
	2.0- 2.0	76119	LAB	3G	W	01:00 - 02:50 pm	TMH	00316	Stutts,D	
			There are lectures on Wednesdays and Fridays during the first three weeks of the semester, and continue on specified Wednesdays thereafter. Lab meetings begin during the second week of the semester.							
			See 'Notes'-Additional Meeting Communication Emphasized							
			LAB	3G	W	03:00 - 03:50 pm	TMH	00199		
			There are lectures on Wednesdays and Fridays during the first three weeks of the semester, and continue on specified Wednesdays thereafter. Lab meetings begin during the second week of the semester.							
			See 'Notes'-Additional Meeting Communication Emphasized							
	2.0- 2.0	76724	LAB	3H	F	01:00 - 02:50 pm	TMH	00316	Stutts,D	
			There are lectures on Wednesdays and Fridays during the first three weeks of the semester, and continue on specified Wednesdays thereafter. Lab meetings begin during the second week of the semester.							
			See 'Notes'-Additional Meeting Communication Emphasized							
			LAB	3H	W	03:00 - 03:50 pm	TMH	00199		
			There are lectures on Wednesdays and Fridays during the first three weeks of the semester, and continue on specified Wednesdays thereafter. Lab meetings begin during the second week of the semester.							
			See 'Notes'-Additional Meeting Communication Emphasized							
5000	Special Problems	0.0- 6.0	75340	IND	6A	ARR	ARR	ARR	Chandrashekhara,K	
		0.0- 6.0	75341	IND	6B	ARR	ARR	ARR	Dharani,L	
		0.0- 6.0	75342	IND	6C	ARR	ARR	ARR	Leu,M	
		0.0- 6.0	75343	IND	6D	ARR	ARR	ARR	Liou,F	
		0.0- 6.0	75344	IND	6E	ARR	ARR	ARR	Midha,A	
5131	Intermediate Thermofluid Mechanics Prerequisite: Mech Eng 3131 or Aero Eng 3131. (Co-listed with Aero Eng 5131)	3.0- 3.0	76484	LEC	1A	MWF	03:00 - 03:50 pm	TMH	00260	Homan,K
5139	Computational Fluid Dynamics Prerequisites: Comp Sci 1570 or 1970 or 1971; one course in fluid mechanics. (Co-listed with Aero Eng 5139)	3.0- 3.0	75308	LEC	1A	MWF	01:00 - 01:50 pm	FUL	00107A	Isaac,K
5212	Introduction to Finite Element Analysis Prerequisite: Mech Eng 3708 or Aero Eng 4253 or consent of instructor for majors that do not require either of these courses, or graduate standing. (Co-listed with Aero Eng 5212)	3.0- 3.0	75306	LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00103	Chandrashekhara,K

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5238 Fatigue Analysis Prerequisite: Civ Eng 2210. (Co-listed with Aero Eng 5238)	3.0- 3.0	78109	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00213	Dharani,L
5307 Vibrations I Prerequisites: Mech Eng 3411 and 3313, or Aero Eng 3613 and Math 3304. (Co-listed with Aero Eng 5307)	3.0- 3.0	76483	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00250	Stutts,D
5313 Intermediate Dynamics Of Mechanical And Aerospace Systems Prerequisite: Mech Eng 3313 or Aero Eng 3613. (Co-listed with Aero Eng 5313)	3.0- 3.0	78224	LEC	1A	TTh	03:30 - 04:45 pm	BCH	00317	DeMars,K
5420 Signal Processing for Instrumentation and Control Prerequisites: Math 3304; Mech Eng 3411 or permission of instructor for non-Mech Eng majors.	3.0- 3.0	77988	LEC	1A	MWF	08:00 - 08:50 am	TMH	00260	Bristow,D
5481 Mechanical And Aerospace Control Systems Prerequisite: Mech Eng 4479 or Aero Eng 3361. (Co-listed with Aero Eng 5481)	3.0- 3.0	75315	LEC	1A	TTh	03:30 - 04:45 pm	BCH	00121	Balakrishnan,S
5525 Intermediate Heat Transfer Prerequisite: Mech Eng 3525. (Co-listed with Aero Eng 5525)	3.0- 3.0	76862	LEC	1A	MWF	11:00 - 11:50 am	TMH	00254	Crosbie,A
5527 Combustion Processes Prerequisite: Mech Eng 3521. (Co-listed with Aero Eng 5527)	3.0- 3.0	76407	LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00B12A	Koylu,U
5570 Plasma Physics I Prerequisite: Aero Eng 3131 or Mech Eng 3131 or Physics 3211 or Nuc Eng 3221 or Elec Eng 3600. (Co-listed with Aero Eng 5570, Nuc Eng 4370, Physics 4543)	3.0- 3.0	77979	LEC	1A	TTh	08:00 - 09:15 am	TMH	00249	Han,D
5571 Environmental Controls Prerequisites: Mech Eng 3521 and accompanied or preceded by Mech Eng 3525; or Mech Eng 2527 and Civ Eng 3330.	3.0- 3.0	78288	LEC	1A	M	07:00 - 09:30 pm	BERTELS	00B12A	Williams JR,G
5653 Computer Numerical Control of Manufacturing Processes Prerequisites: Preceded or accompanied by Mech Eng 3653.	3.0- 3.0 3.0- 3.0 3.0- 3.0	 75310 75311	LEC LAB LAB	1A 3A 3B	MW W F	11:00 - 11:50 am 01:00 - 02:50 pm 10:00 - 11:50 am	TMH TMH TMH	00256 00197 00197	Okafor,A Okafor,A Okafor,A
5708 Rapid Product Design And Optimization Prerequisite: Mech Eng 3708.	3.0- 3.0	75305	LEC	1A	TTh	09:30 - 10:45 am	TMH	00260	Liou,F
5715 Concurrent Engineering Prerequisites: Mech Eng 3313 or Aero Eng 3131, and Civ Eng 2210. (Co-listed with Aero Eng 5715)	3.0- 3.0	75674	LEC	1A	Th	07:00 - 09:30 pm	BERTELS	00B12B	Appelman,H
5763 Principles And Practice Of Computer Aided Design Prerequisites: Comp Sci 1570 or Comp Sci 1970 or Comp Sci 1971, Mech Eng 2761, Math 2222, at least Junior standing.	3.0- 3.0 3.0- 3.0 3.0- 3.0	 75313 75314	LEC LAB LAB	1A 3A 3A 3B	MW M M W	11:00 - 11:50 am 01:00 - 01:50 pm 02:00 - 02:50 pm 01:00 - 02:50 pm	TMH BCH TMH TMH	00260 00213 00200 00200	Leu,M Leu,M Leu,M Leu,M
6000 Special Problems	0.0- 6.0 0.0- 6.0	77056 77355	IND IND	6A 6B	ARR ARR	ARR ARR	ARR ARR		Balakrishnan,S Dharani,L
6001 Special Topics Prerequisites: Mech Eng 5131 or Aero Eng 5131; Mech Eng 5139 or Aero Eng 5139	3.0- 3.0	77986	LEC	1A	MWF	12:00 - 12:50 pm	FUL	00107A	Homan,K
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	75380	IND	6A	ARR	ARR	ARR		
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	75381	IND	6A	ARR	ARR	ARR		
6085 Internship DE students only.	0.0-15.0	75379	IND	6A	ARR	ARR	ARR		
6099 Research Consent of instructor required.	0.0-15.0 0.0-15.0	75345 75346	IND IND	6A 6B	ARR ARR	ARR ARR	ARR ARR		Asle Zaeem,M Balakrishnan,S

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	0.0-15.0	75347	IND	6C	ARR	ARR	ARR		Baur,S	
	0.0-15.0	75348	IND	6D	ARR	ARR	ARR		Bristow,D	
	0.0-15.0	75349	IND	6E	ARR	ARR	ARR		Carroll,D	
	0.0-15.0	75350	IND	6F	ARR	ARR	ARR		Chandrashekhara,K	
	0.0-15.0	75351	IND	6G	ARR	ARR	ARR		Chen,L	
	0.0-15.0	75352	IND	6H	ARR	ARR	ARR		Dharani,L	
	0.0-15.0	75353	IND	6J	ARR	ARR	ARR		Dong,X	
	0.0-15.0	75354	IND	6K	ARR	ARR	ARR		Drallmeier,J	
	0.0-15.0	75355	IND	6L	ARR	ARR	ARR		Du,X	
	0.0-15.0	75356	IND	6M	ARR	ARR	ARR		Duan,L	
	0.0-15.0	75357	IND	6N	ARR	ARR	ARR		Eversman,W	
	0.0-15.0	75358	IND	6P	ARR	ARR	ARR		Gao,J	
	0.0-15.0	75359	IND	6Q	ARR	ARR	ARR		Han,D	
	0.0-15.0	75360	IND	6R	ARR	ARR	ARR		Homan,K	
	0.0-15.0	75361	IND	6T	ARR	ARR	ARR		Hosder,S	
	0.0-15.0	75362	IND	6U	ARR	ARR	ARR		Isaac,K	
	0.0-15.0	75363	IND	6V	ARR	ARR	ARR		Kinzel,E	
	0.0-15.0	75364	IND	6W	ARR	ARR	ARR		Koylu,U	
	0.0-15.0	75365	IND	6X	ARR	ARR	ARR		Krishnamurthy,K	
	0.0-15.0	75366	IND	6Y	ARR	ARR	ARR		Landers,R	
	0.0-15.0	75367	IND	6Z	ARR	ARR	ARR		Leu,M	
	0.0-15.0	75368	IND	6AA	ARR	ARR	ARR		Liou,F	
	0.0-15.0	75369	IND	6BB	ARR	ARR	ARR		Midha,A	
	0.0-15.0	75370	IND	6CC	ARR	ARR	ARR		Nisbett,J	
	0.0-15.0	75371	IND	6DD	ARR	ARR	ARR		Okafor,A	
	0.0-15.0	75372	IND	6EE	ARR	ARR	ARR		Pan,H	
	0.0-15.0	75373	IND	6FF	ARR	ARR	ARR		Park,J	
	0.0-15.0	75374	IND	6GG	ARR	ARR	ARR		Pernicka,H	
	0.0-15.0	75375	IND	6HH	ARR	ARR	ARR		Riggins,D	
	0.0-15.0	75376	IND	6JJ	ARR	ARR	ARR		Schonberg,W	
	0.0-15.0	75378	IND	6KK	ARR	ARR	ARR		Song,Y	
	0.0-15.0	75377	IND	6LL	ARR	ARR	ARR		Stutts,D	
	0.0-15.0	76576	IND	6MM	ARR	ARR	ARR		Tsai,H	
	0.0-15.0	76605	IND	6NN	ARR	ARR	ARR		Venayagamoorthy,G	
	0.0-15.0	77989	IND	6PP	ARR	ARR	ARR		Wang,C	
	0.0-15.0	77990	IND	6QQ	ARR	ARR	ARR		Wojnar,C	
	0.0-15.0	77991	IND	6RR	ARR	ARR	ARR		Yang,R	
	0.0-15.0	77992	IND	6TT	ARR	ARR	ARR		Yang,X	
6135	Turbulent Flows - Theory, Measurements and Modeling Prerequisite: Mech Eng 5131 or Aero Eng 5131 or Mech Eng 5139 or Aero Eng 5139 or equivalent. (Co-listed with Aero Eng 6135)	3.0- 3.0	78112	LEC	1A	TTh	08:00 - 09:15 am	TMH	00250	Duan,L
6222	Theory of Elasticity Prerequisites: CIV ENG 2210. (Co-listed with Aero Eng 6222)	3.0- 3.0	78114	LEC	1A	TTh	09:30 - 10:45 am	LIB	000G14	Dharani,L
6284	Analysis of Laminated Composite Structures Prerequisite: Mech Eng 5282 or Aero Eng 5282. (Co-listed with Aero Eng 6284)	3.0- 3.0	75848	LEC	1A	W	04:00 - 06:30 pm	BERTELS	00B12B	Birman,V
6447	Markov Decision Processes Prerequisite: Graduate standing in background of probability or statistics. (Co-listed with Comp Eng 6310, Mech Eng 6447, Eng Mgt 6410 and Comp Sci 6202)	3.0- 3.0	76099	LEC	1A	M	04:00 - 06:30 pm	TMH	00260	Wunsch,D
6526	Micro-/Nano-Scale Thermophysics and Energy Transport Prerequisite: Mech Eng 5525.	3.0- 3.0	76863	LEC	1A	TTh	02:00 - 03:15 pm	MCNT	00245	Gao,J
6585	Advanced Optical Materials and Structures Prerequisite: Elec Eng 5200 or equivalent.	3.0- 3.0	77689	LEC	1A	TTh	11:00 - 12:15 pm	HARR	00107	Yang,X
6657	Laser Aided Manufacturing And Materials Processing Prerequisite: Mech Eng 5525.	3.0- 3.0	78115	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00265	Tsai,H

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6704 Mechanics of Machinery Prerequisites: Vector & matrix analysis; introductory planar kinematic & dynamic analysis of mechanisms; MECH ENG 5704 or equivalent.	3.0- 3.0	76864	LEC	1A	MWF	12:00 - 12:50 pm	TMH	00260	Midha,A
Metallurgical Engineering									
2110 Metallurgy For Engineers Prerequisite: Preceded or accompanied by Chem 1310, prior or concurrent.	3.0- 3.0	75382	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00204	Miller,F
	3.0- 3.0	75383	LEC	1B	MWF	11:00 - 11:50 am	MCNT	00204	Miller,F
2410 Applied Metal Forming Prerequisite: Chem 1100.	2.0- 2.0		LEC	1A	F	12:00 - 12:50 pm	MCNT	00265	Newkirk,J
	2.0- 2.0	77414	LAB	3A	F	01:30 - 03:30 pm	MCNT	00265	Newkirk,J
3120 Fundamentals Of Materials Behavior Prerequisite: "C" or better grade in both Met Eng 2110 and Civ Eng 2210.	3.0- 3.0	75793	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00206	Zhou,C
3125 Mechanical Testing of Materials Prerequisite: "C" or better in Met Eng 2110 and preceded or accompanied by Met Eng 3120.	2.0- 2.0		LEC	1A	M	01:00 - 01:50 pm	MCNT	00206	Wen,H
	2.0- 2.0	76613	LAB	3A	M	02:00 - 03:50 pm	MCNT	00243	Wen,H
	2.0- 2.0	76614	LAB	3B	T	02:00 - 03:50 pm	MCNT	00243	Wen,H
	2.0- 2.0	77053	LAB	3C	W	02:00 - 03:50 pm	MCNT	00243	Wen,H
3320 Transport Phenomena In Metallurgy Prerequisite: "C" or better grade in Civ Eng 2200.	3.0- 3.0	75385	LEC	1A	MWF	11:00 - 11:50 am	MCNT	00206	Schlesinger,M
4000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	75386	IND	6A	ARR	ARR	ARR		Asle Zaeem,M
	0.0- 6.0	75387	IND	6B	ARR	ARR	ARR		Miller,F
	0.0- 6.0	75388	IND	6C	ARR	ARR	ARR		Moats,M
	0.0- 6.0	75389	IND	6D	ARR	ARR	ARR		Newkirk,J
	0.0- 6.0	75390	IND	6E	ARR	ARR	ARR		O'Malley,R
	0.0- 6.0	75391	IND	6F	ARR	ARR	ARR		Richards,V
	0.0- 6.0	75392	IND	6G	ARR	ARR	ARR		Schlesinger,M
	0.0- 6.0	75393	IND	6H	ARR	ARR	ARR		Van Aken,D
	0.0- 6.0	75394	IND	6J	ARR	ARR	ARR		Zhou,C
4096 Materials Senior Design I Prerequisites: Met Eng 3125 and Met Eng 2125, or Cer Eng 3315 with a "C" or better. (Co-listed with Cer Eng 4096)	3.0- 3.0	76591	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00216	Schlesinger,M
4099 Undergraduate Research Prerequisite: Consent of instructor.	0.0- 6.0	75400	IND	6A	ARR	ARR	ARR		Bartlett,L
	0.0- 6.0	75401	IND	6B	ARR	ARR	ARR		Miller,F
	0.0- 6.0	75402	IND	6C	ARR	ARR	ARR		Moats,M
	0.0- 6.0	75403	IND	6D	ARR	ARR	ARR		Newkirk,J
	0.0- 6.0	75404	IND	6F	ARR	ARR	ARR		O'Malley,R
	0.0- 6.0	76776	IND	6G	ARR	ARR	ARR		Richards,V
	0.0- 6.0	77770	IND	6H	ARR	ARR	ARR		Wen,H
	0.0- 6.0	77771	IND	6J	ARR	ARR	ARR		Xu,M
4350 Process Metallurgy Applications Prerequisite: "C" or better grade in Cer Eng 3230.	3.0- 3.0	75398	LEC	1A	TTh	01:00 - 01:50 pm	MCNT	00212	Schlesinger,M
			LEC	1A	Th	02:00 - 03:15 pm	MCNT	00114	
4420 Metals Casting Prerequisite: "C" or better grade in either Met Eng 3420 or Mech Eng 2653.	3.0- 3.0	75395	LEC	1A	TTh	08:00 - 09:15 am	MCNT	00216	Bartlett,L
4425 Metals Casting Lab Prerequisite: Accompanied or preceded by Met Eng 4420.	1.0- 1.0	77585	LAB	3A	W	01:00 - 03:50 pm	MCNT	00244	Bartlett,L
5000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	75405	IND	6A	ARR	ARR	ARR		Hilmas,G
	0.0- 6.0	75776	IND	6B	ARR	ARR	ARR		Richards,V
	0.0- 6.0	75406	IND	6C	ARR	ARR	ARR		Schlesinger,M
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	75415	IND	6A	ARR	ARR	ARR		

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5099 Research Prerequisite: Consent of instructor required.	0.0-15.0	75407	IND	6A	ARR	ARR	ARR		Asle Zaeem,M
	0.0-15.0	75408	IND	6B	ARR	ARR	ARR		Miller,F
	0.0-15.0	75409	IND	6C	ARR	ARR	ARR		Moats,M
	0.0-15.0	75410	IND	6D	ARR	ARR	ARR		Newkirk,J
	0.0-15.0	76465	IND	6E	ARR	ARR	ARR		O'Malley,R
	0.0-15.0	75411	IND	6F	ARR	ARR	ARR		Richards,V
	0.0-15.0	75412	IND	6G	ARR	ARR	ARR		Schlesinger,M
	0.0-15.0	75413	IND	6H	ARR	ARR	ARR		Van Aken,D
	0.0-15.0	75414	IND	6J	ARR	ARR	ARR		Zhou,C
5170 Nuclear Materials I Prerequisites: Civ Eng 2210; Nuc Eng 3205; Nuc Eng 3223; Met Eng 2110.(Co-listed with Nuc Eng 4241)	3.0- 3.0	75397	LEC	1A	TTh	11:00 - 12:15 pm	FUL	00227	Graham,J
5420 Advanced Metals Casting Prerequisite: Met Eng 3420 or Mech Eng 2653.	3.0- 3.0	76805	LEC	1A	TTh	08:00 - 09:15 am	MCNT	00216	Bartlett,L
5425 Metals Casting Laboratory Prerequisite: Accompanied or preceded by Met Eng 4420.	1.0- 1.0	75396	LAB	3A	W	01:00 - 03:50 pm	MCNT	00244	Bartlett,L
5440 Metal Deformation Processes Prerequisite: Met Eng 3120 and Met Eng 3420 both with "C" or better grade.	3.0- 3.0	78060	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00210	O'Malley,R
5480 Refining Of Metals Prerequisite: Cer Eng 3230 and Met Eng 3220 or graduate standing.	2.0- 3.0	78260	IND	6A	MW	12:00 - 12:50 pm	MCNT	00245	Moats,M
5520 Electron Microscopy Prerequisites: Met Eng 3130 and Met Eng 2125, or a course in optical microscopy.	3.0- 3.0	77586	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00206	Miller,F
5525 Scanning Electron Microscopy Lab Prerequisite: Preceded or accompanied by Met Eng 5520.	1.0- 1.0	77587	LAB	3A	W	09:00 - 11:50 am	MCNT	00012	Wisner,C
	1.0- 1.0	77588	LAB	3B	W	01:00 - 03:50 pm	MCNT	00012	Wisner,C
5810 Principles Of Engineering Materials (Co-listed with Aero Eng 3877, Chem Eng 5300, Physics 4523, Cer Eng 5810)	3.0- 3.0	75399	LEC	1A	MWF	08:00 - 08:50 am	MCNT	00216	Newkirk,J
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	75416	IND	6A	ARR	ARR	ARR		Moats,M
6099 Research	0.0-15.0	77010	IND	6A	ARR	ARR	ARR		Asle Zaeem,M
	0.0-15.0	77011	IND	6B	ARR	ARR	ARR		Bartlett,L
	0.0-15.0	77012	IND	6C	ARR	ARR	ARR		Miller,F
	0.0-15.0	77013	IND	6D	ARR	ARR	ARR		Moats,M
	0.0-15.0	77014	IND	6E	ARR	ARR	ARR		Newkirk,J
	0.0-15.0	77015	IND	6F	ARR	ARR	ARR		O'Malley,R
	0.0-15.0	77016	IND	6G	ARR	ARR	ARR		Richards,V
	0.0-15.0	77017	IND	6H	ARR	ARR	ARR		Schlesinger,M
	0.0-15.0	77018	IND	6J	ARR	ARR	ARR		Van Aken,D
	0.0-15.0	77019	IND	6K	ARR	ARR	ARR		Wen,H
	0.0-15.0	77344	IND	6L	ARR	ARR	ARR		Xu,M
	0.0-15.0	77772	IND	6M	ARR	ARR	ARR		Zhou,C

Military Science - Army ROTC

1000 Army Physical Readiness Program	1.0- 1.0	75417	LAB	3A	ARR	ARR	ARR		Richard,S
1250 Leadership and Personal Development	1.0- 1.0	76155	LEC	1A	W	02:00 - 02:50 pm	HARR	00302	Weicht,R
1700 Rifle Marksmanship	1.0- 1.0	78270	LEC	1A	M	11:00 - 11:50 am	HARR	00302	Pense,C
1750 Wilderness Survival And Life-Saving Techniques	1.0- 1.0	78271	LEC	1A	M	01:00 - 01:50 pm	HARR	00302	Pense,C
2250 Innovative Team Leadership	3.0- 3.0	76545	LEC	1A	TTh	09:30 - 10:45 am	HARR	00302	Shelby,T
2750 Basic Leadership Laboratory Prerequisite: To accompany Mil Army 2500.	1.0- 1.0	75751	LAB	3A	W	03:00 - 06:00 pm	ARR		Richard,S
3250 Adaptive Tactical Leadership Prerequisites: Mil Army 1250, 1500, 2250, 2500 - Exceptions to be made by Dept Chair Only In Accordance with Army (Cadet Command) Policies.	3.0- 3.0		LEC	1A	TTh	08:00 - 08:50 am	ARR		Richard,S
	3.0- 3.0		LEC	1B	TTh	08:00 - 08:50 am	HARR	00302	Richard,S
	3.0- 3.0	75950	LAB	3A	W	03:00 - 06:00 pm	ARR		Richard,S
	3.0- 3.0	76547	LAB	3B	W	03:00 - 06:00 pm	ARR		Richard,S

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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	75418	IND	6A	ARR	ARR	ARR		Register,O
4250 Developing Adaptive Leaders Prerequisites: Mil Army 3250 and 3500 - Exceptions to be made by Dept Chair Only in accordance with Army (Cadet Command) policies.	3.0- 3.0 3.0- 3.0	76549	LEC LAB	1A 3A	M W	03:00 - 05:00 pm 03:00 - 06:00 pm	HARR ARR	00302	Register,O Register,O

Mining Engineering

1912 Principles Of Mining Engineering	2.0- 2.0	78245	LEC	1A	T	11:00 - 12:30 pm	H-SS	000G9	Lusk,B
			Field Trip Required						
2126 Introduction To Mining Safety	1.0- 1.0	76338	LAB	3A	Th	01:00 - 03:45 pm	MINE		Konya,T
	1.0- 1.0	76462	LAB	3B	T	01:00 - 03:45 pm	MINE		
2925 Surveying For Mineral Engineers Prerequisite: Preceded or accompanied by Min Eng 2126.	2.0- 2.0	75419	LAB	3A	M	01:00 - 03:50 pm	MINE		Frimpong,S
			Class meets in McNutt for the first three weeks. Room number to be announced. See 'Notes' for Class Schedule						
3002 Mine Rescue Prerequisite: Min Eng 2126.	3.0- 3.0		LEC	1A	F	01:00 - 03:30 pm	MINE		Phelps,C Proctor,J
	3.0- 3.0	75421	LAB	3A	ARR	ARR	ARR		Phelps,C
3512 Mining Industry Economics Prerequisite: Econ 1100 or 1200. (Co-listed with Econ 3512)	3.0- 3.0	75425	LEC	1A	TTh	08:00 - 09:15 am	EMGT	00201	Johnson,C
3912 Materials Handling In Mines Prerequisite: Min Eng 1912.	3.0- 3.0		LEC	1A	TTh	09:00 - 09:50 am	MCNT	00204	Frimpong,S
	3.0- 3.0	75774	LAB	3A	Th	04:00 - 05:50 pm	MCNT	00216	Frimpong,S
3913 Mineral Identification and Exploration Prerequisites: Either both Chem 1310 and Chem 1319 or Chem 1351; either Geo Eng 1150 or Geology 1110.	3.0- 3.0		LEC	1A	MW	05:00 - 06:15 pm	EMGT	00103	Seeger,C
	3.0- 3.0	78230	LAB	3A	ARR	ARR	ARR		Seeger,C
4000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	75426	IND	6A	ARR	ARR	ARR		Alagha,L
	0.0- 6.0	76120	IND	6B	F	09:00 - 09:50 am	MCNT	00114	Aouad,N
	0.0- 6.0	76371	IND	6C	ARR	ARR	ARR		Frimpong,S
	0.0- 6.0	77047	IND	6D	ARR	ARR	ARR		Weiss,D
4096 Computer Aided Mine Design Prerequisites: Min Eng 4522, Min Eng 4932, and Min Eng 4933.	3.0- 3.0	77278	LAB	3A	TTh	09:30 - 10:45 am	MCNT	00114	Awuah-Offei,K
4099 Undergraduate Research	0.0- 6.0	76050	IND	6A	ARR	ARR	ARR		Alagha,L
	0.0- 6.0	75945	IND	6B	ARR	ARR	ARR		Frimpong,S
	0.0- 6.0	75761	IND	6C	ARR	ARR	ARR		Galecki,G
4122 Advanced Mine Health and Safety Prerequisite: Min Eng 2126.	3.0- 3.0	77312	LEC	1A	TTh	08:00 - 09:15 am	LIB	000G14	Weiss,D
4512 Mine Management Prerequisite: Completion of 50 credits toward Mining Engineering degree. (Co-listed ECON 4512)	3.0- 3.0	78266	LEC	1A	MWF	09:00 - 09:50 am	CS	00209	Weiss,D
			Communication Emphasized						
4523 Environmental And Natural Resource Economics Prerequisite: Econ 2100. (Co-listed with Econ 4440)	3.0- 3.0	76217	LEC	1A	MWF	10:00 - 10:50 am	CSF	00G5D	Fikru,M
5000 Special Problems	0.0- 6.0	77914	IND	6A	ARR	ARR	ARR		Awuah-Offei,K
5113 Mine Atmosphere Control Prerequisite: Mech Eng 2527 and Civ Eng 3330; or Nuc Eng 3221.	3.0- 3.0		LEC	1A	MW	04:00 - 04:50 pm	TMH	00249	Slaughter,C
	3.0- 3.0	78265	LAB	3A	M	01:50 - 03:45 pm	MINE		Slaughter,C
5423 Flotation and Hydrometallurgy Prerequisites: Min Eng 2412.	3.0- 3.0		LEC	1A	MW	08:00 - 08:50 am	MCNT	00265	Alagha,L
	3.0- 3.0	78232	LAB	3A	ARR	ARR	ARR		Alagha,L
5532 Advanced Mining Economics (Co-listed with ECON 5532)	3.0- 3.0	77048	LEC	1A	ARR	ARR	ARR		Johnson,C
5912 Mine Power and Drainage Prerequisite: Mech Eng 2527 and Civ Eng 3330; or Nuc Eng 3221.	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	MCNT	00216	Galecki,G
	3.0- 3.0	78235	LAB	3A	T	04:00 - 04:50 pm	ARR		Galecki,G
5932 Underground Mining Methods Prerequisite: Preceded or accompanied by Min Eng 3913.	3.0- 3.0	78268	LEC	1A	TTh	09:30 - 11:00 am	TMH	00250	Aouad,N

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6000 Special Problems	0.0- 6.0	76028	IND	6A	ARR	ARR	ARR		Aouad,N
	0.0- 6.0	76043	IND	6B	ARR	ARR	ARR		Awuah-Offei,K
	0.0- 6.0	76030	IND	6C	ARR	ARR	ARR		Frimpong,S
	0.0- 6.0	76046	IND	6D	ARR	ARR	ARR		Galecki,G
	0.0- 6.0	77362	IND	6G	ARR	ARR	ARR		Lusk,B
6001 Special Topics Prerequisites: Graduate standing or Stat 3113.	3.0- 3.0	77915	LEC	1A	TTh	04:00 - 05:15 pm	CH	00105	Awuah-Offei,K
									Sim of Mining Systems
6010 Seminar	1.0- 1.0	75431	RSD	2A	M	12:00 - 12:50 pm	MCNT	00265	Awuah-Offei,K
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	75436	IND	6A	ARR	ARR	ARR		Lusk,B
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	75437	IND	6A	ARR	ARR	ARR		Lusk,B
6080 Graduate Project	3.0- 3.0	77365	IND	6B	ARR	ARR	ARR		Perry,K
6099 Research Prerequisite: Consent of instructor required.	0.0-15.0	75433	IND	6A	ARR	ARR	ARR		Alagha,L
	0.0-15.0	76007	IND	6B	ARR	ARR	ARR		Aouad,N
	0.0-15.0	75768	IND	6C	ARR	ARR	ARR		Awuah-Offei,K
	0.0-15.0	76051	IND	6D	ARR	ARR	ARR		Frimpong,S
	0.0-15.0	76145	IND	6E	ARR	ARR	ARR		Galecki,G
	0.0-15.0	75434	IND	6F	ARR	ARR	ARR		Ge,M
	0.0-15.0	75435	IND	6G	ARR	00:00 - 00:00 am			Homan,K
	0.0-15.0	77337	IND	6H	ARR	ARR	ARR		Lusk,B
	0.0-15.0	77360	IND	6J	ARR	ARR	ARR		Perry,K
6132 Advanced Mine Health And Safety Design Prerequisite: Graduate standing.	3.0- 3.0	75432	LEC	1A	TTh	08:00 - 09:15 am	LIB	000G14	Weiss,D
6622 Environmental Controls For Blasting Prerequisites: Min Eng 5612, Successful background check. (Co-listed with Exp Eng 6412)	3.0- 3.0		LEC	1A	ARR	ARR	ARR		Worsey,P
	3.0- 3.0	77268	LAB	3A	ARR	ARR	ARR		Worsey,P
6632 Theory Of High Explosives Prerequisite: Graduate Standing. (Co-listed with Exp Eng 6212)	3.0- 3.0	77909	LEC	1A	ARR	ARR	ARR		Baird,J

Miscellaneous

CPSS College Program for Success	0.0- 0.0	76202	RSD	2A	ARR	ARR	ARR		Morris,R
									SESSION WILL MEET AUG 13 - 17. MONDAY AUG 13, 12:30-3:30 P.M. TUESDAY THROUGH FRIDAY 8:30-10:30 A.M. AND 1:30-3:30 P.M. THIS IS THE WEEK PRIOR TO THE BEGINNING OF CLASSES.
EDGE The Financial Edge	0.0- 0.0	76926	RSD	2A	ARR	ARR	ARR		Klossner-Thompson,K
									SESSION WILL MEET AUG 13 - 17. MONDAY AUG 13, 12:30-3:30 P.M. TUESDAY THROUGH FRIDAY 8:30-10:30 A.M. AND 1:30-3:30 P.M. THIS IS THE WEEK PRIOR TO THE BEGINNING OF CLASSES.
INNOV INNOVATE	0.0- 0.0	77234	RSD	2A	ARR	ARR	ARR		Bachman,B
									SESSION WILL MEET AUG 13 - 17. MONDAY AUG 13, 12:30-3:30 P.M. TUESDAY THROUGH FRIDAY 8:30-10:30 A.M. AND 1:30-3:30 P.M. THIS IS THE WEEK PRIOR TO THE BEGINNING OF CLASSES.
LEAD Lead by Digging Deeper	0.0- 0.0	76421	RSD	2A	ARR	ARR	ARR		Klossner-Thompson,K
									SESSION WILL MEET AUG 13 - 17. MONDAY AUG 13, 12:30-3:30 P.M. TUESDAY THROUGH FRIDAY 8:30-10:30 A.M. AND 1:30-3:30 P.M. THIS IS THE WEEK PRIOR TO THE BEGINNING OF CLASSES.
PRBSOL Problem Solving Workshop	0.0- 0.0	75615	RSD	2A	ARR	ARR	ARR		
									SESSION WILL MEET AUG 13 - 17. MONDAY AUG 13 12:30-3:30 P.M. TUESDAY THROUGH FRIDAY 8:30-10:30 A.M. AND 1:30-3:30 P.M. THIS IS THE WEEK PRIOR TO THE BEGINNING OF CLASSES.

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
TRGREV Trigonometry Review Workshop	0.0- 0.0	75614	RSD	2A	ARR	ARR	ARR		Fitch,S
			SESSION WILL MEET AUG 13 - 17. MONDAY AUG 13, 12:30-3:30 P.M. TUESDAY THROUGH FRIDAY 8:30-10:30 A.M. AND 1:30-3:30 P.M. THIS IS THE WEEK PRIOR TO THE BEGINNING OF CLASSES.						

Music

1111 Individual Music Instruction I Prerequisite: Consent of instructor required.	1.0- 1.0	75438	LAB	3A	ARR	ARR	ARR		Francis,L
	1.0- 1.0	76319	LAB	3B	ARR	ARR	ARR		Cress,D
1121 Individual Music Instruction II Prerequisite: Consent of instructor.	1.0- 2.0	75439	LAB	3A	ARR	ARR	ARR		Francis,L
1130 Wind Symphony	2.0- 2.0	75440	LAB	3B	MWF	12:00 - 12:50 pm	CASTL	00137	Samson,D
1131 Marching Band	2.0- 2.0	77276	LAB	3A	TWTh	04:00 - 05:30 pm	CASTL	00137	Samson,D
1132 University Orchestra	2.0- 2.0	75441	LAB	3A	M	07:00 - 09:30 pm	CASTL	00137	Wernke,K
			(Symphony Orchestra)						
1134 Instrumental Chamber Ensemble-Strings	1.0- 1.0	75442	LAB	3A	Th	07:00 - 09:00 pm	CASTL	00137	Wernke,K
			(Chamber Orchestra)						
1135 Symphonic Band (Concert Band)	0.0- 2.0	75443	LAB	3A	M	04:00 - 05:20 pm	CASTL	00137	Cress,D
1136 Jazz Ensemble Prerequisite: Consent of instructor.	1.0- 1.0	75444	LAB	3A	T	06:00 - 08:30 pm	CASTL	00137	Cress,D
1140 University Choir	1.0- 1.0	75445	LAB	3A	TTh	02:00 - 03:15 pm	CASTL	00138	Francis,L
1141 Chamber Vocal Ensembles	1.0- 1.0	75835	LAB	3A	TTh	12:30 - 01:45 pm	CASTL	00138	Francis,L
1150 Music Understanding And Appreciation	3.0- 3.0	75666	LEC	1A	MWF	02:00 - 02:50 pm	CASTL	00138	Francis,L
2111 Individual Music Instruction III Prerequisite: Consent of instructor.	1.0- 2.0	75446	LAB	3A	ARR	ARR	ARR		Francis,L
			Piano only						
	1.0- 2.0	77319	LAB	3B	ARR	ARR	ARR		Cress,D
			Brass Only						
2121 Individual Music Instruction IV Prerequisite: Consent of instructor.	1.0- 2.0	75447	LAB	3A	ARR	ARR	ARR		Francis,L
			Piano only						
	1.0- 2.0	77377	LAB	3B	ARR	ARR	ARR		Wernke,K
2161 Theory of Music I	3.0- 3.0	78016	LEC	1A	TTh	09:30 - 10:45 am	CASTL	00137	Samson,D
3000 Special Problems Prerequisite: Consent of instructor.	0.0- 6.0	75448	IND	6A	ARR	ARR	ARR		Francis,L

Nuclear Engineering

1105 Nuclear Technology Applications	1.0- 1.0	75904	LEC	1A	M	03:00 - 03:50 pm	FUL	00227	Castano,C
2001 Special Topics Prerequisites: Must be accompanied by Comp Sci 1971 or Comp Sci 1972.	1.0- 1.0	78269	LEC	1A	F	12:00 - 12:50 pm	FUL	00227	Schlegel,J
			Prof Dev for Nuc Engineers						
2105 Introduction To Nuclear Engineering Prerequisite: Math 1215 or Math 1221.	2.0- 2.0	75449	LEC	1A	MW	11:00 - 11:50 am	FUL	00209	Mueller,G
2406 Reactor Operations I Prerequisites: Math 1214 or Math 1208; preceded or accompanied by Nuc Eng 1105.	1.0- 1.0	76964	LAB	3A	M	02:00 - 02:50 pm	BCH	00317	Graham,J
	1.0- 1.0	76965	LAB	3B	T	09:00 - 09:50 am	BCH	00215	Graham,J
	1.0- 1.0	76966	LAB	3C	T	02:00 - 02:50 pm	BCH	00215	Graham,J
3000 Special Problems	0.0- 6.0	75856	IND	6A	ARR	ARR	ARR		Usman,S
3205 Fundamentals Of Nuclear Engineering Prerequisite: Physics 2305 or Nuc Eng 3103; Math 3304.	3.0- 3.0	75450	LEC	1A	MWF	10:00 - 10:50 am	IDE	00206	Alajo,A
3221 Reactor Fluid Mechanics Prerequisites: Math 3304, Junior standing.	3.0- 3.0	75957	LEC	1A	MWF	11:00 - 11:50 am	EMGT	00201	Schlegel,J
3377 Nuclear Forensics and Radiochemistry Prerequisites: NUC ENG 2105 recommended.	3.0- 3.0	77996	LEC	1A	TTh	09:30 - 10:45 am	FUL	00220	Castano,C
4000 Special Problems	0.0- 6.0	75451	IND	6A	ARR	ARR	ARR		Alajo,A
	0.0- 6.0	75452	IND	6B	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	75453	IND	6C	ARR	ARR	ARR		Castano,C
	0.0- 6.0	76267	IND	6E	ARR	ARR	ARR		Lee,H
	0.0- 6.0	76275	IND	6F	ARR	ARR	ARR		Liu,X
	0.0- 6.0	76304	IND	6G	ARR	ARR	ARR		Mueller,G
	0.0- 6.0	76409	IND	6H	ARR	ARR	ARR		Schlegel,J
	0.0- 6.0	77765	IND	6J	ARR	ARR	ARR		Usman,S
4010 Seminar Prerequisite: Senior standing.	0.0- 6.0	75458	RSD	2A	M	12:00 - 12:50 pm	MCNT	00216	Usman,S

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4099 Undergraduate Research	0.0- 6.0	75854	IND	6A	ARR	ARR	ARR		Alajo,A
	0.0- 6.0	75786	IND	6B	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	76242	IND	6C	ARR	ARR	ARR		Castano,C
	0.0- 6.0	76247	IND	6D	ARR	ARR	ARR		Lee,H
	0.0- 6.0	76276	IND	6E	ARR	ARR	ARR		Liu,X
	0.0- 6.0	76305	IND	6F	ARR	ARR	ARR		Mueller,G
	0.0- 6.0	76410	IND	6H	ARR	ARR	ARR		Schlegel,J
0.0- 6.0	76790	IND	6J	ARR	ARR	ARR		Usman,S	
4207 Nuclear Fuel Cycle Prerequisite: Nuc Eng 3205.	3.0- 3.0	75457	LEC	1A	MWF	11:00 - 11:50 am	FUL	00227	Alajo,A
4215 Space Nuclear Power And Propulsion Prerequisites: Nuc Eng 4203 and Nuc Eng 4229.	3.0- 3.0	78305	LEC	1A	MWF	09:00 - 09:50 am	FUL	00209	Mueller,G
4241 Nuclear Materials I Prerequisites: Civ Eng 2210; Nuc Eng 3205; Nuc Eng 3223; Met Eng 2110. (Co-listed with Met Eng 5170)	3.0- 3.0	75459	LEC	1A	TTh	11:00 - 12:15 pm	FUL	00227	Graham,J
4253 Monte Carlo Approach to Reactor Analysis Prerequisites: Accompanied by NUC ENG 3205	3.0- 3.0	76792	LEC	1A	MWF	03:00 - 03:50 pm	FUL	00220	Alajo,A
4259 Licensing Of Nuclear Power Plants Prerequisite: Nuc Eng 3205.	3.0- 3.0		LEC	1A	TTh	10:00 - 10:50 am	H-SS	000G8	Usman,S
	3.0- 3.0		LEC	1B	ARR	ARR	ARR		Usman,S
	3.0- 3.0	77685	LAB	3A	ARR	ARR			Usman,S
	3.0- 3.0	77784	LAB	3B	ARR	ARR	ARR		Usman,S
4350 Introduction to Nuclear Medical Science Prerequisites: Nuc Eng 4312 or equivalent.	3.0- 3.0	76943	LEC	1A	MWF	10:00 - 10:50 am	TMH	00256	Lee,H
4363 Applied Health Physics Prerequisite: Nuc Eng 3103 or Physics 2305.	3.0- 3.0	76804	LEC	1A	TTh	03:00 - 04:15 pm	EMGT	00104	Usman,S
4370 Plasma Physics I Prerequisite: Aero Eng 3131 or Mech Eng 3131 or Physics 3211 or Nuc Eng 3221 or Elec Eng 3600. (Co-listed with Aero Eng 5570, Mech Eng 5570, Physics 4543)	3.0- 3.0	77980	LEC	1A	TTh	08:00 - 09:15 am	TMH	00249	Han,D
4428 Reactor Laboratory I Prerequisites: Nuc Eng 4312, 3205.	2.0- 2.0		LEC	1A	M	02:00 - 02:50 pm	FUL	00220	Usman,S
	2.0- 2.0	75455	LAB	3A	W	02:00 - 04:50 pm	ARR		Usman,S
	2.0- 2.0	75456	LAB	3B	Th	12:30 - 03:15 pm	ARR		Usman,S
4496 Nuclear System Design I Prerequisites: Nuc Eng 3223, Nuc Eng 4203, and Nuc Eng 4229; preceded or accompanied by Nuc Eng 4241.	1.0- 1.0	77997	LAB	3A	ARR	ARR	ARR		Castano,C
5207 Nuclear Fuel Cycle Prerequisite: Nuc Eng 3205.	3.0- 3.0	76821	LEC	1A	MWF	11:00 - 11:50 am	FUL	00227	Alajo,A
5241 Nuclear Materials I Prerequisites: Civ Eng 2210; Nuc Eng 3205; Nuc Eng 3223; Met Eng 2110. (Co-listed with Met Eng 5170)	3.0- 3.0	76820	LEC	1A	TTh	11:00 - 12:15 pm	FUL	00227	Graham,J
5350 Advanced Nuclear Medical Science Prerequisites: Nuc Eng 4312 or equivalent.	3.0- 3.0	76944	LEC	1A	MWF	10:00 - 10:50 am	TMH	00256	Lee,H
5363 Applied Health Physics Prerequisite: Nuc Eng 3103 or Physics 2305.	3.0- 3.0	76806	LEC	1A	TTh	03:00 - 04:15 pm	EMGT	00104	Usman,S
5428 Reactor Laboratory I Prerequisites: Nuc Eng 204, 3205.	2.0- 2.0		LEC	1A	M	02:00 - 02:50 pm	FUL	00220	Usman,S
	2.0- 2.0	76808	LAB	3A	W	02:00 - 04:50 pm	ARR		Usman,S
6000 Special Problems	0.0- 6.0	76040	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	76268	IND	6B	ARR	ARR	ARR		Lee,H
	0.0- 6.0	77372	IND	6C	ARR	ARR	ARR		Usman,S
6010 Seminar	0.0- 6.0	75460	RSD	2A	M	12:00 - 12:50 pm	MCNT	00216	Usman,S

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	75465	IND	6A	ARR	ARR		ARR	
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	75466	IND	6A	ARR	ARR		ARR	Lee,H
6085 Internship DE students only.	0.0-15.0	75464	IND	6A	ARR	ARR		ARR	Lee,H
6099 Research Prerequisite: Consent of instructor required.	0.0-15.0	75461	IND	6A	ARR	ARR		ARR	Alajo,A
	0.0-15.0	75462	IND	6B	ARR	ARR		ARR	Al Dahhan,M
	0.0-15.0	75463	IND	6C	ARR	ARR		ARR	Castano,C
	0.0-15.0	76212	IND	6D	ARR	ARR		ARR	Graham,J
	0.0-15.0	76243	IND	6E	ARR	ARR		ARR	Lee,H
	0.0-15.0	76306	IND	6F	ARR	ARR		ARR	Liu,X
	0.0-15.0	76379	IND	6G	ARR	ARR		ARR	Mueller,G
	0.0-15.0	76791	IND	6H	ARR	ARR		ARR	Schlegel,J
	0.0-15.0	77166	IND	6J	ARR	ARR		ARR	Usman,S
6205 Linear Transport Theory Prerequisites: Nuc Eng 4203, Math 5358.	3.0- 3.0	76803	LEC	1A	CANCELLED				
6223 Nuclear Reactor Safety	3.0- 3.0	77998	LEC	1A	CANCELLED				
6257 Advanced Nuclear Thermal Hydraulics Prerequisite: Math 5325.	3.0- 3.0	77468	LEC	1A	CANCELLED				
6331 Radiation Shielding Prerequisite: Nuc Eng 4203.	3.0- 3.0	76411	LEC	1A	CANCELLED				

Petroleum Engineering

3000 Special Problems	1.0- 3.0	75471	IND	6A	ARR	ARR		ARR	Bai,B
	1.0- 3.0	75470	IND	6B	ARR	ARR		ARR	Dunn Norman,S
	1.0- 3.0	76113	IND	6C	ARR	ARR		ARR	Eckert,A
	1.0- 3.0	76112	IND	6D	ARR	ARR		ARR	Flori,R
	1.0- 3.0	76114	IND	6E	ARR	ARR		ARR	Hendrix,R
	1.0- 3.0	76390	IND	6F	ARR	ARR		ARR	Imqam,A
	1.0- 3.0	76940	IND	6G	ARR	ARR		ARR	Wei,M
3320 Petrophysics Prerequisites: Preceded or accompanied by both Pet Eng 2510 and Physics 1135.	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	BERTELS	00B10	Imqam,A
	3.0- 3.0	77144	LAB	3A	T	01:00 - 02:20 pm	MCNT	00112	Imqam,A
	3.0- 3.0	77145	LAB	3B	T	02:30 - 03:50 pm	MCNT	00112	Imqam,A
	3.0- 3.0	77146	LAB	3C	T	04:00 - 05:20 pm	MCNT	00112	Imqam,A
4001 Special Topics Prerequisites: Pet Eng 3520.	3.0- 3.0		LEC	1A	ARR	ARR		ARR	Flori,R
					Pet Eng Applications of MATLAB				
	3.0- 3.0	78277	LAB	3A	TTh	12:30 - 01:45 pm	MCNT	00114	Flori,R
					Pet Eng Applications of MATLAB				
4010 Ethics and Professionalism Prerequisite: Senior standing in Pet Eng.	1.0- 1.0	78240	LEC	1A	M	03:00 - 03:50 pm	MCNT	00211	Dunn Norman,S
4210 Drilling and Well Design Prerequisite: Preceded or accompanied by Civ Eng 3330.	3.0- 3.0		LEC	1A	TTh	08:00 - 08:50 am	BERTELS	00B10	Hendrix,R
	3.0- 3.0	75468	LAB	3A	M	02:00 - 03:50 pm	MCNT	00115	
	3.0- 3.0	76197	LAB	3B	M	04:00 - 05:50 pm	MCNT	00115	
	3.0- 3.0	76264	LAB	3C	T	02:00 - 03:50 pm	MCNT	00115	
4421 Artificial Lift Prerequisite: Pet Eng 3410.	3.0- 3.0	76196	LEC	1A	TTh	09:30 - 10:45 am	TMH	00254	Dunn Norman,S
			LEC	1A	ARR	ARR		ARR	
4441 Well Stimulation Prerequisites: Pet Eng 3520 and Pet Eng 3330.	3.0- 3.0	77324	LEC	1A	M	04:00 - 06:30 pm	BCH	00121	Britt,L
4511 Applied Petroleum Reservoir Engineering Prerequisites: Pet Eng 3520 and 3529.	3.0- 3.0	76515	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00206	Flori,R
4520 Well Test Analysis Prerequisite: Pet Eng 3520.	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	SHNK	000G3	Flori,R
	3.0- 3.0	75940	LAB	3A	Th	02:00 - 03:45 pm	CH	00105	Flori,R
4710 Finite Element Analysis with Applications in Petroleum Engineering Prerequisites: Pet Eng 3520, Geology 3310, and Math 3304.	3.0- 3.0		LEC	1A	MWF	08:00 - 08:50 am	MCNT	00130	Eckert,A
	3.0- 3.0	76874	LAB	3A	W	02:30 - 05:00 pm	MCNT	00130	Eckert,A
4720 Mechanical Earth Modeling Prerequisites: Pet Eng 3310 and Geology 3310.	3.0- 3.0	76041	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00211	Eckert,A

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4811 Offshore Petroleum Technology	3.0- 3.0	77745	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00130	Hendrix,R
									Communication Emphasized
5000 Special Problems	0.0- 6.0	76147	IND	6A	ARR	ARR	ARR		Bai,B
Prerequisite: Consent of instructor required.	0.0- 6.0	75472	IND	6B	ARR	ARR	ARR		Dunn Norman,S
	0.0- 6.0	76148	IND	6C	ARR	ARR	ARR		Flori,R
	0.0- 6.0	76391	IND	6D	ARR	ARR	ARR		Hendrix,R
	0.0- 6.0	76392	IND	6E	ARR	ARR	ARR		Hilgedick,S
	0.0- 6.0	77790	IND	6F	ARR	ARR	ARR		Imqam,A
	0.0- 6.0	77921	IND	6G	ARR	ARR	ARR		Wei,M
5001 Special Topics	3.0- 3.0	78085	LEC	1A	MWF	10:00 - 10:50 am	BCH	00313	Hilgedick,S
Prerequisites: Pet Eng 4720.									Geomech Apps in Pet Eng
5040 Oral Examination	0.0- 0.0	75477	IND	6A	ARR	ARR	ARR		Flori,R
Student will be billed for one credit hour not required for students otherwise enrolled. Graduate Office permission required.									
5085 Internship	0.0-15.0	75476	IND	6A	ARR	ARR	ARR		Flori,R
DE students only.									
5099 Research	0.0-12.0	75473	IND	6A	ARR	ARR	ARR		Bai,B
Prerequisite: Consent of instructor required.	0.0-12.0	75474	IND	6B	ARR	ARR	ARR		Dunn Norman,S
	0.0-12.0	76116	IND	6C	ARR	ARR	ARR		Eckert,A
	0.0-12.0	76115	IND	6D	ARR	ARR	ARR		Flori,R
	0.0-12.0	75475	IND	6E	ARR	ARR	ARR		Hendrix,R
	0.0-12.0	76323	IND	6F	ARR	ARR	ARR		Imqam,A
	0.0-12.0	77922	IND	6G	ARR	ARR	ARR		Wei,M
6001 Special Topics	3.0- 3.0		LEC	1A	TTh	ARR			Wei,M
Prerequisites: Graduate Standing.									Applic of Data Analyt Pet E
	3.0- 3.0		LEC	1B	ARR	ARR	ARR		Flori,R
									Adv Pet Eng Appl MATLAB
	3.0- 3.0	78239	LAB	3A	ARR	ARR	ARR		Wei,M
									Applic of Data Analyt Pet E
	3.0- 3.0	78279	LAB	3B	TTh	12:30 - 01:45 pm	MCNT	00114	Flori,R
									Adv Pet Eng Appl MATLAB
6050 Continuous Registration	1.0- 1.0	75478	IND	6A	ARR	ARR	ARR		Flori,R
Doctoral students only. Graduate Office permission required.									
6431 Advanced Well Completion Design	3.0- 3.0	77708	LEC	1A	T	12:30 - 03:15 pm	MCNT	00130	Dunn Norman,S
Prerequisites: Pet Eng 3520. Students may not earn credit for both Pet Eng 4431 and Pet Eng 6431.									
6441 Advanced Well Stimulation	3.0- 3.0	76875	LEC	1A	M	04:00 - 06:30 pm	BCH	00121	Britt,L
Prerequisites: Pet Eng 3520 and Pet Eng 3310.									
6521 Advanced Well Test Analysis	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	SHNK	000G3	Flori,R
Prerequisites: Pet Eng 3520 and Pet Eng 4520.	3.0- 3.0	76662	LAB	3A	Th	02:00 - 03:45 pm	CH	00105	Flori,R
6621 Advanced Applied Reservoir Simulation	3.0- 3.0	76941	LEC	1A	MW	01:00 - 02:15 pm	MCNT	00130	Wei,M
Prerequisite: Pet Eng 5621.									
6631 A Survey Of Improved Recovery Processes	3.0- 3.0	77923	LEC	1A	Th	07:00 - 09:30 pm	MCNT	00130	Bai,B
Prerequisite: Pet Eng 4611.									

Philosophy

1105 Introduction To Philosophy	3.0- 3.0	76162	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00204	Reed,R
Prerequisite: Entrance requirements.	3.0- 3.0	77347	LEC	1B	TTh	12:30 - 01:45 pm	H-SS	00204	Reed,R
	3.0- 3.0	76366	LEC	1C	MWF	09:00 - 09:50 am	CH	00103	
1115 Introduction To Logic	3.0- 3.0	76950	LEC	1A	TTh	11:00 - 12:15 pm	IDE	000G4A	Finke,D
Prerequisite: Entrance requirements.	3.0- 3.0	75479	LEC	1B	TTh	02:00 - 03:15 pm	CS	00203	Finke,D
	3.0- 3.0	76510	LEC	1C	ARR	ARR	ARR		Finke,D
1130 Introduction to Ethics	3.0- 3.0	77169	LEC	1A	MWF	01:00 - 01:50 pm	CH	00103	
3225 Engineering Ethics	3.0- 3.0	76857	LEC	1A	MWF	01:00 - 01:50 pm	IDE	00202	Dittmer,J
Prerequisite: Sophomore standing or above.	3.0- 3.0	76778	LEC	1B	MWF	02:00 - 02:50 pm	IDE	00202	Dittmer,J
3235 Business Ethics	3.0- 3.0	76951	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00104	Taylor,A
Prerequisite: Sophomore standing or above.	3.0- 3.0	76858	LEC	1B	MWF	11:00 - 11:50 am	H-SS	00104	Taylor,A

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3276 Thematics Studies in Film and Philosophy Prerequisites: Art 1185 or one philosophy course, or junior standing. (Co-listed with Art 3276)	3.0- 3.0	78017	LEC	1A	M	06:00 - 08:30 pm	H-SS	00104	Dittmer,J
4320 Minds And Machines Prerequisite: Any philosophy course.	3.0- 3.0	77410	LEC	1A	TTh	12:30 - 01:45 pm	H-SS	000G7	Finke,D
4345 Philosophy Of Science Prerequisite: Any philosophy course.	3.0- 3.0	76665	LEC	1A	ARR	ARR	ARR		Finke,D

UM Shared Course-Secondary

Physical Education

1100 Weight Training (Men and Women)	1.0- 1.0	75481	LAB	3A	CANCELLED				
	1.0- 1.0	75482	LAB	3B	CANCELLED				
	1.0- 1.0	76566	LAB	3C	CANCELLED				
1108 Beginning Racquetball	1.0- 1.0	75480	LAB	3A	CANCELLED				

Physics

1101 Introduction To Physics	1.0- 1.0	75483	LEC	1A	T	02:00 - 02:50 pm	PHYS	00127	Story,J
1119 General Physics Laboratory Prerequisites: Preceded or accompanied by either Physics 1111 or Physics 1145.	1.0- 1.0	75484	LAB	3A	T	03:00 - 04:50 pm	PHYS	00215	Waddill,G
	1.0- 1.0	75485	LAB	3B	W	06:00 - 07:50 pm	PHYS	00215	Waddill,G
1135 Engineering Physics I Prerequisite: Math 1208 or 1214.	0.0- 0.0	75486	LEC	1AA	TTh	09:00 - 09:50 am	PHYS	00104	Vojta,A
									Every student enrolled in Phys 1135 must be enrolled in a Lec AA, or BB, or CC and a RSD A, B, C, etc. and a Lab L01, L02, L03, etc. Students in Phys 1135 are scheduled for group exams from 5:00 to 6:00 on Wednesdays: Sept 19, Oct 17, and Nov 14th.
									See 'Notes' for Evening Exams
	0.0- 0.0	75487	LEC	1BB	TTh	10:00 - 10:50 am	PHYS	00104	Vojta,A
									Every student enrolled in Phys 1135 must be enrolled in a Lec AA, or BB, or CC and a RSD A, B, C, etc. and a Lab L01, L02, L03, etc. Students in Phys 1135 are scheduled for group exams from 5:00 to 6:00 on Wednesdays: Sept 19, Oct 17, and Nov 14th.
									See 'Notes' for Evening Exams
	0.0- 0.0	75873	LEC	1CC	ARR	ARR	ARR		Vojta,A
									Every student enrolled in Phys 1135 must be enrolled in a Lec AA, or BB, or CC and a RSD A, B, C, etc. and a Lab L01, L02, L03, etc. Students in Phys 1135 are scheduled for group exams from 5:00 to 6:00 on Wednesdays: Sept 19, Oct 17, and Nov 14th.
									See 'Notes' for Evening Exams
	4.0- 4.0	75488	RSD	2A	WF	08:00 - 08:50 am	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	75992	RSD	2B	WF	08:00 - 08:50 am	PHYS	00129	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	75489	RSD	2C	WF	09:00 - 09:50 am	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	75490	RSD	2D	WF	09:00 - 09:50 am	PHYS	00129	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	75491	RSD	2E	WF	10:00 - 10:50 am	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	75492	RSD	2F	WF	10:00 - 10:50 am	PHYS	00129	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	75493	RSD	2G	WF	09:00 - 09:50 am	IDE	00202	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	75494	RSD	2H	WF	11:00 - 11:50 am	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	75874	RSD	2J	WF	11:00 - 11:50 am	PHYS	00129	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	75889	RSD	2K	WF	12:00 - 12:50 pm	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	76245	RSD	2L	WF	12:00 - 12:50 pm	PHYS	00129	Vojta,A
									See 'Notes' for Evening Exams

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	4.0- 4.0	76615	RSD	2M	WF	01:00 - 01:50 pm	PHYS	00130	Vojta,A	
			See 'Notes' for Evening Exams							
	4.0- 4.0	76616	RSD	2N	WF	01:00 - 01:50 pm	PHYS	00129	Vojta,A	
			See 'Notes' for Evening Exams							
	4.0- 4.0	77086	RSD	2P	WF	10:00 - 10:50 am	IDE	00202	Vojta,A	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75495	LAB	3L01	M	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75496	LAB	3L02	M	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75497	LAB	3L03	M	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75498	LAB	3L04	M	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75499	LAB	3L05	M	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75500	LAB	3L06	M	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75501	LAB	3L08	T	11:00 - 12:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75502	LAB	3L09	T	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75503	LAB	3L10	T	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75504	LAB	3L12	T	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75505	LAB	3L13	W	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75506	LAB	3L14	W	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75507	LAB	3L15	W	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75875	LAB	3L17	Th	11:00 - 12:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75993	LAB	3L07	T	11:00 - 12:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75994	LAB	3L11	T	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	75995	LAB	3L16	W	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	76129	LAB	3L18	Th	11:00 - 12:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	76246	LAB	3L19	Th	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	76618	LAB	3L21	Th	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	76619	LAB	3L22	Th	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	77060	LAB	3L23	Th	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
	0.0- 0.0	77061	LAB	3L24	Th	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
			See 'Notes' for Evening Exams							
1145	College Physics I	3.0- 3.0	75805	LEC	1A	MWF	08:00 - 08:50 am	PHYS	00104	Vojta,A
	Prerequisites: Math 1160 and either of Math 1120 or Math 1140.									
2135	Engineering Physics II	0.0- 0.0	75673	LEC	1AA	MW	09:00 - 09:50 am	PHYS	00104	Musser,J
	Prerequisites: Physics 1135 or Physics 1111, Math 1221 or Math 1215.									
										Every student enrolled in Phys 2135 must be enrolled in a Lec AA, BB or CC and a RSD, A, B, C, etc, and a Lab L01, L02, etc. Students in Physics 2135, are scheduled for group exams from 5:00 to 6:00 on Tuesdays: Sept 18, Oct 16, and Nov 13.
										See 'Notes' for Evening Exams

0.0- 0.0	75508	LEC	1BB	MW	10:00 - 10:50 am	PHYS	00104	Musser,J	
		Every student enrolled in Phys 2135 must be enrolled in a Lec AA, BB or CC and a RSD, A, B, C, etc, and a Lab L01, L02, etc. Students in Physics 2135, are scheduled for group exams from 5:00 to 6:00 on Tuesdays: Sept 18, Oct 16, and Nov 13. See 'Notes' for Evening Exams							
0.0- 0.0	75509	LEC	1CC	ARR	ARR	ARR		Musser,J	
		Every student enrolled in Phys 2135 must be enrolled in a Lec AA, BB or CC and a RSD, A, B, C, etc, and a Lab L01, L02, etc. Students in Physics 2135, are scheduled for group exams from 5:00 to 6:00 on Tuesdays: Sept 18, Oct 16, and Nov 13. See 'Notes' for Evening Exams							
4.0- 4.0	75510	RSD	2A	TTh	08:00 - 08:50 am	PHYS	00130	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	75933	RSD	2B	TTh	08:00 - 08:50 am	PHYS	00129	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	75511	RSD	2C	TTh	09:00 - 09:50 am	PHYS	00130	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	75512	RSD	2D	TTh	09:00 - 09:50 am	PHYS	00129	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	75513	RSD	2E	TTh	09:00 - 09:50 am	BCH	00314	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	75514	RSD	2F	TTh	10:00 - 10:50 am	PHYS	00130	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	75515	RSD	2G	TTh	10:00 - 10:50 am	PHYS	00129	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	75516	RSD	2H	TTh	10:00 - 10:50 am	TMH	00249	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	75517	RSD	2J	TTh	11:00 - 11:50 am	PHYS	00130	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	75778	RSD	2K	TTh	11:00 - 11:50 am	PHYS	00129	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	75708	RSD	2L	TTh	11:00 - 11:50 am	BCH	00216	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	75518	RSD	2M	TTh	12:00 - 12:50 pm	PHYS	00130	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	76620	RSD	2N	TTh	12:00 - 12:50 pm	BCH	00216	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	76621	RSD	2P	TTh	12:00 - 12:50 pm	PHYS	00129	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	76622	RSD	2Q	TTh	01:00 - 01:50 pm	PHYS	00130	Musser,J	
		See 'Notes' for Evening Exams							
4.0- 4.0	76623	RSD	2R	TTh	01:00 - 01:50 pm	PHYS	00129	Musser,J	
		See 'Notes' for Evening Exams							
0.0- 0.0	75519	LAB	3L01	M	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	75520	LAB	3L02	M	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	75521	LAB	3L03	M	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	75522	LAB	3L04	M	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	75523	LAB	3L05	M	06:00 - 07:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	75524	LAB	3L06	M	06:00 - 07:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	75525	LAB	3L07	W	11:00 - 12:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	75526	LAB	3L09	T	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	75527	LAB	3L10	T	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
0.0- 0.0	75528	LAB	3L11	T	03:00 - 04:50 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	75529	LAB	3L12	T	03:00 - 04:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	75530	LAB	3L13	W	01:00 - 02:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	75531	LAB	3L14	W	01:00 - 02:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	75532	LAB	3L15	W	03:00 - 04:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	75533	LAB	3L16	W	03:00 - 04:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	75534	LAB	3L17	W	06:00 - 07:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	75709	LAB	3L18	W	06:00 - 07:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	75767	LAB	3L19	F	11:00 - 12:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	75779	LAB	3L20	F	11:00 - 12:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	76346	LAB	3L21	Th	01:00 - 02:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	76624	LAB	3L22	Th	01:00 - 02:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	76625	LAB	3L23	Th	03:00 - 04:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	76626	LAB	3L24	Th	03:00 - 04:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	76627	LAB	3L25	Th	06:00 - 07:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	76628	LAB	3L26	Th	06:00 - 07:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	76629	LAB	3L27	F	01:00 - 02:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	76918	LAB	3L28	F	01:00 - 02:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
	0.0- 0.0	77258	LAB	3L08	W	11:00 - 12:50 pm	PHYS	00214	Waddill,G
									See 'Notes' for Evening Exams
2305		75535	LEC	1A	MWF	02:00 - 02:50 pm	PHYS	00104	Story,J
	Introduction To Modern Physics Prerequisites: Math 2222 and Physics 2135 or 2111.								
3000		75536	IND	6A	ARR	ARR	ARR		Peacher,J
	Special Problems Prerequisite: Consent of instructor required.								
3119		75538	LAB	3A	TTh	12:30 - 03:15 pm	PHYS	00219	Kurter,C
	Advanced Physics Laboratory I Prerequisite: Physics 2129.								
3129		75539	LAB	3A	TTh	12:30 - 03:15 pm	PHYS	00219	Kurter,C
	Advanced Physics Laboratory II Prerequisite: Physics 2129.								
3201		76307	LEC	1A	TTh	11:00 - 12:15 pm	PHYS	00127	Chernatynskiy,A
	Physical Mechanics Prerequisite: Physics 2401.								
3311		75750	LEC	1A	MWF	01:00 - 01:50 pm	PHYS	00127	Schulz,M
	Modern Physics II Prerequisites: Math 3304 or 3329, and either Physics 2305 with consent of instructor or Physics 2311.								
4099		75542	IND	6A	ARR	ARR	ARR		Chernatynskiy,A
		75543	IND	6B	ARR	ARR	ARR		Fischer,D
		75544	IND	6C	ARR	ARR	ARR		Hale,B
		75545	IND	6D	ARR	ARR	ARR		Hor,Y
		75806	IND	6E	ARR	ARR	ARR		Jentschura,U
		75546	IND	6F	ARR	ARR	ARR		Kurter,C
		75547	IND	6G	ARR	ARR	ARR		Madison,D
		75548	IND	6H	ARR	ARR	ARR		Medvedeva,I
		75549	IND	6J	ARR	ARR	ARR		Peacher,J
		75550	IND	6K	ARR	ARR	ARR		Schulz,M
		75551	IND	6L	ARR	ARR	ARR		Story,J
		75807	IND	6M	ARR	ARR	ARR		Vojta,S
		76084	IND	6N	ARR	ARR	ARR		Waddill,G
		76993	IND	6P	ARR	ARR	ARR		Wilemski,G

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4211 Electricity And Magnetism II Prerequisite: Physics 3211.	0.0- 6.0 3.0- 3.0	76994 75537	IND LEC	6Q 1A	ARR MWF	ARR 10:00 - 10:50 am	ARR PHYS		Yamilov,A Peacher,J
4301 Introduction To Quantum Mechanics Prerequisites: Physics 2305 or 2311, 2401.	3.0- 3.0	75540	LEC	1A	MWF	11:00 - 11:50 am	PHYS	00127	Story,J
4503 Classical Optics Prerequisites: Math 2222 and Physics 2135 or 2111. (Co-listed with Elec Eng 5200)	3.0- 3.0	78162	LEC	1A	MWF	09:00 - 09:50 am	PHYS	00127	Yamilov,A
4523 Principles Of Engineering Materials (Co-listed with Aero Eng 3877, Chem Eng 5300, Met Eng 5810, Cer Eng 5810)	3.0- 3.0	75541	LEC	1A	MWF	08:00 - 08:50 am	MCNT	00216	Newkirk,J
4543 Plasma Physics I Prerequisite: Aero Eng 3131 or Mech Eng 3131 or Physics 3211 or Nuc Eng 3221 or Elec Eng 3600. (Co-listed with Aero Eng 5570, Mech Eng 5570, Nuc Eng 4370)	3.0- 3.0	77981	LEC	1A	TTh	08:00 - 09:15 am	TMH	00249	Han,D
5201 Classical Mechanics I Prerequisites: Math 3304, Physics 3201.	3.0- 3.0	77551	LEC	1A	TTh	12:30 - 01:45 pm	PHYS	00127	Wilemski,G
5413 Chaos, Fractals, and Nonlinear Dynamics Prerequisites: Math 3304; Physics 2135 or Physics 2111.	3.0- 3.0	78164	LEC	1A	MWF	03:00 - 03:50 pm	PHYS	00127	Vojta,S
6000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0 0.0- 6.0 0.0- 6.0	75552 75553 75554	IND IND IND	6A 6B 6C	ARR ARR ARR	ARR ARR ARR	ARR ARR ARR		Parris,P Peacher,J Story,J
6002 Coop Registration	0.0- 1.0	75573	IND	6A	ARR	ARR	ARR		Peacher,J
6010 Seminar	0.0- 6.0	75556	RSD	2A	Th	03:30 - 05:20 pm	PHYS	00104	Chernatynskiy,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	75572	IND	6A	ARR	ARR	ARR		Waddill,G
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	75574	IND	6A	ARR	ARR	ARR		Waddill,G
6099 Research Prerequisite: Consent of instructor required.	0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0	75557 75558 75559 75560 75561 75562 75808 75563 75564 75565 75566 75567 75568 75569 75570	IND IND IND IND IND IND IND IND IND IND IND IND IND IND IND	6A 6B 6C 6D 6E 6F 6G 6H 6J 6K 6L 6M 6N 6P 6Q	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR		Chernatynskiy,A Fischer,D Hor,Y Jentschura,U Kurter,C Madison,D Medvedeva,I Parris,P Peacher,J Schulz,M Story,J Vojta,S Waddill,G Wilemski,G Yamilov,A
6301 Quantum Mechanics II Prerequisite: Physics 5301.	3.0- 3.0	76008	LEC	1A	TTh	09:30 - 10:45 am	PHYS	00127	Parris,P

UM Shared Course-Primary

Political Science

1200 American Government	3.0- 3.0 3.0- 3.0 3.0- 3.0 3.0- 3.0 3.0- 3.0	76220 76221 76962 76963 77557	LEC LEC LEC LEC LEC	1A 1B 1C 1D 1E	MWF MWF TTh TTh TTh	01:00 - 01:50 pm 02:00 - 02:50 pm 09:30 - 10:45 am 12:30 - 01:45 pm 02:00 - 03:15 pm	H-SS H-SS CS CS MCNT	00201 00201 00216 00207 00210	Meagher,M Meagher,M Isaac,T Isaac,T Krolikowski,A
2500 International Relations Prerequisite: Pol Sci 1200 or History 1300 or 1310.	3.0- 3.0	77558 77897	LEC LEC	1F 1A	TTh TTh	12:30 - 01:45 pm 03:30 - 04:45 pm	MCNT H-SS	00210 00201	Krolikowski,A Isaac,T

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3001 Special Topics	3.0- 3.0	78212	LEC	1A	ARR	ARR	ARR		Robertson,D
									Environmental Policy
									UM Shared Course-Secondary
	0.0- 6.0	78220	LEC	1B	ARR	ARR	ARR		Meagher,M
									Politics of Poverty & Welfare
									Class will meet the 2nd 8 weeks of the semester.
									UM Shared Course-Secondary
3762 American Foreign Policy Since 1945 Prerequisite: History 1310 or Pol Sci 1200. (Co-listed with History 3762)	3.0- 3.0	77890	LEC	1A	W	06:00 - 08:45 pm	H-SS	00103	Meagher,M
4000 Special Problems And Readings Prerequisite: Consent of instructor required.	0.0- 6.0	75575	IND	6A	ARR	ARR	ARR		Meagher,M
4085 Political Science Internship Prerequisite: Pol Sci 1200 or Pol Sci 1100.	0.0- 6.0	75576	IND	6A	ARR	ARR	ARR		Meagher,M

Psychology

1100 Introduction to Psychology	1.0- 1.0	75753	LEC	1A	T	02:00 - 02:50 pm	H-SS	00103	Murray,S
1101 General Psychology	3.0- 3.0	75577	LEC	1A	TTh	03:30 - 04:45 pm	TMH	00199	Baker,D
	3.0- 3.0	75578	LEC	1B	MWF	10:00 - 10:50 am	H-SS	000G5	Krueger,M
	3.0- 3.0	75579	LEC	1C	T	06:00 - 08:45 pm	H-SS	000G5	Stratman,T
	3.0- 3.0	77236	LEC	1D	CANCELLED				
2300 Educational Psychology Prerequisite: Psych 1101. (Co-listed with Educ 2102)	3.0- 3.0	75580	LEC	1A	M	04:00 - 06:30 pm	BCH	00124	Spooner,P
3001 Special Topics Prerequisites: Psych 1101.	3.0- 3.0	78054	LEC	1B	CANCELLED				
3310 Developmental Psychology Prerequisite: Psych 1101.	3.0- 3.0	75581	LEC	1A	MWF	11:00 - 11:50 am	BCH	00124	Krueger,M
3400 Theories Of Learning Prerequisite: Psych 1101.	3.0- 3.0	76160	LEC	1A	MWF	02:00 - 02:50 pm	CS	00204	Krueger,M
3501 Drugs and Behavior Prerequisites: Psych 1101.	3.0- 3.0	78303	LEC	1A	MWF	12:00 - 12:50 pm	H-SS	000G7	Henslee,A
4000 Special Problems And Readings In Psychology	0.0- 6.0	75584	IND	6A	ARR	ARR	ARR		Baker,D
	0.0- 6.0	75582	IND	6B	ARR	ARR	ARR		Belfi,A
	0.0- 6.0	75583	IND	6C	ARR	ARR	ARR		Burns,D
	0.0- 6.0	76299	IND	6D	ARR	ARR	ARR		Henslee,A
	0.0- 6.0	76468	IND	6E	ARR	ARR	ARR		Kueny,C
	0.0- 6.0	77349	IND	6F	ARR	ARR	ARR		Murray,S
	0.0- 6.0	77350	IND	6G	ARR	ARR	ARR		Shank,D
	0.0- 6.0	77351	IND	6H	ARR	ARR	ARR		Stone,N
	0.0- 6.0	77352	IND	6J	ARR	ARR	ARR		Weidner,N
4099 Undergraduate Research Prerequisite: Instructor consent.	0.0- 6.0	75765	IND	6A	ARR	ARR	ARR		Baker,D
	0.0- 6.0	75587	IND	6B	ARR	ARR	ARR		Belfi,A
	0.0- 6.0	75588	IND	6C	ARR	ARR	ARR		Cundiff,J
	0.0- 6.0	76300	IND	6D	ARR	ARR	ARR		Henslee,A
	0.0- 6.0	77647	IND	6E	ARR	ARR	ARR		Kueny,C
	0.0- 6.0	77870	IND	6F	ARR	ARR	ARR		Murray,S
	0.0- 6.0	78046	IND	6G	ARR	ARR	ARR		Stone,N
	0.0- 6.0	78159	IND	6H	ARR	ARR	ARR		Weidner,N
	0.0- 6.0	78273	IND	6J	ARR	ARR	ARR		Shank,D
	0.0- 6.0	78274	IND	6K	ARR	ARR	ARR		Burns,D
4310 Psychology Of The Exceptional Child Prerequisite: Psych 1101. (Co-listed with Educ 4310)	3.0- 3.0	75586	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00103	Krueger,M
4400 Cognitive Psychology Prerequisite: Psych 1101.	3.0- 3.0	78043	LEC	1A	TTh	12:30 - 01:45 pm	FUL	00227	Belfi,A
4410 Neuroscience Prerequisite: Psych 1101.	3.0- 3.0	78044	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00206	Belfi,A
4411 Sensation and Perception Prerequisite: Psych 1101.	3.0- 3.0	78045	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00314	Burns,D
4501 Abnormal Psychology Prerequisite: Psych 1101.	3.0- 3.0	76059	LEC	1A	MWF	02:00 - 02:50 pm	CS	00202	Henslee,A
4600 Social Psychology Prerequisite: Psych 1101.	3.0- 3.0	76853	LEC	1A	MWF	10:00 - 10:50 am	CS	00204	Shank,D

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4601 Group Dynamics Prerequisite: Psych 1101.	3.0- 3.0	77237	LEC	1A	MWF	03:00 - 03:50 pm	BCH	00317	Shank,D
4602 Organizational Psychology Prerequisite: Psych 1101.	3.0- 3.0	78047	LEC	1A	TTh	02:00 - 03:15 pm	CS	00205	Weidner,N
4700 Industrial Psychology Prerequisite: Psych 1101.	3.0- 3.0	76469	LEC	1A	TTh	12:30 - 01:45 pm	CS	00204	Stone,N
4710 Human Factors Prerequisite: Psych 1101. (Co-listed with Eng Mgt 4330)	3.0- 3.0	75585	LEC	1A	TTh	09:30 - 10:45 am	TMH	00295	Murray,S
4993 Psychology of Gender Prerequisite: Psych 1101.	3.0- 3.0	76058	LEC	1A	CANCELLED				
5000 Special Problems	0.0- 6.0	77359	IND	6A	ARR	ARR	ARR		Baker,D
5020 Introduction to Industrial-Organizational Psychology Prerequisite: Graduate standing.	3.0- 3.0	78299	LEC	1A	Th	04:00 - 06:30 pm	H-SS	00105	Kueny,C
5202 Applied Psychological Data Analysis Prerequisite: Graduate standing.	3.0- 3.0	77546	LEC	1A	M	07:00 - 09:30 pm	H-SS	00105	Burns,D
5210 Advanced Research Methods Prerequisite: Graduate standing.	3.0- 3.0	76854	LEC	1A	W	04:00 - 06:30 pm	H-SS	00105	Weidner,N
5710 Advanced Human Factors (Co-listed with Eng Mgt 5330)	3.0- 3.0	77238	LEC	1A	T	07:00 - 09:30 pm	H-SS	00105	Baker,D
6099 Research Prerequisites: Consent of instructor required.	0.0- 6.0	77105	IND	6A	ARR	ARR	ARR		Baker,D
	0.0- 6.0	77106	IND	6B	ARR	ARR	ARR		Burns,D
	0.0- 6.0	77711	IND	6C	ARR	ARR	ARR		Cundiff,J
	0.0- 6.0	77717	IND	6D	ARR	ARR	ARR		Kueny,C
	0.0- 6.0	78049	IND	6E	ARR	ARR	ARR		Shank,D
	0.0- 6.0	78050	IND	6F	ARR	ARR	ARR		Stone,N
	0.0- 6.0	78160	IND	6H	ARR	ARR	ARR		Weidner,N
6602 Employee Affect and Behavior Prerequisite: Psych 5010.	3.0- 3.0	78051	LEC	1A	M	04:00 - 06:30 pm	H-SS	00105	Kueny,C
6611 Leadership for Engineers Prerequisite: Eng Mgt 5110 or Psych 4602. (Co-listed with Eng Mgt 6112)	3.0- 3.0	76414	LEC	1A	ARR	ARR	ARR		Daughton,W
6702 Personnel Selection Prerequisite: Psych 5700.	3.0- 3.0	77240	LEC	1A	T	04:00 - 06:30 pm	BERTELS	00B12B	Stone,N

Russian

1101 Elementary Russian I Prerequisite: Entrance requirements.	4.0- 4.0	75589	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00106	Ivliyeva,I
1180 Readings In Science And Literature Prerequisite: Russian 1102.	4.0- 4.0	75590	LEC	1A	TTh	08:00 - 09:15 am	EMGT	00106	Ivliyeva,I
3790 Scientific Russian Prerequisite: Russian 1180 or above.	3.0- 3.0	77411	LEC	1A	T	05:00 - 06:40 pm	H-SS	00202	Ivliyeva,I
						One hour arranged.			
			LEC	1A	ARR	ARR	ARR		
						One hour arranged.			

Spanish

1101 Elementary Spanish I Prerequisite: Entrance requirements.	4.0- 4.0	75591	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00102	Porcel,J
1102 Elementary Spanish II Prerequisite: Spanish 1101.	4.0- 4.0	77259	LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00104	Porcel,J
1180 Readings And Composition Prerequisite: Spanish 1102.	4.0- 4.0	75941	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00203	
4302 Phonetics and Phonology of Spanish	3.0- 3.0	77273	LEC	1A	TTh	12:30 - 01:45 pm	H-SS	000G8	Porcel,J

Speech & Media Studies

1185 Principles Of Speech Prerequisite: Entrance requirements.	3.0- 3.0	75669	LEC	1A	MWF	09:00 - 09:50 am	H-SS	000G9	Robertson,T
			Communication Intensive						
	3.0- 3.0	75667	LEC	1B	MWF	10:00 - 10:50 am	H-SS	000G9	Lillie,C
			Communication Intensive						
	3.0- 3.0	75668	LEC	1C	MWF	11:00 - 11:50 am	H-SS	000G9	Lillie,C
			Communication Intensive						
	3.0- 3.0	75737	LEC	1D	MWF	01:00 - 01:50 pm	H-SS	000G9	Lillie,C
			Communication Intensive						
	3.0- 3.0	75592	LEC	1E	MWF	02:00 - 02:50 pm	H-SS	000G9	Lillie,C
			Communication Intensive						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	3.0- 3.0	76312	LEC	1F	MWF	03:00 - 03:50 pm	H-SS	000G9	Robertson,T
			Communication Intensive						
	3.0- 3.0	76630	LEC	1G	TTh	11:00 - 12:15 pm	H-SS	000G8	Devault,T
			Communication Intensive						
	3.0- 3.0	75593	LEC	1H	TTh	12:30 - 01:45 pm	H-SS	000G9	James,K
			Communication Intensive						
	3.0- 3.0	75594	LEC	1J	TTh	02:00 - 03:15 pm	H-SS	00104	Devault,T
			Communication Intensive						
	3.0- 3.0	75936	LEC	1K	TTh	03:30 - 04:45 pm	H-SS	00104	Devault,T
			Communication Intensive						
	3.0- 3.0	76557	LEC	1L	TTh	03:30 - 04:45 pm	H-SS	000G9	James,K
			Communication Intensive						
	3.0- 3.0	75965	LEC	1M	TTh	06:00 - 07:15 pm	H-SS	000G9	Haynes,W
			Communication Intensive						
	3.0- 3.0	77746	LEC	1N	TTh	02:00 - 03:15 pm	H-SS	000G9	James,K
			Communication Intensive						
	3.0- 3.0	77763	LEC	1P	MWF	11:00 - 11:50 am	H-SS	000G8	Robertson,T
			Communication Intensive						
	3.0- 3.0	78019	LEC	1Q	TTh	09:30 - 10:45 am	H-SS	000G7	James,K
			Communication Intensive						
2000	Special Problems	0.0- 6.0	IND	6A	ARR	ARR	ARR		Haynes,W
	Prerequisite: Consent of instructor required.								
2181	Communication Theory	3.0- 3.0	LEC	1B	TTh	12:30 - 01:45 pm	H-SS	00104	Devault,T
			Communication Emphasized						
3000	Special Problems	0.0- 6.0	IND	6A	ARR	ARR	ARR		Haynes,W
	Prerequisite: Consent of instructor required.								
		0.0- 6.0	IND	6B	ARR	ARR	ARR		Robertson,T
3221	Fundamentals in Photography	3.0- 3.0	LEC	1A	W	06:30 - 09:15 pm	CSF	00114	Rupert,B
	Prerequisite: Sp&M S 1185 or 2181 (required for Speech minor credit); Art 1180 or Art 1185 (required for Art minor credit). (Co-listed with Art 3221)								
		3.0- 3.0	LEC	1B	Th	06:30 - 09:15 pm	CSF	00114	Rupert,B
		3.0- 3.0	LEC	1C	T	04:30 - 07:30 pm	CSF	00114	Phelan,R
3255	Discussion And Conference Methods	3.0- 3.0	LEC	1A	TTh	02:00 - 03:15 pm	CH	00104	Haynes,W
	Prerequisite: Sp&M S 2181.								
3265	Leadership Communication	3.0- 3.0	LEC	1A	MWF	10:00 - 10:50 am	H-SS	000G8	Robertson,T
	Prerequisites: Sp&M S 2181, 3250.								
3275	Foundations of Media Communication	3.0- 3.0	LEC	1A	MWF	01:00 - 01:50 pm	FUL	00220	Robertson,T
	Prerequisite: Sp&M S 1185.								
4000	Special Problems	0.0- 6.0	IND	6A	ARR	ARR	ARR		Haynes,W
5000	Special Problems	0.0- 6.0	IND	6A	ARR	ARR	ARR		Haynes,W

Statistics

1115	Statistics For The Social Sciences I	3.0- 3.0	LEC	1A	TTh	03:30 - 04:45 pm	EECH	00104	Koob,K
3111	Statistical Tools For Decision Making	3.0- 3.0	LEC	1A	TTh	02:00 - 02:50 pm	EECH	00104	Koob,K
	Prerequisite: Math 1208 or 1212 or 1214 with a grade of "C" or better.								
		3.0- 3.0	LAB	3A	W	02:00 - 03:50 pm	CS	00206	Koob,K
3113	Applied Engineering Statistics	3.0- 3.0	LEC	1A	MWF	09:00 - 09:50 am	FUL	00227	Codjoe,P
	Prerequisite: Math 1215 or 1221 with a grade of "C" or better.								
		3.0- 3.0	LEC	1B	MWF	08:00 - 08:50 am	FUL	00227	Codjoe,P
	All students in Stat 3113 are scheduled for exams at 5:00pm on Thursday 9/13, Thursday 10/11, and Wednesday 11/28.								
		3.0- 3.0	LEC	1C	TTh	08:00 - 09:15 am	BCH	00315	Yatawara,K
	All students in Stat 3113 are scheduled for exams at 5:00pm on Thursday 9/13, Thursday 10/11, and Wednesday 11/28.								
		3.0- 3.0	LEC	1D	TTh	09:30 - 10:45 am	TMH	00256	Yatawara,K
	All students in Stat 3113 are scheduled for exams at 5:00pm on Thursday 9/13, Thursday 10/11, and Wednesday 11/28.								

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	3.0- 3.0	78192	LEC	1E	MWF	02:00 - 02:50 pm	TMH	00256	Alhassan,D	
									All students in Stat 3113 are scheduled for exams at 5:00pm on Thursday 9/13, Thursday 10/11, and Wednesday 11/28.	
	3.0- 3.0	78193	LEC	1F	MWF	03:00 - 03:50 pm	TMH	00256	Alhassan,D	
									All students in Stat 3113 are scheduled for exams at 5:00pm on Thursday 9/13, Thursday 10/11, and Wednesday 11/28.	
3115	Engineering Statistics	3.0- 3.0	75919	LEC	1A	MWF	11:00 - 11:50 am	IDE	00206	Su,Y
	Prerequisite: Math 1215 or 1221 with a grade of "C" or better.	3.0- 3.0	75603	LEC	1B	TTh	09:30 - 10:45 am	CH	00104	Paige,R
3117	Introduction To Probability And Statistics	3.0- 3.0	77687	LEC	1C	MWF	02:00 - 02:50 pm	BCH	00124	Su,Y
	Prerequisite: Math 2222 with a grade of "C" or better.	3.0- 3.0	75760	LEC	1A	MWF	01:00 - 01:50 pm	MCNT	00211	Wen,X
4000	Special Problems	0.0- 6.0	75604	IND	6A	ARR	ARR	ARR		Adekpedjou,A
	Prerequisite: Consent of instructor required.									
4099	Undergraduate Research	0.0- 6.0	76464	IND	6A	ARR	ARR	ARR		Olbricht,G
	Prerequisite: Consent of instructor.	0.0- 6.0	76683	IND	6B	ARR	ARR	ARR		Samaranayake,V
5353	Statistical Data Analysis	3.0- 3.0	75606	LEC	1A	TTh	12:30 - 01:45 pm	CH	00105	Samaranayake,V
	Prerequisites: Math 2222 and one of Stat 1115, 3113, 3115 and 3117. Two evening makeup classes.									See 'Notes' for Class Schedule
5425	Introduction to Biostatistics	4.0- 4.0		LEC	1A	MWF	01:00 - 01:50 pm	CS	00203	Koob,K
	Prerequisites: A grade of "C" or better in Math 1120, Math 1140, Math 1208, Math 1212, or Math 1214.	4.0- 4.0	76519	LAB	3A	W	04:00 - 05:50 pm	CH	00105	Koob,K
5643	Probability And Statistics	3.0- 3.0	75605	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00213	Adekpedjou,A
	Prerequisite: Math 2222.									
5756	Statistical Models for Life Contingencies	3.0- 3.0	78191	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00249	Adekpedjou,A
	Prerequisite: Stat 5643.									UM Shared Course-Primary
5814	Applied Time Series Analysis	3.0- 3.0	78190	LEC	1A	TTh	03:30 - 04:45 pm	ROLLA	000G4	Samaranayake,V
	Prerequisite: Stat 5643.									
6000	Special Problems	0.0- 6.0	75607	IND	6A	ARR	ARR	ARR		Adekpedjou,A
	Prerequisite: Consent of instructor required.	0.0- 6.0	76571	IND	6B	ARR	ARR	ARR		Samaranayake,V
6001	Special Topics	3.0- 3.0	77928	LEC	1A	T	04:00 - 06:30 pm	BERTELS	00B12A	Qin,R
	Prerequisites: An undergraduate calculus based statistics course and one of Eng Mgt 6212, Sys Eng 6612, Eng Mgt 6213, or Sys Eng 6613. (Co-listed with Eng Mgt 6001)									Financial Data Analysis
6099	Research	0.0-15.0	75715	IND	6A	ARR	ARR	ARR		Adekpedjou,A
		0.0-15.0	75608	IND	6B	ARR	ARR	ARR		Olbricht,G
		0.0-15.0	76219	IND	6C	ARR	ARR	ARR		Paige,R
		0.0-15.0	76438	IND	6D	ARR	ARR	ARR		Samaranayake,V
		0.0-15.0	76574	IND	6E	ARR	ARR	ARR		Wen,X
6545	Multivariate Statistical Methods	3.0- 3.0	78189	LEC	1A	TTh	12:30 - 01:45 pm	ROLLA	000G4	Paige,R
	Prerequisites: Stat 5644 and Math 3103.									
6553	Linear Statistical Models I	3.0- 3.0	78188	LEC	1A	MWF	10:00 - 10:50 am	ROLLA	000G4	Wen,X
	Prerequisites: Math 3108 and Stat 5643 and either Stat 5353 or 5644.									

Systems Engineering

5101	System Engineering and Analysis	3.0- 3.0	75734	LEC	1A	T	04:00 - 06:30 pm	LIB	000G14	Pape II,L
	Prerequisite: Graduate Standing.									
5211	Computational Intelligence	3.0- 3.0	75935	LEC	1A	W	04:00 - 06:30 pm	TMH	00260	Corns,S
	Prerequisite: Graduate Standing. (Co-listed with Elec Eng 5310 and Comp Eng 5310)									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5323 Wireless Networks Prerequisites: Hardware competency, Elec Eng 3420 or Comp Eng 3150 and graduate standing. (Co-listed with Comp Eng 5430 and Elec Eng 5430)	3.0- 3.0 3.0- 3.0		LEC LAB	1A 3A	MW F	08:00 - 08:50 am 08:00 - 08:50 am	CS CS	00209 00209	Zawodniok,M Zawodniok,M
6040 Oral Examination	0.0- 0.0	76681	IND	6A	ARR	ARR	ARR		Long,S
6050 Continuous Registration	1.0- 1.0	76555	IND	6A	ARR	ARR	ARR		Long,S
6099 Research Prerequisite: Graduate standing.	1.0-15.0 1.0-15.0	76669 76670	IND	6A 6B	ARR ARR	ARR ARR	ARR ARR		Corns,S Cudney,E
	1.0-15.0	76671	IND	6C	ARR	ARR	ARR		Dagli,C
	1.0-15.0	76672	IND	6D	ARR	ARR	ARR		Enke,D
	1.0-15.0	76673	IND	6E	ARR	ARR	ARR		Gosavi,A
	1.0-15.0	76674	IND	6F	ARR	ARR	ARR		Grantham,K
	1.0-15.0	76675	IND	6G	ARR	ARR	ARR		Guardiola,I
	1.0-15.0	76676	IND	6H	ARR	ARR	ARR		Konur,D
	1.0-15.0	76677	IND	6J	ARR	ARR	ARR		Long,S
	1.0-15.0	76678	IND	6K	ARR	ARR	ARR		Qin,R
	1.0-15.0	76679	IND	6L	ARR	ARR	ARR		Raper,S
6102 Information Based Design Prerequisites: Graduate Standing.	3.0- 3.0	76080	LEC	1A	W	04:00 - 06:30 pm	LIB	000G14	Qin,R
6104 Systems Architecting Prerequisites: Graduate Standing.	3.0- 3.0	76081	LEC	1A	T	07:00 - 09:30 pm	LIB	000G14	Dagli,C
6196 Systems Engineering Capstone Prerequisites: Sys Eng 6105.	3.0- 3.0	75882	LEC	1A	M	07:00 - 09:30 pm	LIB	00316	Pape II,L
6213 Deep Learning and Advanced Neural Networks Prerequisite: Sys Eng 5212 or equivalent neural network course.	3.0- 3.0	77714	LEC	1A	W	04:00 - 06:30 pm	BERTELS	00B12A	Dagli,C
6239 Smart Engineering System Design Prerequisites: Graduate Standing.	3.0- 3.0	76867	LEC	1A	M	07:00 - 09:30 pm	LIB	000G14	Dagli,C Curry,D
6541 Distributed Systems Modeling	3.0- 3.0	76868	LEC	1A	Th	07:00 - 09:30 pm	LIB	000G14	
6542 Model Based Systems Engineering Prerequisites: Graduate Standing. (Co-listed with COMP SCI 6102)	3.0- 3.0	78008	LEC	1A	F	04:00 - 06:30 pm	BERTELS	00B12A	Do,Q
6612 Investment Prerequisite: Eng Mgt 1210 or 5210. (Co-listed with Eng Mgt 6212)	3.0- 3.0	76928	LEC	1A	W	04:00 - 06:30 pm	CS	00209	Enke,D
6613 Financial Engineering Prerequisites: Eng Mgt 1210 or 5210. (Co-listed with Eng Mgt 6213)	3.0- 3.0	76929	LEC	1A	M	04:00 - 06:30 pm	LIB	000G14	Enke,D

Technical Communication

1600 Introduction to Technical Communication Prerequisite: English 1120. (Co-listed with English 1600)	3.0- 3.0 3.0- 3.0	75758 76393	LEC LEC	1A 1B	MWF MWF	09:00 - 09:50 am 10:00 - 10:50 am	CS CSF	00206 00114	
2540 Layout and Design Prerequisite: TCH COM 1600 or English 1600. (Co-listed with English 2540)	3.0- 3.0	76610	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00313	Kerwin,R
2560 Technical Marketing Communication Prerequisites: English 1600 or Tch Com 1600 or English 1160. (Co-listed with ENGLISH 2560)	3.0- 3.0 3.0- 3.0	76528 76509	LEC LEC	1A 1B	ARR MWF	ARR 09:00 - 09:50 am	ARR CSF		Wright,M Roberson,E
3000 Special Problems	0.0- 6.0	75860	IND	6A	ARR	ARR	ARR		Malone,E
3001 Special Topics	3.0- 3.0	78003	LEC	1A	CANCELLED				
3550 Writing for Social Media Prerequisites: One semester of college composition or technical writing. (Co-listed with ENGL 3550)	3.0- 3.0	78301	LEC	1A	ARR	ARR	ARR		Malone,E
3570 Writing in the Sciences Prerequisites: English 1120 or equivalent. Class meets second 8 weeks of the semester.	3.0- 3.0	77274	LEC	1A	ARR	ARR	ARR		
4085 Internship Prerequisites: Must have completed 24 hours in the major core curriculum.	0.0- 6.0	76004	IND	6A	ARR	ARR	ARR		Malone,E
5000 Special Problems	0.0- 6.0	76565	IND	6A	ARR	ARR	ARR		Malone,E

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5040 Oral Examination	0.0- 0.0	76025	IND	6A	ARR	ARR	ARR		Malone,E
5099 Research	0.0-15.0	76005	IND	6A	ARR	ARR	ARR		Malone,E
	0.0-15.0	77316	IND	6B	ARR	ARR	ARR		Wright,M
	0.0-15.0	78258	IND	6C	ARR	ARR	ARR		Northcut,K
5530 Usability Studies	3.0- 3.0	78001	LEC	1A	M	06:00 - 09:00 pm	H-SS	00202	Wright,M
Prerequisites: One semester of college composition or technical writing, or graduate standing.	3.0- 3.0	78004	LEC	1B	M	06:00 - 09:00 pm	ARR		Wright,M
5620 Research Methods in Technical Communication	3.0- 3.0	78029	LEC	1A	T	07:00 - 07:50 pm	ARR		Malone,E
Prerequisites: One semester of college composition or technical writing, or graduate standing.									
									UM Shared Course-Primary
6070 Teaching of Technical Communication	3.0- 3.0	78066	LEC	1A	TTh	12:30 - 01:45 pm	CSF	00114	
6600 Foundations of Technical Communication	3.0- 3.0	78005	LEC	1A	W	07:00 - 07:50 pm	ARR		Malone,E
Theatre									
1142 Stage Productions, Performers	1.0- 1.0	75609	LAB	3A	ARR	ARR	ARR		Stanley,J
Prerequisite: Participants selected by audition.									
1143 Stage Productions, Technicians	1.0- 1.0	75610	LAB	3A	ARR	ARR	ARR		Gruenloh,T
1190 Theatre via Video	3.0- 3.0	75611	LEC	1A	T	09:30 - 10:45 am	CASTL	00143	Gruenloh,T
									Field Trip Required
			LEC	1A	ARR	ARR	ARR		
									Field Trip Required
2000 Special Problems	0.0- 6.0	75612	IND	6A	ARR	ARR	ARR		Shaw,K
2141 Acting I	3.0- 3.0	76506	LEC	1A	TTh	03:30 - 04:45 pm	CASTL	00143	Stanley,J
2143 Stagecraft	3.0- 3.0		LEC	1A	MW	03:00 - 03:50 pm	CASTL	00143	Shaw,K
	3.0- 3.0	76430	LAB	3A	MW	03:50 - 05:00 pm	CASTL	00143	Shaw,K
3000 Special Problems	0.0- 6.0	75613	IND	6A	ARR	ARR	ARR		Shaw,K
Prerequisite: Consent of instructor.									
4000 Special Problems	0.0- 6.0	76088	IND	6A	ARR	ARR	ARR		Shaw,K