

2019 SPRING SEMESTER MAIN MISSOURI S&T CAMPUS CLASS OFFERINGS

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
Aerosp Studies-Air Force ROTC									
1120 Foundations Of The U.S. Air Force II	1.0- 1.0		LEC	1A	W	10:00 - 10:50 am	HARR	00208	Ice,K
	1.0- 1.0		LEC	1B	W	02:00 - 02:50 pm	HARR	00208	Ice,K
	1.0- 1.0	70037	LAB	3A	Th	03:30 - 05:30 pm	BCH	00120	Logsdon,C
	1.0- 1.0	70039	LAB	3B	Th	03:30 - 05:30 pm	BCH	00120	Logsdon,C
2120 The Evolution Of USAF Air And Space Power II	1.0- 1.0		LEC	1A	W	11:00 - 11:50 am	HARR	00208	Unger,B
	1.0- 1.0		LEC	1B	W	03:00 - 03:50 pm	HARR	00208	Unger,B
	1.0- 1.0	70041	LAB	3A	Th	03:30 - 05:30 pm	BCH	00120	Logsdon,C
	1.0- 1.0	71466	LAB	3B	Th	03:30 - 05:30 pm	BCH	00120	Logsdon,C
3120 Air Force Leadership Studies II	3.0- 3.0		LEC	1A	T	03:00 - 05:30 pm	HARR	00208	Ice,K
	3.0- 3.0	70043	LAB	3A	Th	03:30 - 05:30 pm	BCH	00120	Logsdon,C
4120 National Security Affairs/Preparation For Active Duty II	3.0- 3.0		LEC	1A	T	05:30 - 08:00 pm	HARR	00208	Logsdon,C
	3.0- 3.0	70045	LAB	3A	Th	03:30 - 05:30 pm	BCH	00120	Logsdon,C
Aerospace Engineering									
2360 Dynamics	3.0- 3.0	71017	LEC	1A	MWF	09:00 - 09:50 am	TMH	00254	Du,X
Prerequisite: Grade of "C" or better in each of Civ Eng 2200, Math 2222. (Co-listed with Mech Eng 2360)	3.0- 3.0	71018	LEC	1B	TTh	12:30 - 01:45 pm	BERTELS	00B10	Kumar,N
	3.0- 3.0	72193	LEC	1C	TTh	02:00 - 03:15 pm	TMH	00199	
2780 Introduction to Aerospace Design	2.0- 2.0		LEC	1A	F	08:00 - 08:50 am	EMGT	00103	Meeks,W
Prerequisite: A grade of "C" or better in Aero Eng 2861.	2.0- 2.0	70001	LAB	3A	M	01:00 - 03:00 pm	ARR		Meeks,W
	2.0- 2.0	70002	LAB	3B	M	03:00 - 05:00 pm	ARR		Meeks,W
	2.0- 2.0	72464	LAB	3C	M	05:00 - 07:00 pm	ARR		Meeks,W
	2.0- 2.0	72465	LAB	3D	T	01:00 - 03:00 pm	ARR		Meeks,W
	2.0- 2.0	72466	LAB	3E	T	03:00 - 05:00 pm	ARR		Meeks,W
	2.0- 2.0	72467	LAB	3F	W	01:00 - 03:00 pm	ARR		Meeks,W
	2.0- 2.0	72468	LAB	3G	W	03:00 - 05:00 pm	ARR		Meeks,W
2790 Introduction to Spacecraft Design	2.0- 2.0		LEC	1A	M	12:00 - 12:50 pm	H-SS	000G5	Schmidt,J
Prerequisite: A grade "C" or better in Aero Eng 2861.			Field Trip Required						
	2.0- 2.0	72933	LAB	3A	M	03:00 - 04:50 pm	ARR		Schmidt,J
			Field Trip Required						
	2.0- 2.0	72934	LAB	3B	T	03:00 - 04:50 pm	ARR		Schmidt,J
			Field Trip Required						
	2.0- 2.0	73479	LAB	3C	W	03:00 - 04:50 pm	ARR		Schmidt,J
			Field Trip Required						
	2.0- 2.0	73480	LAB	3D	W	05:00 - 06:50 pm	ARR		Schmidt,J
			Field Trip Required						
2861 Aerospace Vehicle Performance	3.0- 3.0	71321	LEC	1A	MWF	08:00 - 08:50 am	MCNT	00204	Riggins,D
Prerequisite: A grade of "C" or better in each of the following: Math 1215 or Math 1221; Physics 1135 or Physics 1111.									
3002 Cooperative Engineering Training	0.0- 6.0	70003	IND	6A	ARR	ARR	ARR		Isaac,K
3171 Aerodynamics II	3.0- 3.0	70006	LEC	1A	TTh	02:00 - 03:15 pm	BERTELS	00112B	
Prerequisite: "C" or better in Aero Eng 3131 and Mech Eng 2519.			LEC	1A	TTh	02:00 - 03:15 pm	BERTELS	00112A	Hosder,S
3251 Aerospace Structures I	3.0- 3.0	70004	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00204	
Prerequisites: A grade of "C" or better in each of the following: Math 1214 or Math 1208; Math 1215 or Math 1221; Math 2222; Physics 1135 or Physics 1111; Civ Eng 2210.									
3361 Flight Dynamics and Control	3.0- 3.0	70005	LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00112A	DeMars,K
Prerequisites: Aero Eng 3613, Aero Eng 3131, and accompanied or preceded by Aero Eng 2780.			LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00112B	
4000 Special Problems	0.0- 6.0	70010	IND	6A	ARR	ARR	ARR		Dharani,L
	0.0- 6.0	70011	IND	6B	ARR	ARR	ARR		Pernicka,H
	0.0- 6.0	70012	IND	6C	ARR	ARR	ARR		Riggins,D
4099 Undergraduate Research	0.0- 6.0	70016	IND	6A	ARR	ARR	ARR		Balakrishnan,S

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	0.0- 6.0	70017	IND	6B	ARR	ARR	ARR		Carroll,D
	0.0- 6.0	70018	IND	6C	ARR	ARR	ARR		DeMars,K
	0.0- 6.0	71314	IND	6D	ARR	ARR	ARR		Dharani,L
	0.0- 6.0	70019	IND	6E	ARR	ARR	ARR		Hosder,S
	0.0- 6.0	70020	IND	6F	ARR	ARR	ARR		Isaac,K
	0.0- 6.0	70021	IND	6G	ARR	ARR	ARR		Pernicka,H
	0.0- 6.0	70022	IND	6H	ARR	ARR	ARR		Riggins,D
	0.0- 6.0	73559	IND	6J	ARR	ARR	ARR		Han,D
	0.0- 6.0	73565	IND	6K	ARR	ARR	ARR		Wang,C
4781	3.0- 3.0	70007	LAB	3A	MWF	03:00 - 04:50 pm	TMH	00295	Meeks,W
	Prerequisite: Aero Eng 4780.								
4791	3.0- 3.0	70015	LAB	3A	TTh	03:30 - 04:45 pm	TMH	00315	Pernicka,H
	Prerequisites: Aero Eng 4790 for Aero Eng majors; consent of instructor for non-Aero Eng majors.								
4882	2.0- 2.0	70008	LAB	3A	T	08:00 - 08:50 am	BERTELS	00112A	
			LAB	3A	T	08:00 - 08:50 am	BERTELS	00112B	
			LAB	3A	M	10:30 - 12:00 pm	ARR		Vuruskan,A
	2.0- 2.0	70009	LAB	3B	T	08:00 - 08:50 am	BERTELS	00112B	
			LAB	3B	T	08:00 - 08:50 am	BERTELS	00112A	
			LAB	3B	M	01:00 - 02:30 pm	ARR		Vuruskan,A
	2.0- 2.0	71365	LAB	3C	T	08:00 - 08:50 am	BERTELS	00112A	
			LAB	3C	T	08:00 - 08:50 am	BERTELS	00112B	
			LAB	3C	M	02:30 - 04:00 pm	ARR		Vuruskan,A
	2.0- 2.0	71366	LAB	3D	T	08:00 - 08:50 am	BERTELS	00112B	
			LAB	3D	T	08:00 - 08:50 am	BERTELS	00112A	
			LAB	3D	T	03:30 - 05:00 pm	ARR		Vuruskan,A
	2.0- 2.0	72002	LAB	3E	T	08:00 - 08:50 am	BERTELS	00112A	
			LAB	3E	T	08:00 - 08:50 am	BERTELS	00112B	
			LAB	3E	W	10:30 - 12:00 pm	ARR		Vuruskan,A
	2.0- 2.0	72003	LAB	3F	T	08:00 - 08:50 am	BERTELS	00112A	
			LAB	3F	T	08:00 - 08:50 am	BERTELS	00112B	
			LAB	3F	W	01:00 - 02:30 pm	ARR		Vuruskan,A
	2.0- 2.0	72004	LAB	3G	T	08:00 - 08:50 am	BERTELS	00112B	
			LAB	3G	T	08:00 - 08:50 am	BERTELS	00112A	
			LAB	3G	W	02:30 - 04:00 pm	ARR		Vuruskan,A
	2.0- 2.0	72005	LAB	3H	T	08:00 - 08:50 am	BERTELS	00112A	
			LAB	3H	T	08:00 - 08:50 am	BERTELS	00112B	
			LAB	3H	Th	03:30 - 05:00 pm	ARR		Vuruskan,A
4885	1.0- 1.0	72308	LEC	1A	W	02:00 - 02:50 pm	BCH	00120	Isaac,K
	Prerequisites: Aero Eng 3171, Aero Eng 3361, Aero Eng 4535, Aero Eng 4253.								
5000	0.0- 6.0	71445	IND	6A	ARR	ARR	ARR		Isaac,K
5234	3.0- 3.0	73221	LEC	1A	W	04:00 - 06:30 pm	BERTELS	00B12B	Birman,V
	Prerequisites: Civ Eng 2210; Math 3304; and Mech Eng 2350 or Mech Eng 2360 or Aero Eng 2360. (Co-listed with Mech Eng 5234)								
5236	3.0- 3.0	70014	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00213	Dharani,L
	Prerequisite: Civ Eng 2210. (Co-listed with Mech Eng 5236)								
5282	3.0- 3.0	71000	LEC	1A	TTh	09:30 - 10:45 am	BCH	00213	Chandrashekhara,K
	Prerequisite: Civ Eng 2210. (Co-listed with Mech Eng 5282)								
5353	3.0- 3.0	72760	LEC	1A	Th	04:00 - 06:30 pm	EECH	00239	Pitt,D
	Prerequisites: Aero Eng 3251 and 3171.								
5478	3.0- 3.0		LEC	1A	MWF	10:00 - 10:50 am	BCH	00213	Krishnamurthy,K
	Prerequisite: Mech Eng 4479 or equivalent. (Co-listed with Mech Eng 5478, Elec Eng 5870 and Comp Eng 5820)								
	3.0- 3.0	73467	LAB	3A	ARR	ARR	ARR		Krishnamurthy,K
	Additional lab meeting times to be arranged.								
	Prerequisite								
5519	3.0- 3.0	72572	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00254	Pan,H
	Prerequisite: Mech Eng 2519. (Co-listed with Mech Eng 5519)								

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5535 Aerospace Propulsion Systems Prerequisite: Aero Eng 4535.	3.0- 3.0	70013	LEC	1A	MWF	09:00 - 09:50 am	TMH	00249	Riggins,D
5760 Probabilistic Engineering Design Prerequisite: Mech Eng 3708 or Aero Eng 3361. (Co-listed with Mech Eng 5760)	3.0- 3.0	71277	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00249	Du,X
5830 Applied Computational Methods Prerequisite: Comp Sci 1570 or 1970 or 1981; Math 3304. (Co-listed with Mech Eng 5830)	3.0- 3.0	71669	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00121	Hosder,S
6001 Special Topics Prerequisites: Mech Eng 5131 or Aero Eng 5131; Mech Eng 5139 or Aero eng 5139	3.0- 3.0	73505	LEC	1A	MWF	09:00 - 09:50 am	LIB	000G14	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	70035	IND	6A	ARR	ARR	ARR		
6099 Research	0.0-15.0	70024	IND	6A	ARR	ARR	ARR		Balakrishnan,S
	0.0-15.0	70025	IND	6B	ARR	ARR	ARR		Birman,V
	0.0-15.0	71612	IND	6C	ARR	ARR	ARR		Chandrashekhara,K
	0.0-15.0	70026	IND	6D	ARR	ARR	ARR		DeMars,K
	0.0-15.0	70027	IND	6E	ARR	ARR	ARR		Dharani,L
	0.0-15.0	70028	IND	6F	ARR	ARR	ARR		Duan,L
	0.0-15.0	70029	IND	6G	ARR	ARR	ARR		Eversman,W
	0.0-15.0	70030	IND	6H	ARR	ARR	ARR		Han,D
	0.0-15.0	70031	IND	6J	ARR	ARR	ARR		Hosder,S
	0.0-15.0	70032	IND	6K	ARR	ARR	ARR		Isaac,K
	0.0-15.0	70033	IND	6L	ARR	ARR	ARR		Krishnamurthy,K
	0.0-15.0	70034	IND	6M	ARR	ARR	ARR		Pernicka,H
	0.0-15.0	73037	IND	6N	ARR	ARR	ARR		Riggins,D
6123 Viscous Fluid Flow Prerequisite: Mech Eng 5131 or Aero Eng 5131 or Mech Eng 5139 or Aero Eng 5139 or equivalent. (Co-listed with Mech Eng 6123)	3.0- 3.0	71785	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00121	Isaac,K
6212 Advanced Finite Element Analysis Prerequisite: Mech Eng 5212 or Aero Eng 5212. (Co-listed with Mech Eng 6212)	3.0- 3.0	70023	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00260	Chandrashekhara,K
6307 Advanced Vibrations Prerequisite: Mech Eng or Aero Eng 5307. (Co-listed with Mech Eng 6307)	3.0- 3.0	72786	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00204	Stutts,D
6458 Adaptive Dynamic Programming Prerequisites: Elec Eng 5370 or Comp Eng 5310. (Co-listed with Comp Eng 6320, Elec Eng 6360, Mech Eng 6458 and Sys Eng 6215)	3.0- 3.0	73276	LEC	1A	T	07:00 - 09:30 pm	EECH	00103	Wunsch,D
6481 Advanced Topics in Decision and Control Prerequisites: Aero Eng 5481 or Mech Eng 5481 or equivalent. (Co-listed with Mech Eng 6481)	3.0- 3.0	72925	LEC	1A	TTh	09:30 - 10:45 am	TMH	00260	Balakrishnan,S
6527 Heat Transfer by Convection Prerequisite: Mech Eng 5525 or Aero Eng 5525. (Co-listed with Mech Eng 6527)	3.0- 3.0	71743	LEC	1A	CANCELLED				
6614 Advanced Astrodynamics Prerequisite: Aero Eng 5614.	3.0- 3.0	73481	LEC	1A	TTh	12:30 - 01:45 pm	H-SS	000G9	Pernicka,H

Architectural Engineering

2003 Engineering Communications and Computations (Co-listed with Civ Eng 2003)	3.0- 3.0		LEC	1A	TTh	08:00 - 09:15 am	BCH	00125	Pickerill,H
			See 'Notes'-Additional Meeting						
	3.0- 3.0	70056	LAB	3A	Th	02:00 - 03:50 pm	BCH	00115	
	3.0- 3.0	71124	LAB	3B	Th	04:00 - 05:50 pm	BCH	00115	
2103 Architectural Materials And Methods Of Construction Prerequisites: Chem 1310, Chem 1319 and Sophomore standing.	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	BCH	00318	Gillis,W
	3.0- 3.0	71460	LAB	3A	T	06:00 - 08:00 pm	BCH	00110	Gillis,W
	3.0- 3.0	71755	LAB	3B	W	06:00 - 08:00 pm	BCH	00110	Gillis,W
3201 Structural Analysis I	3.0- 3.0		LEC	1A	TTh	09:30 - 10:20 am	BCH	00318	Abdulazeez,M

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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	70048	LAB	3A	Th	12:30 - 03:15 pm	BCH	00318	
	3.0- 3.0		LEC	1A	MW	12:00 - 12:50 pm	BERTELS	00112B	
			LEC	1A	MW	12:00 - 12:50 pm	BERTELS	00112A	Yan,G
	3.0- 3.0	70050	LAB	3A	F	01:00 - 03:50 pm	H-SS	000G5	Yan,G
3220 Reinforced Concrete Design Prerequisite: Arch Eng 3201 with grade of "C" or better. (Co-listed with Civ Eng 3220)	3.0- 3.0		LEC	1A	MW	10:00 - 10:50 am	BCH	00318	Sneed,L
	3.0- 3.0	70052	LAB	3A	Th	02:00 - 04:50 pm	BCH	00315	Sneed,L
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	71009	LEC	1A	M	01:00 - 03:50 pm	BCH	00120	Showalter,W
4099 Undergraduate Research	0.0- 6.0	70054	IND	6A	ARR	ARR	ARR		Baur,S
	0.0- 6.0	71283	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	70053	LEC	1A	TTh	08:00 - 09:15 am	BCH	00120	Showalter,W
4800 Principles of HVAC I Prerequisites: Mech Eng 3521 and accompanied or preceded by Mech Eng 3525; or Mech Eng 2527 and Civ Eng 3330. (Co-listed with Mech Eng 5571)	3.0- 3.0	72551	LEC	1A	MWF	08:00 - 08:50 am	BCH	00121	Gillis,W
4820 Building Lighting Systems Prerequisites: Arch Eng 3803 and Arch Eng 3804.	3.0- 3.0	70046	LEC	1A	MWF	09:00 - 09:50 am	BCH	00121	Baur,S
5000 Special Problems	0.0- 6.0	71049	IND	6A	MWF	12:00 - 12:50 pm	ARR		Baur,S
	0.0- 6.0	71282	IND	6B	ARR	ARR	ARR		Myers,J
5442 Construction Planning and Scheduling Strategies Prerequisite: Civ Eng or Arch Eng 4448. (Co-listed with Civ Eng 5442)	3.0- 3.0	71414	LEC	1A	M	04:00 - 06:30 pm	IDE	00105	Bodapati,S
5446 Management Of Construction Costs Prerequisite: Arch Eng 4448 with a grade of "C" or better. (Co-listed with Civ Eng 5446)	3.0- 3.0	72908	LEC	1A	MWF	10:00 - 10:50 am	BCH	00316	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	71569	LEC	1A	MWF	09:00 - 09:50 am	TMH	00260	Scott-Showalter,P
5449 Engineering and Construction Contract Specifications Prerequisite: Arch Eng 4448 with a grade of "C" or better. (Co-listed with Civ Eng 5449)	3.0- 3.0	71874	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00215	El-adaway,I

Art

1120 Drawing I	3.0- 3.0	70058	LEC	1A	T	04:00 - 06:45 pm	CH	00213	Baird,M
			MOTR PERF 105D: Studio Art-Drawing						
1140 Painting I	3.0- 3.0	70059	LEC	1A	W	04:45 - 07:30 pm	CH	00213	Shoemaker,C
1164 Sculpture	3.0- 3.0	72102	LEC	1A	TTh	02:00 - 03:15 pm	CH	00213	Baird,M
1180 Art Appreciation	3.0- 3.0	70060	LEC	1A	MWF	11:00 - 11:50 am	NOR	00208	Baird,M
			MOTR ARTS 100: Art Appreciation						
	3.0- 3.0	70061	LEC	1B	TTh	09:30 - 10:45 am	NOR	00208	Baird,M
			MOTR ARTS 100: Art Appreciation						
	3.0- 3.0	71148	LEC	1C	MWF	03:00 - 03:50 pm	NOR	00208	Baird,M
			MOTR ARTS 100: Art Appreciation						
1185 Study Of Film	3.0- 3.0		LEC	1A	T	09:30 - 10:45 am	CASTL	00138	Tohline,A
			Communication Emphasized						
	3.0- 3.0		LEC	1B	T	11:00 - 12:15 pm	CASTL	00138	Tohline,A
			Communication Emphasized						
	3.0- 3.0	70062	LAB	3A	T	07:00 - 10:10 pm	CASTL	00138	Tohline,A
	3.0- 3.0	71769	LAB	3B	T	07:00 - 10:10 pm	CASTL	00138	Tohline,A
			Communication Emphasized						

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3000 Special Problems	0.0- 6.0	73568	IND	6A	ARR	ARR	ARR		Tohline,A
3001 Special Topics Prerequisites: Art 1185 or a studio art course (such as Drawing, Painting, or Photography)	3.0- 3.0	73557	LEC	1A	TTh	03:30 - 04:45 pm	H-SS	000G8	Tohline,A
									Experimental Film & Video
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	72977	LAB	3A	Th	12:30 - 01:45 pm	CH	00213	Myers,L
3203 Architectural Design I Prerequisite: Sophomore standing.	3.0- 3.0		LEC	1A	T	02:00 - 02:50 pm	BCH	00120	Baur,S
	3.0- 3.0	71789	LAB	3A	MW	03:00 - 05:50 pm	BCH	0320	Baur,S
	3.0- 3.0	71790	LAB	3B	TTh	03:00 - 05:50 pm	BCH	0320	Pickerill,H
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	71402	LEC	1A	W	06:00 - 09:00 pm	CSF	00114	Rupert,B
	3.0- 3.0	71988	LEC	1B	Th	06:00 - 09:00 pm	CSF	00114	Rupert,B
	3.0- 3.0	72889	LEC	1C		CANCELLED			
3260 Exploring Digital Art	3.0- 3.0		LEC	1A	W	04:00 - 05:30 pm	CS	00206	Myers,L
	3.0- 3.0	72233	LAB	3A	W	05:30 - 06:30 pm	CS	00206	Myers,L

Art

3500 **Innovation Through Design Thinking** 3.0- 3.0 72888 LAB 3A M 04:00 - 06:30 pm CH 00213 Myers,L

Arts, Languages & Philosophy

1001 **Special Topics** 5.0- 5.0 73397 LEC 1A ARR ARR ARR ARR Ivliyeva,I
Chinese II
UM Shared Course-Secondary

4397 **Multidisciplinary Studies Capstone** 3.0- 3.0 71940 LEC 1A ARR ARR ARR ARR Haynes,W
Prerequisite: Senior status.

Biological Sciences

1113 **General Biology** 3.0- 3.0 70089 LEC 1A MWF 09:00 - 09:50 am BERTELS 00112A
Prerequisite: Entrance requirements.
MOTR BIOL 100: Essentials in Biology
MOTR BIOL 100L: Essentials in Biology with Lab

1173 **Introduction to Environmental Sciences** 3.0- 3.0 72667 LEC 1A TTh 02:00 - 03:15 pm IDE 00202 Niyogi,D
MOTR BIOL 100: Essentials in Biology

1219 **General Biology Lab** 2.0- 2.0 LEC 1A M 02:00 - 02:50 pm SHNK 00111
Prerequisite: Preceded or accompanied by either Bio Sci 1113 or Bio Sci 1213.
MOTR BIOL 100L: Essentials in Biology with Lab
MOTR BIOL 150L: Biology with Lab

2.0- 2.0 LEC 1B M 06:00 - 06:50 pm SHNK 00111
MOTR BIOL 100L: Essentials in Biology with Lab
MOTR BIOL 150L: Biology with Lab

2.0- 2.0 LEC 1C F 02:00 - 02:50 pm SHNK 00111
MOTR BIOL 100L: Essentials in Biology with Lab
MOTR BIOL 150L: Biology with Lab
Prerequisite

2.0- 2.0 70091 LAB 3A M 03:00 - 04:50 pm SHNK 00111
MOTR BIOL 100L: Essentials in Biology with Lab
MOTR BIOL 150L: Biology with Lab

2.0- 2.0 71709 LAB 3B M 07:00 - 08:50 pm SHNK 00111
MOTR BIOL 100L: Essentials in Biology with Lab
MOTR BIOL 150L: Biology with Lab

2.0- 2.0 73541 LAB 3C F 03:00 - 04:50 pm SHNK 00111
MOTR BIOL 100L: Essentials in Biology with Lab
MOTR BIOL 150L: Biology with Lab
Prerequisite

1223 **Biodiversity** 3.0- 3.0 71981 LEC 1A TTh 11:00 - 12:15 pm BCH 00120 Wilson,T

1229 **Biodiversity Lab** 1.0- 1.0 71279 LAB 3A T 02:00 - 04:50 pm SHNK 00111 Wilson,T
Prerequisite: Preceded or accompanied by Biodiversity (Bio Sci 1223)
1.0- 1.0 72668 LAB 3B T 06:00 - 08:50 pm SHNK 00111 Wilson,T
1.0- 1.0 71406 LAB 3C W 02:00 - 04:50 pm SHNK 00111 Wilson,T

2213 **Cell Biology** 3.0- 3.0 71169 LEC 1A MWF 11:00 - 11:50 am CS 00207 Shannon,K
Prerequisites: Preceded or accompanied by CHEM 1320.
Communication Emphasized

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2219 Cell Biology Laboratory Prerequisite: Preceded or accompanied by Bio Sci 2213.	1.0- 1.0	71710	LAB	3A	Th	02:00 - 03:50 pm	SHNK	00111	Wilson,T
			Bio Sci Majors Only						
2223 General Genetics Prerequisite: Bio Sci 1113 or 1213.	1.0- 1.0	71754	LAB	3B	Th	06:00 - 07:50 pm	SHNK	00111	Wilson,T
	3.0- 3.0	72244	LEC	1A	MWF	11:00 - 11:50 am	MCNT	00216	Frank,R
2243 Sleep: Function and Dysfunction Prerequisite: Bio Sci 1113 or Bio Sci 1213.	3.0- 3.0	72337	LEC	1A	MWF	12:00 - 12:50 pm	EMGT	00106	Thimgan,M
2263 Ecology	3.0- 3.0	72605	LEC	1A	TTh	12:30 - 01:45 pm	IDE	00202	Niyogi,D
2383 Plant Biology Prerequisite: Bio Sci 1113 or Bio Sci 1213.	3.0- 3.0	72245	LEC	1A	MWF	10:00 - 10:50 am	NOR	00208	Frank,R
3000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	71038	IND	6A	ARR	ARR	ARR		Duvernell,D
	0.0- 6.0	70093	IND	6B	ARR	ARR	ARR		Frank,R
	0.0- 6.0	71110	IND	6C	ARR	ARR	ARR		Hou,C
	0.0- 6.0	70094	IND	6D	ARR	ARR	ARR		Huang,Y
	0.0- 6.0	70095	IND	6E	ARR	ARR	ARR		Mormile,M
	0.0- 6.0	70096	IND	6F	ARR	ARR	ARR		Niyogi,D
	0.0- 6.0	70097	IND	6G	ARR	ARR	ARR		Semon,J
	0.0- 6.0	70098	IND	6H	ARR	ARR	ARR		Shannon,K
	0.0- 6.0	71640	IND	6J	ARR	ARR	ARR		Thimgan,M
	0.0- 6.0	72839	IND	6K	ARR	ARR	ARR		Verble,R
	0.0- 6.0	73398	IND	6L	ARR	ARR	ARR		Westenberg,D
3001 Special Topics Prerequisites: Bio Sci 1113 or Bio Sci 1223.	3.0- 3.0	73494	LEC	1A	TTh	09:30 - 10:45 am	TMH	00249	Hou,C
			Ecophysiology						
3110 Introduction to Biomedical Engineering Prerequisite: Junior standing or above. (Co-listed with Cer Eng 3110 and Chem Eng 3210)	3.0- 3.0	72630	LEC	1A	MWF	01:00 - 01:50 pm	EECH	00104	
3233 Evolution	3.0- 3.0	72669	LEC	1A	MWF	10:00 - 10:50 am	BCH	00315	Duvernell,D
3313 Microbiology Prerequisite: Chem 1320.	3.0- 3.0	70092	LEC	1A	MWF	09:00 - 09:50 am	BCH	00315	Westenberg,D
3319 Microbiology Lab Prerequisite: Preceded or accompanied by Bio Sci 3313.	2.0- 2.0	71294	LAB	3A	TTh	11:00 - 01:00 pm	SHNK	000G7	Westenberg,D
	2.0- 2.0	71111	LAB	3B	TTh	02:00 - 03:50 pm	SHNK	000G7	Westenberg,D
	2.0- 2.0	72985	LAB	3C	TTh	05:00 - 07:00 pm	SHNK	000G7	Westenberg,D
3343 Human Anatomy and Physiology II Prerequisites: BIO SCI 1113 or BIO SCI 1213; BIO SCI 2213.	3.0- 3.0	71638	LEC	1A	MWF	01:00 - 01:50 pm	CH	00104	Hou,C
3349 Human Anatomy and Physiology II Laboratory Prerequisite: Preceded or accompanied by Bio Sci 3343.	1.0- 1.0	71639	LAB	3A	W	02:00 - 02:50 pm	SHNK	00313	Havens,S
	1.0- 1.0	71692	LAB	3B	W	05:00 - 05:50 pm	SHNK	00313	Havens,S
4099 Undergraduate Research Prerequisite: Consent of instructor.	1.0- 3.0	71101	IND	6A	ARR	ARR	ARR		Duvernell,D
	1.0- 3.0	71102	IND	6B	ARR	ARR	ARR		Frank,R
	1.0- 3.0	71103	IND	6C	ARR	ARR	ARR		Hou,C
	1.0- 3.0	71104	IND	6D	ARR	ARR	ARR		Huang,Y
	1.0- 3.0	71105	IND	6E	ARR	ARR	ARR		Mormile,M
	1.0- 3.0	71106	IND	6F	ARR	ARR	ARR		Niyogi,D
	1.0- 3.0	71107	IND	6G	ARR	ARR	ARR		Semon,J
	1.0- 3.0	71108	IND	6H	ARR	ARR	ARR		Shannon,K
	1.0- 3.0	71641	IND	6J	ARR	ARR	ARR		Thimgan,M
	1.0- 3.0	72840	IND	6K	ARR	ARR	ARR		Verble,R
	1.0- 3.0	73399	IND	6L	ARR	ARR	ARR		Westenberg,D
4383 Toxicology Prerequisites: Bio Sci 2213, Bio Sci 2223, at least Junior standing.	3.0- 3.0	71858	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00295	Huang,Y
4423 Introduction to Astrobiology Prerequisites: Bio Sci 2213 or Bio Sci 3313.	3.0- 3.0	73496	LEC	1A	MWF	09:00 - 09:50 am	SHNK	00305	Mormile,M
4666 Nanobiotechnology Prerequisite: Bio Sci 2213 or Bio Sci 2223.	3.0- 3.0	72558	LEC	1A	TTh	09:30 - 10:45 am	H-SS	00103	Huang,Y
5000 Special Problems Prerequisite: Consent of the instructor.	0.0- 6.0	71093	IND	6A	ARR	ARR	ARR		Duvernell,D
	0.0- 6.0	71094	IND	6B	ARR	ARR	ARR		Frank,R
	0.0- 6.0	71095	IND	6C	ARR	ARR	ARR		Hou,C

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	0.0- 6.0	71096	IND	6D	ARR	ARR	ARR		Huang,Y	
	0.0- 6.0	71097	IND	6E	ARR	ARR	ARR		Mormile,M	
	0.0- 6.0	71098	IND	6F	ARR	ARR	ARR		Niyogi,D	
	0.0- 6.0	71099	IND	6G	ARR	ARR	ARR		Semon,J	
	0.0- 6.0	71100	IND	6H	ARR	ARR	ARR		Shannon,K	
	0.0- 6.0	71642	IND	6J	ARR	ARR	ARR		Thimgan,M	
	0.0- 6.0	72841	IND	6K	ARR	ARR	ARR		Verble,R	
	0.0- 6.0	73400	IND	6L	ARR	ARR	ARR		Westenberg,D	
5010	Graduate Seminar	0.0- 6.0	70099	RSD	2A	ARR	ARR			
5040	Oral Examination	0.0- 0.0	71301	IND	6A	ARR	ARR		Duvernell,D	
5099	Graduate Research	0.0-15.0	71039	IND	6A	ARR	ARR		Duvernell,D	
		0.0-15.0	70980	IND	6B	ARR	ARR		Frank,R	
		0.0-15.0	71109	IND	6C	ARR	ARR		Hou,C	
		0.0-15.0	71092	IND	6D	ARR	ARR		Huang,Y	
		0.0-15.0	70100	IND	6E	ARR	ARR		Mormile,M	
		0.0-15.0	70101	IND	6F	ARR	ARR		Niyogi,D	
		0.0-15.0	70102	IND	6G	ARR	ARR		Semon,J	
		0.0-15.0	70103	IND	6H	ARR	ARR		Shannon,K	
		0.0-15.0	71643	IND	6J	ARR	ARR		Thimgan,M	
		0.0-15.0	72842	IND	6K	ARR	ARR		Verble,R	
		0.0-15.0	73401	IND	6L	ARR	ARR		Westenberg,D	
5240	Tissue Engineering I Prerequisite: Senior standing. (Co-listed with MS&E 5210)	3.0- 3.0	71859	LEC	1A	TTh	09:30 - 10:45 am	CH	00103	Semon,J
5323	Bioinformatics Prerequisites: A grade of "C" or better in both one of Bio Sci 1113 or Bio Sci 1213 and one of Comp Sci 1570 and Comp Sci 1580 or Comp Sci 1971 and Comp Sci 1981. (Co-listed with COMP SCI 5700)	3.0- 3.0	72940	LEC	1A	MWF	02:00 - 02:50 pm	BCH	00313	Taylor,P
5353	Developmental Biology Prerequisite: Bio Sci 2213.	3.0- 3.0	73219	LEC	1A	TTh	12:30 - 01:45 pm	CH	00104	Shannon,K
5433	Neurobiology Prerequisite: Bio Sci 2213.	3.0- 3.0	72670	LEC	1A	TTh	11:00 - 12:15 pm	IDE	00202	Thimgan,M
6202	Problems In Applied And Environmental Biology Prerequisite: Acceptance to Graduate Program.	0.0- 3.0	72843	LEC	1A	ARR	ARR	ARR		Frank,R
6223	Research Proposal Writing Prerequisites: Graduate standing	3.0- 3.0	73560	LEC	1A	ARR	ARR	ARR		Shannon,K
6240	Tissue Engineering II Prerequisite: Graduate standing. (Co-listed with MS&E 6210)	3.0- 3.0	71862	LEC	1A	TTh	09:30 - 10:45 am	CH	00103	Semon,J
6273	Techniques In Applied And Environmental Biology Prerequisite: Graduate standing.	3.0- 3.0	71170	LEC	1A	ARR	ARR	ARR		Huang,Y
6383	Advanced Toxicology Prerequisites: Bio Sci 2213 and Bio Sci 2223.	3.0- 3.0	71860	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00295	Huang,Y
6423	Astrobiology Prerequisite: Graduate standing.	3.0- 3.0	73497	LEC	1A	MWF	09:00 - 09:50 am	SHNK	00305	Mormile,M
6666	Advanced Nanotechnology in Biomedicine Prerequisites: Bio Sci 2213 and Bio Sci 2223 and graduate standing.	3.0- 3.0	72559	LEC	1A	TTh	09:30 - 10:45 am	H-SS	00103	Huang,Y
Business										
1110	Introduction to Management and Entrepreneurship	3.0- 3.0	70104	LEC	1A	TTh	09:30 - 10:45 am	TMH	00295	Elrod,C
1210	Financial Accounting	3.0- 3.0	71533	LEC	1A	MWF	11:00 - 11:50 am	BCH	00315	Chiu,Y
3220	Managerial Accounting Prerequisites: Bus 1210 or Eng Mgt 2211.	3.0- 3.0	72227	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00216	Eng,L
4000	Special Problems	0.0- 6.0	71404	IND	6A	ARR	ARR	ARR		Elrod,C
4099	Undergraduate Research	0.0- 6.0	71059	IND	6A	ARR	ARR	ARR		Lea,B
4675	International Business	3.0- 3.0	71632	LEC	1A	MWF	01:00 - 01:50 pm	FUL	00107A	Stanley,S

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5000 Special Problems Prerequisite: Admission to the MBA program.	0.0- 6.0	71206	IND	6A	ARR	ARR	ARR		Elrod,C
	0.0- 6.0	71310	IND	6B	ARR	ARR	ARR		Lea,B
	0.0- 6.0	71659	IND	6C	ARR	ARR	ARR		Siau,K
5099 Research	0.0- 9.0	71593	IND	6C	ARR	ARR	ARR		Siau,K
5580 Strategic Management Prerequisites: MKT 3110 or Eng Mgt 3510; Finance 2150 or Eng Mgt 3200; Senior standing.	3.0- 3.0	70105	LEC	1A	W	07:00 - 09:30 pm	CS	00209	Fang,H

Business

5730 Machine Learning and Artificial Intelligence for Business Prerequisites: IS&T 1552 or Comp Sci 1510; or Graduate Standing, understanding of management information systems, programming knowledge.	3.0- 3.0	73153	LEC	1A	T	04:00 - 06:30 pm	FUL	00107A	Flachsbart,B
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Business

5980 Business Models for Entrepreneurship and Innovation Prerequisite: Senior or graduate standing.	3.0- 3.0	71866	LEC	1A	MWF	03:00 - 03:50 pm	FUL	00107A	Fang,H
6224 Managerial Accounting and Control Prerequisite: Graduate standing.	3.0- 3.0	71280	LEC	1A	M	04:00 - 06:30 pm	FUL	00107A	Eng,L
6425 Supply Chain and Project Management Prerequisite: Graduate standing.	3.0- 3.0	71281	LEC	1A	TTh	11:00 - 12:15 pm	FUL	00107A	Elrod,C
6675 Advanced International Business Prerequisites: MKT 3110 or MKT 5105 or Eng Mgt 3510.	3.0- 3.0	72129	LEC	1A	MWF	01:00 - 01:50 pm	FUL	00107A	Stanley,S
6723 Artificial Intelligence, Robotics, and Information Systems Management Prerequisite: Graduate standing.	3.0- 3.0	71534	LEC	1A	Th	07:00 - 09:30 pm	FUL	00107A	Siau,K

Ceramic Engineering

2002 Cooperative Training	1.0- 3.0	70107	IND	6A	ARR	ARR	ARR		Schwartz,R
2120 Introduction To Glass Science And Technology Prerequisite: "C" or better grade in Cer Eng 2110.	3.0- 3.0	70106	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00211	Brow,R
2210 Ceramics In The Modern World	2.0- 2.0	70988	LEC	1A	F	01:00 - 02:40 pm	MCNT	00212	Hilmas,G
2325 Ceramic Materials Laboratory II Glass And Ceramic Processing Prerequisite: "C" or better grade in Cer Eng 2315.	2.0- 2.0	70989	LAB	3A	M	01:00 - 04:50 pm	MCNT	00212	Ohara,K
	2.0- 2.0	71888	LAB	3B	M	01:00 - 04:50 pm	MCNT	00212	Brow,R
	2.0- 2.0	73375	LAB	3C	M	01:00 - 04:50 pm	MCNT	00212	Watts,J
3110 Introduction to Biomedical Engineering Prerequisites: Junior standing or above.	3.0- 3.0	72320	LEC	1A	MWF	01:00 - 01:50 pm	EECH	00104	
3230 Thermodynamics of Materials Prerequisite: "C" or better grade in either Met Eng 1210 or Chem 1320.	3.0- 3.0	70110	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00212	Kumar,A
3240 Applied Glass Forming Prerequisites: A grade of "C" or better in Cer Eng 2210.	2.0- 2.0		LEC	1A	T	12:00 - 12:50 pm	MCNT	00210	Reidmeyer,M
	2.0- 2.0	73570	LAB	3A	M	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
	2.0- 2.0	73571	LAB	3B	M	04:00 - 06:00 pm	Glass Shop	000G3	Reidmeyer,M
	2.0- 2.0	73572	LAB	3C	T	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
	2.0- 2.0	73573	LAB	3D	T	04:00 - 06:00 pm	Glass Shop	000G3	Reidmeyer,M
	2.0- 2.0	73574	LAB	3E	W	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
	2.0- 2.0	73575	LAB	3F	W	04:00 - 06:00 pm	Glass Shop	000G3	Reidmeyer,M
	3325 Ceramic Processing Lab II	2.0- 2.0		LEC	1A	ARR	ARR	ARR	

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	2.0- 2.0	70108	LAB	3A	T	01:00 - 04:50 pm	EMGT	00102	Ohara,K	
						Additional meeting time to be arranged.				
	2.0- 2.0	73376	LAB	3B	T	01:00 - 04:50 pm	EMGT	00102	Lipke,D	
			Prerequisite							
	2.0- 2.0	70109	LAB	3C	T	01:00 - 04:50 pm	EMGT	00102	Fahrenheitz,W	
						Additional meeting time to be arranged.				
3410	Characterization Of Inorganic Solids	3.0- 3.0	71251	LEC	1A	MWF	12:00 - 12:50 pm	MCNT	00211	Miller,F
	Prerequisite: "C" or better grade in either Cer Eng 2110 or Met Eng 2110 or a similar introductory course on structure of solids									
4000	Special Problems	0.0- 6.0	70112	IND	6A	ARR	ARR	ARR		Brow,R
		0.0- 6.0	70113	IND	6B	ARR	ARR	ARR		Day,D
		0.0- 6.0	70114	IND	6C	ARR	ARR	ARR		Dogan,F
		0.0- 6.0	70115	IND	6D	ARR	ARR	ARR		Fahrenheitz,W
		0.0- 6.0	70116	IND	6E	ARR	ARR	ARR		Hilmas,G
		0.0- 6.0	70117	IND	6F	ARR	ARR	ARR		Huebner,W
		0.0- 6.0	70118	IND	6G	ARR	ARR	ARR		Reidmeyer,M
		0.0- 6.0	70119	IND	6H	ARR	ARR	ARR		Schwartz,R
		0.0- 6.0	73372	IND	6J	ARR	ARR	ARR		Smith,J
4097	Materials Senior Design II	3.0- 3.0	70111	LAB	3A	MWF	11:00 - 11:50 am	MCNT	00212	Schlesinger,M
	Prerequisite: "C" or better in either Cer Eng 4096 or Met Eng 4096. (Co-listed with Met Eng 4097)									
4099	Undergraduate Research	0.0- 6.0	70120	IND	6A	ARR	ARR	ARR		Brow,R
		0.0- 6.0	70121	IND	6B	ARR	ARR	ARR		Day,D
		0.0- 6.0	70122	IND	6C	ARR	ARR	ARR		Dogan,F
		0.0- 6.0	70123	IND	6D	ARR	ARR	ARR		Fahrenheitz,W
		0.0- 6.0	70124	IND	6E	ARR	ARR	ARR		Hilmas,G
		0.0- 6.0	70125	IND	6F	ARR	ARR	ARR		Huebner,W
		0.0- 6.0	70126	IND	6G	ARR	ARR	ARR		Kumar,A
		0.0- 6.0	70127	IND	6H	ARR	ARR	ARR		Smith,J
4220	Mechanical Properties Of Ceramics	3.0- 3.0	71058	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00212	Hilmas,G
	Prerequisite: A grade of "C" or better in Civ Eng 2210.									
4240	Electrical Properties Of Ceramics	3.0- 3.0	71864	LEC	1A	MWF	09:00 - 09:50 am	CS	00207	Huebner,W
	Prerequisite: "C" or better in Physics 2305.									
4410	Introduction to Integrated Computational Materials Engineering	3.0- 3.0		LEC	1A	T	09:30 - 10:45 am	MCNT	00114	Zhou,C
		3.0- 3.0	72804	LAB	3A	Th	09:30 - 10:45 am	MCNutt	234	Zhou,C
	Prerequisites: A grade of "C" or better in both Cer Eng 3220 and Math 3304, and in either Cer Eng 2110 or Met Eng 2110.									
5000	Special Problems	0.0- 6.0	70128	IND	6A	ARR	ARR	ARR		Brow,R
		0.0- 6.0	70129	IND	6B	ARR	ARR	ARR		Reidmeyer,M
		0.0- 6.0	71312	IND	6C	ARR	ARR	ARR		Smith,J
5040	Oral Examination	0.0- 0.0	70131	IND	6A	ARR	ARR	ARR		Moats,M
	Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.									
5250	Refractories	3.0- 3.0	71675	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00210	Smith,J
	Prerequisite: Cer Eng 3230.									
6050	Continuous Registration	1.0- 1.0	70132	IND	6A	ARR	ARR	ARR		Moats,M
	Doctoral students only. Graduate Office permission required.									
6085	Internship	0.0-15.0	70130	IND	6A	ARR	ARR	ARR		
	DE students only.									
6099	Research	0.0-15.0	72352	IND	6A	ARR	ARR	ARR		Bartlett,L
		0.0-15.0	72353	IND	6B	ARR	ARR	ARR		Brow,R
		0.0-15.0	72354	IND	6C	ARR	ARR	ARR		
		0.0-15.0	72355	IND	6D	ARR	ARR	ARR		Dogan,F
		0.0-15.0	72356	IND	6E	ARR	ARR	ARR		Fahrenheitz,W
		0.0-15.0	72357	IND	6F	ARR	ARR	ARR		Hilmas,G
		0.0-15.0	72358	IND	6G	ARR	ARR	ARR		Huebner,W
		0.0-15.0	72531	IND	6H	ARR	ARR	ARR		Kumar,A

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6410 Advanced Integrated Computational Materials Engineering Prerequisite: A grade of "B" or better grade in Math 3304.	0.0-15.0	72532	IND	6J	ARR	ARR	ARR		Lipke,D
	0.0-15.0	72801	IND	6K	ARR	ARR	ARR		Schwartz,R
	0.0-15.0	73373	IND	6L	ARR	ARR	ARR		Smith,J
	0.0-15.0	73583	IND	6M	ARR	ARR	ARR		Watts,J
	3.0- 3.0		LEC	1A	T	09:30 - 10:45 am	MCNT	00114	Zhou,C
	3.0- 3.0	72807	LAB	3A	Th	09:30 - 10:45 am	MCNutt	234	Zhou,C

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.	4.0- 4.0	73336	LEC	1A	MTWTh	11:00 - 11:50 am	BERTELS	00112B	
									Prerequisite
			LEC	1A	MTWTh	11:00 - 11:50 am	BERTELS	00112A	Okoronkwo,M
									Prerequisite
2110 Chemical Engineering Thermodynamics I	3.0- 3.0	72521	LEC	1A	MWF	08:00 - 08:50 am	BERTELS	00B10	Luks,C
2300 Chemical Process Materials Prerequisites: Physics 1135.	1.0- 1.0	73155	LEC	1A	M	03:00 - 03:50 pm	H-SS	000G5	Rezaei,F
2310 Professional Practice And Ethics Prerequisite: At least sophomore standing.	1.0- 1.0	71174	LEC	1A	W	04:00 - 04:50 pm	BERTELS	00B10	Neogi,P
3002 Cooperative Engineering Training	0.0- 6.0	70135	IND	6A	ARR	ARR	ARR		Ludlow,D
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	73341	LEC	1A	TTh	12:30 - 01:45 pm	BERTELS	00112B	
									Prerequisite
			LEC	1A	TTh	12:30 - 01:45 pm	BERTELS	00112A	Rezaei,F
									Prerequisite
			LEC	1A	W	05:00 - 05:50 pm	BERTELS	00112B	
									Prerequisite
			LEC	1A	W	05:00 - 05:50 pm	BERTELS	00112A	
3111 Numerical Computing in Chemical and Biochemical Engineering	3.0- 3.0		LEC	1A	ARR	ARR			Luks,C
									Prerequisite
	3.0- 3.0		LEC	1B	ARR	ARR			Luks,C
									Prerequisite
	3.0- 3.0	73337	LAB	3A	W	02:00 - 03:30 pm	Ctl Lab	124	Luks,C
									A laptop computer running Windows 10 is required for this course. Students need to be proficient in the programming logic learned in their Comp Sci prerequisites before the beginning of this course.
									Prerequisite
	3.0- 3.0	73338	LAB	3B	W	03:30 - 05:00 pm	Ctl Lab	124	Luks,C
									A laptop computer running Windows 10 is required for this course. Students need to be proficient in the programming logic learned in their Comp Sci prerequisites before the beginning of this course.
									Prerequisite
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	71295	LEC	1A	MWF	08:00 - 08:50 am	H-SS	000G5	Park,J
									Chem Eng Majors Only
3130 Staged Mass Transfer Prerequisites: Chem Eng 3120, admitted to Chem Eng program.	3.0- 3.0	70136	LEC	1A	MWF	11:00 - 11:50 am	BERTELS	00B10	Smith,J
3131 Separations in Chemical and Biochemical Engineering Prerequisites: Chem Eng 3101, Chem Eng 3111, and Chem Eng 3120. Admitted to the Chemical Engineering Program.	3.0- 3.0	73345	LEC	1A	MWF	09:00 - 09:50 am	H-SS	000G5	Barua,D
									Prerequisite
3140 Continuous Mass Transfer Prerequisites: Preceded or accompanied by Chem Eng 3130. Chem Eng majors only.	3.0- 3.0	70137	LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00B12A	Neogi,P
									Chem Eng Majors Only
3141 Process Operations in Chemical and Biochemical Engineering Prerequisites: Chem Eng 3101 and Chem Eng 3120. Admitted to the Chemical Engineering Program.	3.0- 3.0	73346	LEC	1A	MWF	01:00 - 01:50 pm	BERTELS	00112A	Liang,X
									Prerequisite
			LEC	1A	MWF	01:00 - 01:50 pm	BERTELS	00112B	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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	71537	LEC	1A	MWF	10:00 - 10:50 am	TMH	00250	Barua,S
3160 Molecular Chemical Engineering Prerequisites: Chem Eng 3120, admitted to Chem Eng program.	3.0- 3.0	70138	LEC	1A	MWF	01:00 - 01:50 pm	EMGT	00102	Wang,J
3210 Introduction to Biomedical Engineering Prerequisite: Junior standing or above. (Co-listed with Cer Eng 3110 and Bio Sci 3110)	3.0- 3.0	72631	LEC	1A	MWF	01:00 - 01:50 pm	EECH	00104	
4000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	70141	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	70142	IND	6B	ARR	ARR	ARR		Barua,D
	0.0- 6.0	70143	IND	6C	ARR	ARR	ARR		Barua,S
	0.0- 6.0	70144	IND	6D	ARR	ARR	ARR		Forciniti,D
	0.0- 6.0	70145	IND	6E	ARR	ARR	ARR		Liang,X
	0.0- 6.0	70146	IND	6F	ARR	ARR	ARR		Ludlow,D
	0.0- 6.0	70147	IND	6G	ARR	ARR	ARR		Luks,C
	0.0- 6.0	70148	IND	6H	ARR	ARR	ARR		Neogi,P
	0.0- 6.0	71468	IND	6J	ARR	ARR	ARR		Park,J
	0.0- 6.0	71650	IND	6K	ARR	ARR	ARR		Rezaei,F
	0.0- 6.0	71731	IND	6L	ARR	ARR	ARR		Rownaghi,A
	0.0- 6.0	71749	IND	6M	ARR	ARR	ARR		Smith,J
	0.0- 6.0	71766	IND	6N	ARR	ARR	ARR		Wang,J
	0.0- 6.0	72091	IND	6P	ARR	ARR	ARR		Westenberg,D
4001 Special Topics Prerequisites: Senior standing and a minimum of two semesters of Spanish.	3.0- 3.0	73495	LEC	1A	MWF	05:00 - 06:00 pm	CSF	00G5D	Forciniti,D
									Renewable Energy
4096 Chemical Engineering Economics Prerequisite: Preceded or accompanied by Chem Eng 3130.	2.0- 2.0	71900	LEC	1A	TTh	12:00 - 12:50 pm	BERTELS	00B12B	Ryan,P
4097 Chemical Process Design II Prerequisites: Chem Eng 3130 and Chem Eng 3150; preceded or accompanied by either Chem Eng 4091 or both Chem Eng 4110 and Chem Eng 4096.	3.0- 3.0		LEC	1A	Th	00:00 - 00:00 am	ARR		Luks,C
	3.0- 3.0	71616	LAB	3A	MWF	11:00 - 12:50 pm	PHYS	00104	Luks,C
									Communication Emphasized
									Communication Emphasized
4099 Undergraduate Research	0.0- 6.0	70151	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	70152	IND	6B	ARR	ARR	ARR		Barua,D
	0.0- 6.0	71063	IND	6C	ARR	ARR	ARR		Barua,S
	0.0- 6.0	71064	IND	6D	ARR	ARR	ARR		Forciniti,D
	0.0- 6.0	70153	IND	6E	ARR	ARR	ARR		Liang,X
	0.0- 6.0	70154	IND	6F	ARR	ARR	ARR		Ludlow,D
	0.0- 6.0	70155	IND	6G	ARR	ARR	ARR		Neogi,P
	0.0- 6.0	70156	IND	6H	ARR	ARR	ARR		Park,J
	0.0- 6.0	70157	IND	6J	ARR	ARR	ARR		Rezaei,F
	0.0- 6.0	70158	IND	6K	ARR	ARR	ARR		Rownaghi,A
	0.0- 6.0	71651	IND	6L	ARR	ARR	ARR		Ryan,P
	0.0- 6.0	71729	IND	6M	ARR	ARR	ARR		Smith,J
	0.0- 6.0	71750	IND	6N	ARR	ARR	ARR		Wang,J
	0.0- 6.0	72092	IND	6P	ARR	ARR	ARR		Westenberg,D
4100 Chemical Engineering Laboratory I Prerequisites: Chem Eng 3100 and Chem Eng 3110.	2.0- 2.0		LEC	1A	Th	01:00 - 01:50 pm	MCNutt	234	Ryan,P
									Available lab block 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	71646	LAB	3A	T	09:00 - 11:50 am	Lab	00124	Ryan,P
									See 'Notes'-Additional Meeting
	2.0- 2.0	72601	LAB	3B	T	02:00 - 04:50 pm	Ctl Lab	124	Ryan,P
	2.0- 2.0	72602	LAB	3C	Th	09:00 - 11:50 am	Lab	00124	Ryan,P
	2.0- 2.0	73434	LAB	3D	Th	02:00 - 04:50 pm	Lab	00124	Ryan,P
									Prerequisite

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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	72094	LEC	1A	MWF	09:00 - 09:50 am	TMH	00295	Ryan,P
4120 Process Dynamics And Control Laboratory Prerequisite: Preceded or accompanied by Chem Eng 4110.	1.0- 1.0	71649	LAB	3A	T	09:00 - 11:50 am	Lab	00124	Ryan,P
			Available lab blocks are 9:00-11:50 am and 2:00-4:50 pm each Tuesday and Thursday. Students will use one lab block each week, but are advised to keep all block times open.						
			See 'Notes'-Additional Meeting						
	1.0- 1.0	72603	LAB	3B	T	02:00 - 04:50 pm	Lab	00124	Ryan,P
			Available lab blocks are 9:00-11:50 am and 2:00-4:50 pm each Tuesday and Thursday. Students will use one lab block each week, but are advised to keep all block times open.						
	1.0- 1.0	73435	LAB	3C	Th	09:00 - 11:50 am	Lab	00124	Ryan,P
			Prerequisite						
	1.0- 1.0	73436	LAB	3D	Th	02:00 - 04:50 pm	Lab	00124	Ryan,P
			Prerequisite						
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	MCNutt	234	
			Available lab blocks are 9:00am-11:50am and 2:00pm-4:50pm each Tuesday and Thursday. Students will need one lab block each week, but are advised to keep all block times open.						
			See 'Notes'-Additional Meeting						
			Communication Emphasized						
	3.0- 3.0	71648	LAB	3A	TTh	09:00 - 11:50 am	Lab	00124	Rownaghi,A
			See 'Notes'-Additional Meeting						
			Communication Emphasized						
	3.0- 3.0	72604	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	73440	LEC	1A	MWF	08:00 - 08:50 am	Lab	00124	Ludlow,D
			Prerequisite						
			LEC	1A	ARR	ARR	ARR		
			Prerequisite						
4210 Biochemical Reactors Prerequisite: Chem Eng 3150 or graduate standing.	3.0- 3.0	70149	LEC	1A	MWF	10:00 - 10:50 am	Bert Conf	110H	Rownaghi,A
4220 Biochemical Reactor Laboratory Prerequisites: Chem Eng 3200 and preceded or accompanied by Chem Eng 4210; or preceded or accompanied by Chem Eng 5250 and Chem Eng 4210.	3.0- 3.0		LEC	1A	T	08:00 - 08:50 am	CH	00105	Rownaghi,A
			Available lab blocks are 9:00-11:50 am and 2:00-4:50 pm each Tuesday and Thursday. Students will use one lab blocks each week, but are advised to keep all block times open.						
			Communication Emphasized						
	3.0- 3.0	70140	LAB	3A	TTh	09:00 - 09:50 am	Lab	00124	Rownaghi,A
			See 'Notes'-Additional Meeting						
			Communication Emphasized						
	3.0- 3.0	73437	LAB	3B	TTh	02:00 - 04:50 pm	Lab	00124	Rownaghi,A
			Communication Emphasized						
			Prerequisite						
4241 Process Safety in the Chemical and Biochemical Industries Prerequisites: Preceded or accompanied by Chem Eng 4210.	3.0- 3.0	73463	LEC	1A	MWF	08:00 - 08:50 am	Lab	00124	Ludlow,D
			Prerequisite						
4320 Corrosion And Its Prevention Prerequisite: "C" or better grade in either Chem 3430 or Cer Eng 3230 . (Co-listed with Met Eng 4230)	3.0- 3.0	71896	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00210	Schlesinger,M
5000 Special Problems	0.0- 6.0	70159	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	71469	IND	6B	ARR	ARR	ARR		Barua,D
	0.0- 6.0	71470	IND	6C	ARR	ARR	ARR		Barua,S

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	0.0- 6.0	71471	IND	6D	ARR	ARR	ARR		Forciniti,D
	0.0- 6.0	71472	IND	6E	ARR	ARR	ARR		Liang,X
	0.0- 6.0	71473	IND	6F	ARR	ARR	ARR		Ludlow,D
	0.0- 6.0	71474	IND	6G	ARR	ARR	ARR		Luks,C
	0.0- 6.0	71475	IND	6H	ARR	ARR	ARR		Neogi,P
	0.0- 6.0	71476	IND	6J	ARR	ARR	ARR		Park,J
	0.0- 6.0	71477	IND	6K	ARR	ARR	ARR		Rezaei,F
	0.0- 6.0	71652	IND	6L	ARR	ARR	ARR		Rownaghi,A
	0.0- 6.0	71751	IND	6M	ARR	ARR	ARR		Smith,J
	0.0- 6.0	71752	IND	6N	ARR	ARR	ARR		Wang,J
	0.0- 6.0	72093	IND	6P	ARR	ARR	ARR		Westenberg,D
5001 Special Topics Prerequisites:Chem 1320; Math 1215 or Math 1221; preceded or accompanied by Physics 1135.	3.0- 3.0	73441	LEC	1A	MWF	04:00 - 04:50 pm	CH	00103	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	70170	IND	6A	ARR	ARR	ARR		
	0.0- 0.0	70171	IND	6B	ARR	ARR	ARR		
5110 Intermediate Chemical Reactor Design Prerequisite: Chem Eng 3150 or graduate standing.	3.0- 3.0	70150	LEC	1A	MWF	03:00 - 03:50 pm	BERTELS	00B12B	Al Dahhan,M
5130 Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing. (Co-listed with Eng Mgt 4312)	3.0- 3.0	71578	LEC	1A	M	07:00 - 09:30 pm	CS	00209	Schmidt,M
5140 Intermediate Chemical Process Safety Prerequisite: Graduate Standing.	3.0- 3.0	73439	LEC	1A	MWF	08:00 - 08:50 am	Lab	00124	Ludlow,D
			LEC	1A	ARR	ARR	ARR		
5190 Plantwide Process Control Prerequisites: Chem Eng 4110 or Elec Eng 3320 or Elec Eng 3340 or graduate standing. (Co-listed with Elec Eng 5350)	3.0- 3.0	71844	LEC	1A	TTh	02:00 - 03:15 pm	EECH	00103	Erickson,K
5210 Intermediate Biochemical Reactors Prerequisite: Preceded or accompanied by Chem Eng 3150 or graduate standing.	3.0- 3.0	72205	LEC	1A	MWF	10:00 - 10:50 am	Bert Conf	110H	Rownaghi,A
5220 Intermediate Engineering Thermodynamics Prerequisites: Senior or graduate standing.	3.0- 3.0	72598	LEC	1A	MWF	11:00 - 11:50 am	BERTELS	00B12A	Wang,J
5250 Isolation and Purification of Biologicals Prerequisites: Chem Eng 3131 and Chem Eng 3141.	3.0- 3.0	73442	LEC	1A	MWF	02:00 - 02:50 pm	BERTELS	00B12B	Forciniti,D
									Prerequisite
6001 Special Topics Adv Pharmaceutical Engineering	3.0- 3.0	73443	LEC	1A	MWF	04:00 - 04:50 pm	CH	00103	Barua,S
6015 Lecture Series Prerequisites: Graduate standing.	1.0- 1.0	72237	LEC	1A	M	04:00 - 05:15 pm	BERTELS	00B10	Neogi,P
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70172	IND	6A	ARR	ARR	ARR		Neogi,P
6085 Internship DE students only.	0.0-15.0	70169	IND	6A	ARR	ARR	ARR		Al Dahhan,M
6099 Research	0.0-15.0	70161	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0-15.0	70162	IND	6B	ARR	ARR	ARR		Barua,D
	0.0-15.0	71065	IND	6C	ARR	ARR	ARR		Barua,S
	0.0-15.0	71066	IND	6D	ARR	ARR	ARR		Forciniti,D
	0.0-15.0	70163	IND	6E	ARR	ARR	ARR		Liang,X
	0.0-15.0	70164	IND	6F	ARR	ARR	ARR		Ludlow,D
	0.0-15.0	70165	IND	6G	ARR	ARR	ARR		Neogi,P
	0.0-15.0	70166	IND	6H	ARR	ARR	ARR		Park,J
	0.0-15.0	70167	IND	6J	ARR	ARR	ARR		Rezaei,F
	0.0-15.0	70168	IND	6K	ARR	ARR	ARR		Rownaghi,A
	0.0-15.0	71653	IND	6L	ARR	ARR	ARR		Smith,J
	0.0-15.0	71730	IND	6M	ARR	ARR	ARR		Wang,J
	0.0-15.0	71753	IND	6N	ARR	ARR	ARR		Westenberg,D
6110 Advanced Transport Phenomena Prerequisite: Chem Eng 5100.	3.0- 3.0	70160	LEC	1A	MWF	02:00 - 02:50 pm	BERTELS	00B12A	Park,J

Chemistry

1100	Introduction To Laboratory Safety & Hazardous Materials	1.0- 1.0	70183	LEC	1A	MTWThF	08:00 - 08:50 am	SHNK	000G3	Whitefield,P	
		1.0- 1.0	72582	LEC	1B	MTWThF	08:00 - 08:50 am	SHNK	000G3	Whitefield,P	
1310	General Chemistry I Prerequisite: Entrance requirements.	4.0- 4.0	70173	LEC	1AA	MW	10:00 - 10:50 am	SHNK	000G3	Winiarz,J	
		4.0- 4.0	71775	LEC	1BB	MW	10:00 - 10:50 am	SHNK	000G3	Winiarz,J	
		4.0- 4.0	72590	LEC	1CC	MW	10:00 - 10:50 am	ARR		Winiarz,J	
		4.0- 4.0	72591	LEC	1DD	MW	10:00 - 10:50 am	ARR		Winiarz,J	
		0.0- 0.0	70174	RSD	2A1	T	08:00 - 09:50 am	CSF	00G5E	Winiarz,J	
		0.0- 0.0	70175	RSD	2A2	T	09:00 - 10:50 am	TMH	00250	Winiarz,J	
		0.0- 0.0	70176	RSD	2A3	T	10:00 - 11:50 am	EECH	00104	Winiarz,J	
		0.0- 0.0	70177	RSD	2A4	T	11:00 - 12:50 pm	CS	00203	Winiarz,J	
		0.0- 0.0	71447	RSD	2A5	T	12:00 - 01:50 pm	EECH	00104	Winiarz,J	
		0.0- 0.0	71448	RSD	2A6	T	01:00 - 02:50 pm	CS	00203	Winiarz,J	
		0.0- 0.0	71449	RSD	2B1	ARR	ARR	ARR		Winiarz,J	
1319		General Chemistry Laboratory Prerequisite: Preceded or accompanied by both Chem 1310 and Chem 1100.	1.0- 1.0	70178	LAB	3A1	T	01:00 - 03:50 pm	SHNK	00201	
			1.0- 1.0	71113	LAB	3B1	T	01:00 - 03:50 pm	SHNK	00201	
			1.0- 1.0	70179	LAB	3C1	W	01:00 - 03:50 pm	SHNK	00201	
			1.0- 1.0	72252	LAB	3D1	W	01:00 - 03:50 pm	SHNK	00201	
	1.0- 1.0		70180	LAB	3E1	Th	01:00 - 03:50 pm	SHNK	00201		
	1.0- 1.0		70181	LAB	3F1	Th	01:00 - 03:50 pm	SHNK	00201		
1320	General Chemistry II Prerequisites: Chem 1310 with a grade of "C" or better and Chem 1319.	3.0- 3.0	70182	LEC	1A	TTh	09:30 - 10:45 am	SHNK	000G3	Stavropoulos,P	
1510	Qualitative Analysis Prerequisite: Preceded or accompanied by both Chem 1320 and Chem 1100.	2.0- 2.0	70184	LAB	3A	TTh	11:30 - 12:20 pm	SHNK	00305	Switzer,J	
		2.0- 2.0	71207	LAB	3B	TTh	11:30 - 12:20 pm	SHNK	00305	Switzer,J	
				LAB	3B	TTh	03:30 - 05:20 pm	SHNK	00212		
2002	Cooperative Work Training	1.0- 3.0	71742	IND	6A	ARR	ARR	ARR		Glaser,R	
2100	Master Student	1.0- 1.0	70185	LEC	1A	W	06:00 - 07:00 pm	CH	00104	Collier,H	
2210	Organic Chemistry I Prerequisites: Chem 1310, 1319, 1320; or Chem 1351.	4.0- 4.0	71372	LEC	1A	TTh	12:30 - 01:45 pm	SHNK	000G3	Sotiriou-Leventis,C	
				LEC	1A	W	01:00 - 01:50 pm	SHNK	000G3		

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
2219 Organic Chemistry I Lab Prerequisites: Preceded or accompanied by Chem 2210 and Chem 1100.	1.0- 1.0	71777	LAB	3A	W	06:00 - 06:50 pm	SHNK	00305	Bone,T	
			LAB	3A	W	07:00 - 08:50 pm	SHNK	00303		
	1.0- 1.0	71800	LAB	3B	Th	06:00 - 06:50 pm	SHNK	00305	Bone,T	
			LAB	3B	Th	07:00 - 08:50 pm	SHNK	00303		
	1.0- 1.0	72850	LAB	3C	M	06:00 - 06:50 pm	SHNK	00305	Bone,T	
			LAB	3C	M	07:00 - 08:50 pm	SHNK	00303		
2220 Organic Chemistry II Prerequisites: Grade of "C" or better in Chem 2210.	4.0- 4.0	70186	LEC	1A	TTh	08:00 - 09:15 am	MCNT	00204	Reddy,V	
			LEC	1A	W	01:00 - 01:50 pm	MCNT	00204		
	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	70187	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		71143	LAB	3B	Th	02:00 - 02:50 pm	SHNK	00305	Bone,T	
			Communication Emphasized							
2319 Inorganic Chemistry Laboratory Prerequisites: Preceded or accompanied by Chem 2310 and Chem 1100.	1.0- 1.0	70188	LAB	3A	M	01:00 - 01:50 pm	SHNK	00305	Nath,M	
			LAB	3A	M	02:00 - 03:50 pm	SHNK	00303		
	2320 Inorganic Chemistry II Prerequisites: CHEM 2310.	3.0- 3.0	72583	LEC	1A	MWF	10:00 - 10:50 am	CH	00103	Choudhury,A
	2510 Analytical Chemistry I Prerequisites: Chem 1320 and preceded or accompanied by Chem 1100.	4.0- 4.0		LEC	1A	MWF	11:00 - 11:50 am	SHNK	00305	Nam,P
		4.0- 4.0	71241	LAB	3A	T	02:00 - 02:50 pm	EMGT	00106	Nam,P
				LAB	3A	T	03:00 - 04:50 pm	SHNK	00307	
4.0- 4.0		71299	LAB	3B	Th	02:00 - 02:50 pm	EMGT	00106	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	70189	LEC	1A	MWF	10:00 - 10:50 am	H-SS	000G5	Woelk,K
3419 Physical Chemistry Laboratory I Prerequisites: Preceded or accompanied by both Chem 3410 and Chem 1100.	1.0- 1.0	70190	LAB	3A	W	01:00 - 01:50 pm	SHNK	00305	Grubbs,G	
			LAB	3A	W	02:00 - 03:50 pm	SHNK	00125		
3420 Introduction To Quantum Chemistry Prerequisites: Physics 2135 or Physics 2111; preceded or accompanied by Math 2222.	3.0- 3.0	72253	LEC	1A	MWF	08:00 - 08:50 am	SHNK	00305	Mochalin,V	
3459 Accelerated Physical Chemistry Laboratory Prerequisites: Preceded or accompanied by both Chem 3420 and Chem 1100.	2.0- 2.0	72202	LAB	3A	W	01:00 - 01:50 pm	SHNK	00305	Grubbs,G	
			LAB	3A	W	02:00 - 05:50 pm	SHNK	00125		
4000 Special Problems Prerequisite: Preceded or accompanied by Chem 1100 or an equivalent training program approved by S&T. Consent of instructor required.	0.0- 6.0	70191	IND	6A	ARR	ARR	ARR		Choudhury,A	
	0.0- 6.0	70192	IND	6B	ARR	ARR	ARR		Dawes,R	
	0.0- 6.0	70193	IND	6C	ARR	ARR	ARR		Ercal,N	
	0.0- 6.0	70194	IND	6D	ARR	ARR	ARR		Glaser,R	
	0.0- 6.0	70195	IND	6E	ARR	ARR	ARR		Kapila,S	
	0.0- 6.0	70196	IND	6F	ARR	ARR	ARR		Leventis,N	
	0.0- 6.0	71079	IND	6G	ARR	ARR	ARR		Nam,P	
	0.0- 6.0	71374	IND	6H	ARR	ARR	ARR		Nath,M	
	0.0- 6.0	70197	IND	6J	ARR	ARR	ARR		Reddy,V	
	0.0- 6.0	70198	IND	6K	ARR	ARR	ARR		Schuman,T	
	0.0- 6.0	70199	IND	6L	ARR	ARR	ARR		Sotiriou-Leventis,C	
	0.0- 6.0	71547	IND	6M	ARR	ARR	ARR		Stavropoulos,P	
	0.0- 6.0	71548	IND	6N	ARR	ARR	ARR		Switzer,J	
	0.0- 6.0	71549	IND	6P	ARR	ARR	ARR		Van De Mark,M	
	0.0- 6.0	71550	IND	6Q	ARR	ARR	ARR		Wang,R	
	0.0- 6.0	71551	IND	6R	ARR	ARR	ARR		Whitefield,P	
0.0- 6.0	71580	IND	6T	ARR	ARR	ARR		Winiarz,J		
0.0- 6.0	71957	IND	6U	ARR	ARR	ARR		Woelk,K		
4010 Undergraduate Seminar	1.0- 1.0	71019	RSD	2A	ARR	ARR	ARR		Choudhury,A	
	1.0- 1.0	71020	RSD	2B	ARR	ARR	ARR		Dawes,R	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	1.0- 1.0	71021	RSD	2C	ARR	ARR	ARR		Ercal,N
	1.0- 1.0	71022	RSD	2D	ARR	ARR	ARR		Glaser,R
	1.0- 1.0	71023	RSD	2E	ARR	ARR	ARR		Grubbs,G
	1.0- 1.0	71024	RSD	2F	ARR	ARR	ARR		Kapila,S
	1.0- 1.0	71346	RSD	2G	ARR	ARR	ARR		Leventis,N
	1.0- 1.0	71025	RSD	2H	ARR	ARR	ARR		Long,G
	1.0- 1.0	71026	RSD	2J	ARR	ARR	ARR		Mochalin,V
	1.0- 1.0	71378	RSD	2K	ARR	ARR	ARR		Nam,P
	1.0- 1.0	71027	RSD	2L	ARR	ARR	ARR		Nath,M
	1.0- 1.0	71028	RSD	2M	ARR	ARR	ARR		Reddy,V
	1.0- 1.0	71029	RSD	2N	ARR	ARR	ARR		Schuman,T
	1.0- 1.0	71030	RSD	2P	ARR	ARR	ARR		Sotiriou-Leventis,C
	1.0- 1.0	71031	RSD	2Q	ARR	ARR	ARR		Stavropoulos,P
	1.0- 1.0	71032	RSD	2R	ARR	ARR	ARR		Switzer,J
	1.0- 1.0	71581	RSD	2T	ARR	ARR	ARR		Wang,R
	1.0- 1.0	71654	RSD	2U	ARR	ARR	ARR		Whitefield,P
	1.0- 1.0	71958	RSD	2V	ARR	ARR	ARR		Winiarz,J
	1.0- 1.0	72584	RSD	2W	ARR	ARR	ARR		Woelk,K
4099 Undergraduate Research	0.0- 6.0	70203	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	70204	IND	6B	ARR	ARR	ARR		Dawes,R
	0.0- 6.0	70205	IND	6C	ARR	ARR	ARR		Ercal,N
	0.0- 6.0	70206	IND	6D	ARR	ARR	ARR		Glaser,R
	0.0- 6.0	70207	IND	6E	ARR	ARR	ARR		Grubbs,G
	0.0- 6.0	70208	IND	6F	ARR	ARR	ARR		Kapila,S
	0.0- 6.0	70209	IND	6G	ARR	ARR	ARR		Leventis,N
	0.0- 6.0	70210	IND	6H	ARR	ARR	ARR		Mochalin,V
	0.0- 6.0	70211	IND	6J	ARR	ARR	ARR		Nam,P
	0.0- 6.0	71379	IND	6K	ARR	ARR	ARR		Nath,M
	0.0- 6.0	70212	IND	6L	ARR	ARR	ARR		Reddy,V
	0.0- 6.0	70213	IND	6M	ARR	ARR	ARR		Schuman,T
	0.0- 6.0	70214	IND	6N	ARR	ARR	ARR		Shi,H
	0.0- 6.0	70215	IND	6P	ARR	ARR	ARR		Sotiriou-Leventis,C
	0.0- 6.0	70216	IND	6Q	ARR	ARR	ARR		Stavropoulos,P
	0.0- 6.0	70217	IND	6R	ARR	ARR	ARR		Switzer,J
	0.0- 6.0	70218	IND	6T	ARR	ARR	ARR		Van De Mark,M
	0.0- 6.0	70219	IND	6U	ARR	ARR	ARR		Wang,R
	0.0- 6.0	71912	IND	6V	ARR	ARR	ARR		Whitefield,P
	0.0- 6.0	71959	IND	6W	ARR	ARR	ARR		Winiarz,J
	0.0- 6.0	72444	IND	6X	ARR	ARR	ARR		Woelk,K
4220 Intermediate Organic Chemistry II	3.0- 3.0	72852	LEC	1A	MWF	11:00 - 11:50 am	CH	00103	Leventis,N
Prerequisite: Chem 2220.									
4297 Organic Synthesis And Spectroscopic Analysis	3.0- 3.0		LEC	1A	T	08:00 - 08:50 am	SHNK	00305	Schuman,T
Prerequisites: Chem 1100, Chem 2220, Chem 2229.	3.0- 3.0	70201	LAB	3A	Th	08:00 - 11:50 am	SHNK	00303	Schuman,T
			LAB	3A	T	09:00 - 11:50 am	SHNK	00303	
4420 Chemical Kinetics II	3.0- 3.0	72207	LEC	1A	TTh	11:00 - 12:15 pm	NOR	00208	Dawes,R
Prerequisites: Chem 3420.									
4510 Instrumental Methods Of Chemical Analysis	4.0- 4.0		LEC	1A	TTh	06:00 - 07:15 pm	TMH	00250	Kapila,S
Prerequisites: Chem 3510 and Chem 3430.	4.0- 4.0	71835	LAB	3A	T	02:00 - 04:50 pm	ARR		Kapila,S
4610 General Biochemistry	3.0- 3.0	71963	LEC	1A	TTh	11:00 - 12:15 pm	BERTELS	00B12A	Wang,R
Prerequisite: Chem 2220.									
4620 Metabolism	3.0- 3.0	70202	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00316	Ercal,N
Prerequisite: Chem 4610.									
4850 Fundamentals Of Protective Coating I	3.0- 3.0	72856	LEC	1A	CANCELLED				
Prerequisite: Chem 1320. (Co-listed with MS&E 4850)									
5100 Laboratory Safety & Hazardous Materials	1.0- 1.0	72203	LEC	1A	MTWThF	08:00 - 08:50 am	SHNK	000G3	Whitefield,P
Prerequisites: Graduate standing.									
5220 Synthetic Organic Chemistry	3.0- 3.0	72853	LEC	1A	MWF	11:00 - 11:50 am	CH	00103	Leventis,N
Prerequisite: Chem 2220.									
5420 Elemental Quantum Chemistry	3.0- 3.0	72254	LEC	1A	MWF	08:00 - 08:50 am	SHNK	00305	Mochalin,V
Prerequisites: Math 2222; Physics 2135 or Physics 2111.									
5430 Advanced Chemical Kinetics	3.0- 3.0	72208	LEC	1A	TTh	11:00 - 12:15 pm	NOR	00208	Dawes,R
Prerequisites: Chem 3430.									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5510 Introduction to Chemical Analysis Prerequisites: Chem 1100, Chem 2510, Chem 2220, Chem 3430.	4.0- 4.0		LEC	1A	TTh	06:00 - 07:15 pm	TMH	00250	Kapila,S
	4.0- 4.0	71961	LAB	3A	T	02:00 - 04:50 pm	ARR		Kapila,S
5610 Biochemistry Prerequisite: Chem 2220.	3.0- 3.0	71964	LEC	1A	TTh	11:00 - 12:15 pm	BERTELS	00B12A	Wang,R
5620 Biochemical Metabolism Prerequisite: Chem 4610 or 5610.	3.0- 3.0	71962	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00316	Ercal,N
5850 Introduction to Coating Chemistry Prerequisite: Chem 1320. (Co-listed with MS&E 4850)	3.0- 3.0	72857	LEC	1A	CANCELLED				
6010 Seminar	1.0- 1.0	70220	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	70240	IND	6A	ARR	ARR	ARR		Glaser,R
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70241	IND	6A	ARR	ARR	ARR		Glaser,R
6099 Research Prerequisite: Must meet departmental requirements for instruction in laboratory safety. Consent of instructor required.	0.0-15.0	70221	IND	6A	ARR	ARR	ARR		Choudhury,A
	0.0-15.0	70222	IND	6B	ARR	ARR	ARR		Dawes,R
	0.0-15.0	70223	IND	6C	ARR	ARR	ARR		Ercal,N
	0.0-15.0	70224	IND	6D	ARR	ARR	ARR		Glaser,R
	0.0-15.0	70225	IND	6E	ARR	ARR	ARR		Grubbs,G
	0.0-15.0	70226	IND	6F	ARR	ARR	ARR		Kapila,S
	0.0-15.0	70227	IND	6G	ARR	ARR	ARR		Leventis,N
	0.0-15.0	70228	IND	6H	ARR	ARR	ARR		Long,G
	0.0-15.0	70229	IND	6J	ARR	ARR	ARR		Mochalin,V
	0.0-15.0	70230	IND	6K	ARR	ARR	ARR		Nam,P
	0.0-15.0	70231	IND	6L	ARR	ARR	ARR		Nath,M
	0.0-15.0	71380	IND	6M	ARR	ARR	ARR		Reddy,V
	0.0-15.0	70232	IND	6N	ARR	ARR	ARR		Schuman,T
	0.0-15.0	70233	IND	6P	ARR	ARR	ARR		Shi,H
	0.0-15.0	70234	IND	6Q	ARR	ARR	ARR		Sotiriou-Leventis,C
	0.0-15.0	70235	IND	6R	ARR	ARR	ARR		Stavropoulos,P
	0.0-15.0	70236	IND	6T	ARR	ARR	ARR		Switzer,J
	0.0-15.0	70237	IND	6U	ARR	ARR	ARR		Van De Mark,M
	0.0-15.0	70238	IND	6V	ARR	ARR	ARR		Wang,R
	0.0-15.0	70239	IND	6W	ARR	ARR	ARR		Whitefield,P
	0.0-15.0	71655	IND	6X	ARR	ARR	ARR		Winiarz,J
	0.0-15.0	71699	IND	6Y	ARR	ARR	ARR		Woelk,K
6240 Physical Organic Chemistry Prerequisite: Chem 4210.	3.0- 3.0	73333	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00110	Sotiriou-Leventis,C
6330 Nanomaterials Synthesis, Properties and Applications Prerequisite: Chem 4310.	3.0- 3.0	72585	LEC	1A	TF	04:00 - 05:15 pm	SHNK	00305	Nath,M
6450 Spectroscopy Prerequisite: Chem 3420 or equivalent.	3.0- 3.0	73515	LEC	1A	MWF	11:00 - 11:50 am	H-SS	00102	Grubbs,G
6550 Chemical Spectroscopy Prerequisite: Chem 4510, Chem 3420 or equivalent courses.	3.0- 3.0	73516	LEC	1A	MWF	11:00 - 11:50 am	H-SS	00102	Grubbs,G
6555 Principles And Applications Of Mass Spectrometry Prerequisite: Chem 4510 or equivalent.	3.0- 3.0	72255	LEC	1A	CANCELLED				
Civil Engineering									
2002 Cooperative Engineering Training	1.0- 3.0	70248	IND	6A	ARR	ARR	ARR		Burken,J
2003 Engineering Communications and Computations (Co-listed with Arch Eng 2003)	3.0- 3.0		LEC	1A	TTh	08:00 - 09:15 am	BCH	00125	Pickerrill,H
			See 'Notes'-Additional Meeting						
	3.0- 3.0	70247	LAB	3A	Th	02:00 - 03:50 pm	BCH	00115	
	3.0- 3.0	71125	LAB	3B	Th	04:00 - 05:50 pm	BCH	00115	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
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	70072	LEC	1A	MWF	09:00 - 09:50 am	IDE	00105	Abbott,D	
	Students in Civ Eng 2200 are scheduled for group exams from 5:00-6:00pm on Wednesdays, February 13th; March 13th; April 17th; and May 8th. See 'Notes' for Evening Exams									
	3.0- 3.0	70073	LEC	1B	MWF	10:00 - 10:50 am	IDE	00105	Abbott,D	
	Students in Civ Eng 2200 are scheduled for group exams from 5:00-6:00pm on Wednesdays, February 13th; March 13th; April 17th; and May 8th. See 'Notes' for Evening Exams									
	3.0- 3.0	70074	LEC	1C	MWF	11:00 - 11:50 am	IDE	00105	Abbott,D	
	Students in Civ Eng 2200 are scheduled for group exams from 5:00-6:00pm on Wednesdays, February 13th; March 13th; April 17th; and May 8th. See 'Notes' for Evening Exams									
	3.0- 3.0	70075	LEC	1D	TTh	09:30 - 10:45 am	H-SS	000G5	Koen,M	
Students in Civ Eng 2200 are scheduled for group exams from 5:00-6:00pm on Wednesdays, February 13th; March 13th; April 17th; and May 8th. See 'Notes' for Evening Exams										
3.0- 3.0	70076	LEC	1E	TTh	11:00 - 12:15 pm	H-SS	000G5	Koen,M		
Students in Civ Eng 2200 are scheduled for group exams from 5:00-6:00pm on Wednesdays, February 13th; March 13th; April 17th; and May 8th. See 'Notes' for Evening Exams										
3.0- 3.0	70077	LEC	1F	TTh	12:30 - 01:45 pm	H-SS	000G5	Koen,M		
Students in Civ Eng 2200 are scheduled for group exams from 5:00-6:00pm on Wednesdays, February 13th; March 13th; April 17th; and May 8th. See 'Notes' for Evening Exams										
LEC 1F ARR ARR ARR Students in Civ Eng 2200 are scheduled for group exams from 5:00-6:00pm on Wednesdays, February 13th; March 13th; April 17th; and May 8th. See 'Notes' for Evening Exams										
2210 Mechanics Of Materials Prerequisite: Civ Eng 2200 with grade of "C" or better.	3.0- 3.0	70079	LEC	1A	MWF	10:00 - 10:50 am	BCH	00120	Libre,N	
	Exams for Civ Eng 2210 1A will be given from 5:00 pm to 6:30pm on Wednesdays: Feb. 6, Mar. 6, Apr. 3, and May 1. See 'Notes' for Evening Exams									
	3.0- 3.0	70078	LEC	1B	MWF	11:00 - 11:50 am	BCH	00120	Libre,N	
	Exams for Civ Eng 2210 1B will be given from 5:00 pm to 6:30pm on Wednesdays: Feb. 6, Mar. 6, Apr. 3, and May 1. See 'Notes' for Evening Exams									
3.0- 3.0	71637	LEC	1D	TTh	11:00 - 12:15 pm	BCH	00124	Wu,C		
Exams for Civ Eng 2210 1D will be given from 5:00 pm to 6:30pm on Wednesdays: Feb. 6, Mar. 6, Apr. 3, and May 1.										
3.0- 3.0	71916	LEC	1E	TTh	12:30 - 01:45 pm	BCH	00124	Hernandez,E		
Exams for Civ Eng 2210 1E will be given from 5:00 pm to 6:30pm on Wednesdays: Feb. 6, Mar. 6, Apr. 3, and May 1.										
2211 Materials Testing Prerequisite: Preceded or accompanied by Civ Eng 2210.	1.0- 1.0	70080	LAB	3A	M	01:00 - 01:50 pm	IDE	000G4A	Libre,N	
	LAB 3A M 02:00 - 02:50 pm IDE 000G6									
	1.0- 1.0	70081	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	70082	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	70083	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	70084	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	71910	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	70085	LAB	3G	W	01:00 - 01:50 pm	IDE	000G4A	Libre,N		

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			LAB	3G	W	02:00 - 02:50 pm	IDE	000G6	
	1.0- 1.0	70086	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	71287	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	71911	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	TTh	09:30 - 10:45 am	BCH	00125	
	Prerequisite: Preceded or accompanied by Math 1214 (or 1208).	3.0- 3.0	70243	LAB	3A	M	01:00 - 03:50 pm	BCH	00215
		3.0- 3.0	70244	LAB	3B	T	12:30 - 03:15 pm	BCH	00318
		3.0- 3.0	70245	LAB	3C	W	01:00 - 03:50 pm	BCH	00318
		3.0- 3.0	73029	LAB	3D	Th	12:30 - 03:15 pm	BCH	00314
2601	Fundamentals Of Environmental Engineering And Science	3.0- 3.0	LEC	1A	MW	08:00 - 08:50 am	BCH	00209	Oerther,D
	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	Burken,J
		3.0- 3.0	70266	LAB	3A2	T	01:00 - 03:50 pm	BCH	00209
		3.0- 3.0	72949	LAB	3A1	M	01:00 - 03:50 pm	BCH	00209
		3.0- 3.0	71571	LAB	3B1	W	01:00 - 03:50 pm	BCH	00209
		3.0- 3.0	72950	LAB	3B2	Th	01:00 - 03:50 pm	BCH	00209
2602	Biological Fundamentals Of Environmental Engineering	3.0- 3.0	71975	LEC	1A	MWF	11:00 - 11:50 am	BCH	00216
	Prerequisites: Bio Sci 1113 and preceded or accompanied by Civ/Env Eng 2601. (Co-listed with Env Eng 2602)								Fitch,M
3116	Construction Materials, Properties And Testing	3.0- 3.0	72615	LEC	1A	MWF	08:00 - 08:50 am	BCH	00110
	Prerequisites: Civ Eng 2211 or Min Eng 3812; Civ Eng 3715 or both Geo Eng 1150 and Min Eng 3412.								Feys,D
									Class will meet 3 lecture periods per week when labs do not meet.
									See 'Notes'-Additional Meeting
		3.0- 3.0	72617	LEC	1B	MWF	10:00 - 10:50 am	BCH	00110
									Class will meet 3 lecture periods per week when labs do not meet.
									See 'Notes'-Additional Meeting
		0.0- 0.0	72616	LAB	3A	T	01:00 - 04:30 pm	BCH	00110
		0.0- 0.0	72618	LAB	3B	Th	01:00 - 04:30 pm	BCH	00110
3201	Structural Analysis I	3.0- 3.0	LEC	1A	TTh	09:30 - 10:20 am	BCH	00318	Abdulazeez,M
		3.0- 3.0	70255	LAB	3A	Th	12:30 - 03:15 pm	BCH	00318
3210	Structural Design in Metals	3.0- 3.0	LEC	1A	MW	12:00 - 12:50 pm	BERTELS	00112A	Yan,G
	Prerequisite: Civ Eng 3201 with a grade of "C" or better. (Co-listed with Arch Eng 3210)								
		3.0- 3.0	70257	LAB	3A	F	01:00 - 03:50 pm	H-SS	000G5
									Yan,G
3220	Reinforced Concrete Design	3.0- 3.0	LEC	1A	MW	10:00 - 10:50 am	BCH	00318	Sneed,L
	Prerequisite: Civ Eng 3201 with grade of "C" or better. (Co-listed with Arch Eng 3220)	3.0- 3.0	70259	LAB	3A	Th	02:00 - 04:50 pm	BCH	00315
									Sneed,L
3330	Engineering Fluid Mechanics	3.0- 3.0	70260	LEC	1A	MWF	09:00 - 09:50 am	BCH	00120
	Prerequisites: IDE 2350 or IDE 2340, and MATH 3304, each with a grade of "C" or better.								Mendoza,C
3334	Water Resources Engineering	4.0- 4.0	LEC	1A	MWF	11:00 - 11:50 am	BCH	00318	Holmes,R
	Prerequisites: Civ Eng 3330 and Stat 3113 with grades of "C" or better.	4.0- 4.0	71238	LAB	3A	M	01:00 - 03:50 pm	BCH	00316
		4.0- 4.0	70262	LAB	3B	F	01:00 - 03:50 pm	BCH	00316
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	70250	LAB	3A	W	02:00 - 03:50 pm	BCH	00115
									Gomaa,E
3715	Fundamentals of Geotechnical Engineering	3.0- 3.0	LEC	1A	MWF	12:00 - 12:50 pm	BCH	00120	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	70252	LAB	3A	M	01:00 - 02:50 pm	CE	00114
		3.0- 3.0	71150	LAB	3B	M	03:00 - 04:50 pm	CE	00114
		3.0- 3.0	70253	LAB	3C	T	01:00 - 02:50 pm	CE	00114
		3.0- 3.0	71891	LAB	3E	W	01:00 - 02:50 pm	CE	00114
		3.0- 3.0	71892	LAB	3F	W	04:00 - 05:50 pm	CE	00114
3842	Fundamentals of Building Systems	3.0- 3.0	70263	LEC	1A	TTh	08:00 - 09:15 am	BCH	00121
	Prerequisites: Physics 2135, Math 2222, and Junior Standing.								Gillis,W
4001	Special Topics	3.0- 3.0	LEC	1A	TTh	09:30 - 10:20 am	BCH	00215	Abdelrahman,M
	Prerequisites: Preceded or accompanied by Civ Eng 2601 and preceded by Civ Eng 3116.								Infrastructure Stst thr Recycl
		3.0- 3.0	73483	LAB	3A	W	01:00 - 03:50 pm	BCH	00110
									Infrastructure Stst thr Recycl

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4097 Senior Design Project Prerequisite: Civ Eng 4448 or Arch Eng 4448. (Co-listed with Arch Eng 4097 and Env Eng 4097)	3.0- 3.0	70267	LEC	1A	M	01:00 - 03:50 pm	BCH	00120	Showalter,W
4099 Undergraduate Research	0.0- 6.0	71371	IND	6A	ARR	ARR	ARR		Abdelrahman,M
	0.0- 6.0	70281	IND	6B	ARR	ARR	ARR		Baur,S
	0.0- 6.0	70282	IND	6C	ARR	ARR	ARR		Burken,J
	0.0- 6.0	70283	IND	6D	ARR	ARR	ARR		Chen,G
	0.0- 6.0	71050	IND	6E	ARR	ARR	ARR		Deng,W
	0.0- 6.0	70284	IND	6F	ARR	ARR	ARR		El-adaway,I
	0.0- 6.0	70285	IND	6G	ARR	ARR	ARR		ElGawady,M
	0.0- 6.0	70286	IND	6H	ARR	ARR	ARR		Feys,D
	0.0- 6.0	71126	IND	6J	ARR	ARR	ARR		Fitch,M
	0.0- 6.0	70280	IND	6K	ARR	ARR	ARR		Gillis,W
	0.0- 6.0	70287	IND	6L	ARR	ARR	ARR		Hu,X
	0.0- 6.0	70288	IND	6M	ARR	ARR	ARR		Khayat,K
	0.0- 6.0	70289	IND	6N	ARR	ARR	ARR		LaBoube,R
	0.0- 6.0	70290	IND	6P	ARR	ARR	ARR		Libre,N
	0.0- 6.0	70291	IND	6Q	ARR	ARR	ARR		Liu,J
	0.0- 6.0	70292	IND	6R	ARR	ARR	ARR		Ma,H
	0.0- 6.0	70293	IND	6T	ARR	ARR	ARR		Mendoza,C
	0.0- 6.0	70294	IND	6U	ARR	ARR	ARR		Myers,J
	0.0- 6.0	71772	IND	6V	ARR	ARR	ARR		Oerther,D
	0.0- 6.0	72084	IND	6W	ARR	ARR	ARR		Olgun,C
	0.0- 6.0	72455	IND	6X	ARR	ARR	ARR		Richardson,D
	0.0- 6.0	72552	IND	6Y	ARR	ARR	ARR		Schonberg,W
	0.0- 6.0	72748	IND	6Z	ARR	ARR	ARR		Showalter,W
	0.0- 6.0	72749	IND	6AA	ARR	ARR	ARR		Sneed,L
	0.0- 6.0	72750	IND	6BB	ARR	ARR	ARR		Wang,J
	0.0- 6.0	72981	IND	6CC	ARR	ARR	ARR		Wu,C
	0.0- 6.0	73244	IND	6DD	ARR	ARR	ARR		Yan,G
	0.0- 6.0	73245	IND	6EE	ARR	ARR	ARR		Zhang,X
4448 Fundamentals Of Contracts And Construction Engineering Prerequisite: Senior Standing. (Co-listed with Arch Eng 4448)	3.0- 3.0	70264	LEC	1A	TTh	08:00 - 09:15 am	BCH	00120	Showalter,W
4729 Foundation Engineering Prerequisite: Civ Eng 3715.	3.0- 3.0	71184	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00101	Zhang,X
5000 Special Problems	0.0- 6.0	70268	IND	6A	ARR	ARR	ARR		Baur,S
						Group will be traveling to So. Africa leaving December 29, 2017 and returning January 14, 2018. Students interested are required to register via PCE office with payment of deposit required by Sept 29th so that airfare and in-country arrangements can be made.			
	0.0- 6.0	70269	IND	6B	ARR	ARR	ARR		Abdelrahman,M
	0.0- 6.0	70270	IND	6C	ARR	ARR	ARR		Burken,J
	0.0- 6.0	71053	IND	6D	ARR	ARR	ARR		Chen,G
	0.0- 6.0	70271	IND	6E	ARR	ARR	ARR		Deng,W
	0.0- 6.0	70272	IND	6F	ARR	ARR	ARR		El-adaway,I
	0.0- 6.0	71086	IND	6G	ARR	ARR	ARR		ElGawady,M
	0.0- 6.0	70273	IND	6H	MWF	12:00 - 12:50 pm	BCH	00215	Feys,D
	0.0- 6.0	71008	IND	6K	ARR	ARR	ARR		Fitch,M
	0.0- 6.0	70274	IND	6L	ARR	ARR	ARR		Gillis,W
	0.0- 6.0	70275	IND	6M	ARR	ARR	ARR		Hu,X
	0.0- 6.0	70276	IND	6N	ARR	ARR	ARR		Khayat,K
	0.0- 6.0	70277	IND	6P	ARR	ARR	ARR		Libre,N
	0.0- 6.0	70278	IND	6Q	ARR	ARR	ARR		Liu,J
	0.0- 6.0	70279	IND	6R	ARR	ARR	ARR		Ma,H
	0.0- 6.0	72085	IND	6T	ARR	ARR	ARR		Mendoza,C
	0.0- 6.0	72086	IND	6U	ARR	ARR	ARR		Myers,J
	0.0- 6.0	72215	IND	6V	ARR	ARR	ARR		Oerther,D
	0.0- 6.0	72553	IND	6W	ARR	ARR	ARR		Olgun,C
	0.0- 6.0	72554	IND	6X	ARR	ARR	ARR		Schonberg,W
	0.0- 6.0	72968	IND	6Y	ARR	ARR	ARR		Showalter,W
	0.0- 6.0	73246	IND	6Z	ARR	ARR	ARR		Sneed,L

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5001 Special Topics Prerequisites: Stat 3113, 3115, or 3117; and graduate standing or senior standing in an undergraduate curriculum related to the environmental, earth science, or engineering.	0.0- 6.0	73247	IND	6AA	ARR	ARR	ARR		Wang,J
	0.0- 6.0	73448	IND	6BB	ARR	ARR	ARR		Wu,C
	0.0- 6.0	73449	IND	6CC	ARR	ARR	ARR		Yan,G
	0.0- 6.0	73450	IND	6DD	ARR	ARR	ARR		Zhang,X
	3.0- 3.0		LEC	1A	T	07:00 - 08:00 pm	BERTELS	00B12A	Holmes,R
	3.0- 3.0	73444	LEC	1B	TTh	12:30 - 01:45 pm	TMH	00260	Yan,G
	3.0- 3.0	73446	LEC	1C	MWF	12:00 - 12:50 pm	TMH	00260	Oerther,D
5113 Composition And Properties Of Concrete Prerequisite: Civ Eng 3116 with a grade of "C" or better.	3.0- 3.0	73447	LEC	1D	CANCELLED				
	3.0- 3.0	73362	LAB	3A	ARR	ARR	ARR		Holmes,R
5156 Concrete Pavement Design Prerequisite: Civ Eng 3116 with a grade of "C" or better.	3.0- 3.0	72902	LEC	1A	TTh	11:00 - 12:15 pm	EECH	00112	Ma,H
									Communication Emphasized
5330 Unsteady Flow Hydraulics Prerequisites: Civ Eng 3330 with a grade of "C" or better.	3.0- 3.0	72555	LEC	1A	TTh	09:30 - 10:45 am	BCH	00110	Liu,J
5331 Hydraulics Of Open Channels Prerequisite: Civ Eng 3330 with a grade of "C" or better.	3.0- 3.0	73394	LEC	1A	Th	04:00 - 06:30 pm	LIB	000G14	
5442 Construction Planning and Scheduling Strategies Prerequisite: Civ Eng or Arch Eng 4448. (Co-listed with Arch Eng 5442)	3.0- 3.0	73248	LEC	1A	MWF	08:00 - 08:50 am	BCH	00216	Mendoza,C
5444 Management Of Construction Costs Prerequisites: Civ Eng 4448 with a grade of "C" or better. (Co-listed with Arch Eng 5446)	3.0- 3.0	71411	LEC	1A	M	04:00 - 06:30 pm	IDE	00105	Bodapati,S
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	72907	LEC	1A	MWF	10:00 - 10:50 am	BCH	00316	Showalter,W
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	71570	LEC	1A	MWF	09:00 - 09:50 am	TMH	00260	Scott-Showalter,P
5515 Advanced Traffic Operations and Capacity Analysis Prerequisite: Civ Eng 5513.	3.0- 3.0	71876	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00215	El-adaway,I
	3.0- 3.0	72906	LEC	1A	Th	07:00 - 09:30 pm	BCH	00213	Hu,X
5619 Environmental Engineering Design Prerequisite: Civ Eng 3615 or Env Eng 3615. (Co-listed with Env Eng 5619)	3.0- 3.0	73563	LEC	1MSU	Th	07:00 - 09:30 pm	PCTR	02006	Hu,X
									Meets Off-Campus Prerequisite
5640 Environmental Law And Regulations (Co-listed with Env Eng 5640)	3.0- 3.0	71812	LAB	3A	Th	04:00 - 04:50 pm	BCH	00216	Campbell,K
	3.0- 3.0	71328	LEC	1A	M	04:00 - 04:50 pm	BCH	00216	Campbell,K
5650 Public Health Engineering Prerequisite: Civ Eng 2601 with a grade of "C" or better. (Co-listed with Env Eng 5650)	3.0- 3.0	71328	LEC	1A	M	05:00 - 05:50 pm	BCH	00209	Campbell,K
	3.0- 3.0	72326	LEC	1A	TTh	07:00 - 09:30 pm	BCH	00213	Flechas,F
5744 Geosynthetics in Engineering Prerequisite: Civ Eng 3715 with grade of "C" or better.	3.0- 3.0	72607	LEC	1A	W	11:00 - 12:15 pm	LIB	000G14	Oerther,D
6000 Special Problems	3.0- 3.0	72607	LEC	1A	W	04:00 - 06:30 pm	BCH	00213	McLain,K
	0.0- 6.0	71373	IND	6B	ARR	ARR	ARR		Abdelrahman,M
	0.0- 6.0	70295	IND	6C	ARR	ARR	ARR		Baur,S
	0.0- 6.0	70296	IND	6D	ARR	ARR	ARR		Burken,J
	0.0- 6.0	71051	IND	6E	ARR	ARR	ARR		Chen,G
	0.0- 6.0	70297	IND	6F	ARR	ARR	ARR		Deng,W
	0.0- 6.0	70298	IND	6G	ARR	ARR	ARR		El-adaway,I
0.0- 6.0	70299	IND	6H	ARR	ARR	ARR		ElGawady,M	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	70300	IND	6J	ARR	ARR	ARR		Feys,D
	0.0- 6.0	71127	IND	6K	ARR	ARR	ARR		Fitch,M
	0.0- 6.0	71010	IND	6L	ARR	ARR	ARR		Gillis,W
	0.0- 6.0	70301	IND	6M	ARR	ARR	ARR		Hu,X
	0.0- 6.0	70302	IND	6N	ARR	ARR	ARR		Khayat,K
	0.0- 6.0	70303	IND	6P	ARR	ARR	ARR		Libre,N
	0.0- 6.0	70304	IND	6Q	ARR	ARR	ARR		Liu,J
	0.0- 6.0	70305	IND	6R	ARR	ARR	ARR		Ma,H
	0.0- 6.0	70306	IND	6T	ARR	ARR	ARR		Mendoza,C
	0.0- 6.0	70307	IND	6U	ARR	ARR	ARR		Myers,J
	0.0- 6.0	71773	IND	6V	ARR	ARR	ARR		Oerther,D
	0.0- 6.0	72087	IND	6W	ARR	ARR	ARR		Olgun,C
	0.0- 6.0	72088	IND	6X	ARR	ARR	ARR		Schonberg,W
	0.0- 6.0	72435	IND	6Y	ARR	ARR	ARR		Showalter,W
	0.0- 6.0	72556	IND	6Z	ARR	ARR	ARR		Sneed,L
	0.0- 6.0	72755	IND	6AA	ARR	ARR	ARR		Wang,J
	0.0- 6.0	73249	IND	6BB	ARR	ARR	ARR		Wu,C
	0.0- 6.0	73250	IND	6CC	ARR	ARR	ARR		Yan,G
	0.0- 6.0	73453	IND	6DD	ARR	ARR	ARR		Zhang,X
6001 Special Topics Prerequisites: Consent of instructor and Graduate Standing.	3.0- 3.0	73252	LEC	1A	TTh	04:00 - 06:30 pm	BCH	00101	Khayat,K
									Concrete Rheology & SCC
	3.0- 3.0		LEC	1B	T	02:00 - 03:50 pm	BCH	00316	Abdelrahman,M
									Pavement Mgmt, Eval &Rehab
	3.0- 3.0	73547	LEC	1C	TTh	02:00 - 03:15 pm	BCH	00317	Hu,X
									Transportation Networks
									UM Shared Course-Secondary
	3.0- 3.0	73485	LAB	3B	Th	01:00 - 03:50 pm	MCNT	00265	Abdelrahman,M
									Pavement Mgmt, Eval &Rehab
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	70322	IND	6A	ARR	ARR	ARR		Burken,J
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70323	IND	6A	ARR	ARR	ARR		Burken,J
6099 Research	0.0-15.0	71285	IND	6A	ARR	ARR	ARR		Abdelrahman,M
	0.0-15.0	70309	IND	6B	ARR	ARR	ARR		Baur,S
	0.0-15.0	70310	IND	6C	ARR	ARR	ARR		Burken,J
	0.0-15.0	71052	IND	6D	ARR	ARR	ARR		Chen,G
	0.0-15.0	70311	IND	6E	ARR	ARR	ARR		Deng,W
	0.0-15.0	70312	IND	6F	ARR	ARR	ARR		El-adaway,I
	0.0-15.0	70313	IND	6G	ARR	ARR	ARR		ElGawady,M
	0.0-15.0	70314	IND	6H	ARR	ARR	ARR		Feys,D
	0.0-15.0	71128	IND	6J	ARR	ARR	ARR		Fitch,M
	0.0-15.0	70308	IND	6K	ARR	ARR	ARR		Gillis,W
	0.0-15.0	70315	IND	6L	ARR	ARR	ARR		Hu,X
	0.0-15.0	70316	IND	6M	ARR	ARR	ARR		Khayat,K
	0.0-15.0	70317	IND	6N	ARR	ARR	ARR		Libre,N
	0.0-15.0	70318	IND	6P	ARR	ARR	ARR		Liu,J
	0.0-15.0	70319	IND	6Q	ARR	ARR	ARR		Luna,R
	0.0-15.0	70320	IND	6R	ARR	ARR	ARR		Ma,H
	0.0-15.0	70321	IND	6T	ARR	ARR	ARR		Mendoza,C
	0.0-15.0	71759	IND	6U	ARR	ARR	ARR		Myers,J
	0.0-15.0	72089	IND	6V	ARR	ARR	ARR		Oerther,D
	0.0-15.0	72090	IND	6W	ARR	ARR	ARR		Olgun,C
	0.0-15.0	72200	IND	6X	ARR	ARR	ARR		Schonberg,W
	0.0-15.0	72436	IND	6Y	ARR	ARR	ARR		Showalter,W
	0.0-15.0	72557	IND	6Z	ARR	ARR	ARR		Sneed,L
	0.0-15.0	72757	IND	6AA	ARR	ARR	ARR		Wang,J
	0.0-15.0	72758	IND	6BB	ARR	ARR	ARR		Wu,C
	0.0-15.0	72759	IND	6CC	ARR	ARR	ARR		Yan,G
	0.0-15.0	73251	IND	6DD	ARR	ARR	ARR		Zhang,X

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6205 Structural Dynamics and Earthquake Engineering Prerequisite: Civ/Arch Eng 5208 or equivalent.	3.0- 3.0	72909	LEC	1A	CANCELLED				
6213 Advanced Design in Steel and Lightweight Structures	3.0- 3.0	73451	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00260	EIGawady,M
									Prerequisite: Preceded or accompanied by Civ Eng 5207.
6338 Advanced Hydrology Prerequisite: Civ Eng 3333.	3.0- 3.0	71539	LEC	1A	T	04:00 - 06:30 pm	BCH	00213	Wilson,L
6611 Physicochemical Operations In Environmental Engineering Systems Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Env Eng 6611 and Chem Eng 6330)	3.0- 3.0	71634	LEC	1A	TTh	09:30 - 10:45 am	BCH	00209	Wang,J
6612 Biological Operations In Environmental Engineering Systems Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Env Eng 6612)	3.0- 3.0	71756	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00213	Fitch,M
6713 Dynamics of Earth Materials Prerequisite: Preceded or accompanied by Civ Eng 5715.	3.0- 3.0	73454	LEC	1A	W	07:00 - 09:30 pm	BCH	00121	Olgun,C
6715 Advanced Soil Mechanics Prerequisite: Civ Eng 5715.	3.0- 3.0	72081	LEC	1A	T	07:00 - 09:30 pm	BCH	00213	Deng,W
6716 Soil Stabilization Prerequisite: Civ Eng 5715.	3.0- 3.0	72080	LEC	1A	M	07:00 - 09:30 pm	TMH	00260	Zhang,X

Computer Engineering

2210 Introduction to Digital Logic Prerequisite: Sophomore standing. Comp Eng 2211 is also a co-requisite for Comp Eng and Elec Eng majors.	3.0- 3.0	70331	LEC	1A	MWF	11:00 - 11:50 am	EMGT	00103	Cetinkaya,E
	3.0- 3.0	70332	LEC	1B	MWF	12:00 - 12:50 pm	EECH	00101	Choi,M
	3.0- 3.0	71899	LEC	1C	TTh	09:30 - 10:45 am	EECH	00112	
	3.0- 3.0	72639	LEC	1D	MWF	01:00 - 01:50 pm	EMGT	00201	Choi,M
2211 Computer Engineering Laboratory Prerequisite: Preceded or accompanied by Comp Eng 2210.	1.0- 1.0	70333	LAB	3A	M	01:00 - 02:50 pm	EECH	00209A	Choi,M
			Communication Emphasized						
	1.0- 1.0	70334	LAB	3B	M	03:00 - 04:50 pm	EECH	00209A	Choi,M
			Communication Emphasized						
	1.0- 1.0	71644	LAB	3C	T	10:00 - 11:50 am	EECH	00209A	Choi,M
			Communication Emphasized						
	1.0- 1.0	70336	LAB	3D	T	02:30 - 04:20 pm	EECH	00209A	Choi,M
			Communication Emphasized						
	1.0- 1.0	71836	LAB	3E	T	06:10 - 08:00 pm	EECH	00209A	Choi,M
			Communication Emphasized						
	1.0- 1.0	70337	LAB	3F	W	01:00 - 02:50 pm	EECH	00209A	Choi,M
			Communication Emphasized						
	1.0- 1.0	70338	LAB	3G	W	03:00 - 04:50 pm	EECH	00209A	Choi,M
			Communication Emphasized						
	1.0- 1.0	70335	LAB	3H	Th	10:00 - 11:50 am	EECH	00209A	Choi,M
			Communication Emphasized						
	1.0- 1.0	72256	LAB	3J	Th	06:10 - 08:00 pm	EECH	00209A	Choi,M
			Communication Emphasized						
3002 Cooperative Engineering Training Prerequisite: Consent of the Electrical and Computer Engineering Department required.	1.0- 1.0	70339	IND	6A	ARR	ARR	ARR		Stanley,R
3110 Computer Organization and Design Prerequisites: COMP ENG 2210; preceded or accompanied by COMP ENG 3150.	3.0- 3.0	71837	LEC	1A	MWF	09:00 - 09:50 am	EMGT	00103	Choi,M
3150 Introduction to Microcontrollers and Embedded System Design Prerequisites: COMP ENG 2210 and COMP SCI 1570 (or programming equivalent) each with grade of "C" or better.	3.0- 3.0	70340	LEC	1A	TTh	09:30 - 10:45 am	EECH	00G31	Stanley,R
	3.0- 3.0	70341	LEC	1B	TTh	12:30 - 01:45 pm	EMGT	00103	Stanley,R
3151 Digital Engineering Lab II	1.0- 1.0	71075	LAB	3B	M	10:00 - 10:50 am	EE	00106	Stanley,R
			Communication Emphasized						
			LAB	3B	M	11:00 - 11:50 am	EECH	00209A	
			Communication Emphasized						

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	1.0- 1.0	71136	LAB	3C	M	06:10 - 07:00 pm	EE	00106	Stanley,R	
			Communication Emphasized							
			LAB	3C	M	07:00 - 07:50 pm	EECH	00209A		
			Communication Emphasized							
	1.0- 1.0	71818	LAB	3D	W	06:10 - 07:00 pm	EECH	00107	Stanley,R	
			Communication Emphasized							
			LAB	3D	W	07:00 - 07:50 pm	EECH	00209A		
			Communication Emphasized							
	1.0- 1.0	72491	LAB	3E	F	06:10 - 07:00 pm	EE	00106	Stanley,R	
			Communication Emphasized							
			LAB	3E	F	07:00 - 07:50 pm	EECH	00209A		
			Communication Emphasized							
	1.0- 1.0	72641	LAB	3F	W	10:00 - 10:50 am	EE	00106		
			Communication Emphasized							
			LAB	3F	W	10:50 - 11:40 am	EECH	00209A	Stanley,R	
			Communication Emphasized							
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	70348	LAB	3A	T	03:30 - 04:20 pm	EECH	00101	Ferguson,I
		1.0- 1.0	70349	LAB	3B	W	03:00 - 03:50 pm	EECH	00104	Woodley,R
4097	Computer Engineering Senior Project II	3.0- 3.0	LAB	3A	MW	03:00 - 04:50 pm	EECH	00G31	Zawodniok,M	
	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	LAB	3B	TTh	03:00 - 04:50 pm	EECH	00G31	Woodley,R	
4099	Undergraduate Research	1.0- 6.0	70345	IND	6A	ARR	ARR	ARR	Cetinkaya,E	
		1.0- 6.0	70346	IND	6B	ARR	ARR	ARR	Sedighsarvestani,S	
		1.0- 6.0	72626	IND	6C	ARR	ARR	ARR	Watkins,S	
		1.0- 6.0	73141	IND	6D	ARR	ARR	ARR	Wunsch,D	
5000	Special Problems	1.0- 6.0	72206	IND	6A	ARR	ARR	ARR	Fan,J	
5040	Oral Examination	0.0- 0.0	71734	IND	6A	ARR	ARR	ARR	Beetner,D	
5099	Special Research And Thesis	1.0-15.0	70353	IND	6A	ARR	ARR	ARR	Acar,L	
	Prerequisite: Consent of the instructor required.	1.0-15.0	70354	IND	6B	ARR	ARR	ARR	Beetner,D	
		1.0-15.0	70355	IND	6C	ARR	ARR	ARR	Cetinkaya,E	
		1.0-15.0	70356	IND	6D	ARR	ARR	ARR	Choi,M	
		1.0-15.0	71304	IND	6E	ARR	ARR	ARR	Fan,J	
		1.0-15.0	70362	IND	6F	ARR	ARR	ARR	Kim,C	
		1.0-15.0	70357	IND	6G	ARR	ARR	ARR	McMillin,B	
		1.0-15.0	70358	IND	6H	ARR	ARR	ARR	Sarangapani,J	
		1.0-15.0	70359	IND	6J	ARR	ARR	ARR	Sedighsarvestani,S	
		1.0-15.0	70360	IND	6K	ARR	ARR	ARR	Stanley,R	
		1.0-15.0	70361	IND	6L	ARR	ARR	ARR	Watkins,S	
		1.0-15.0	71713	IND	6N	ARR	ARR	ARR	Wu,C	
		1.0-15.0	71722	IND	6P	ARR	ARR	ARR	Wunsch,D	
		1.0-15.0	71726	IND	6Q	ARR	ARR	ARR	Zawodniok,M	
5110	Principles of Computer Architecture	3.0- 3.0	71995	LEC	1A	TTh	05:30 - 06:45 pm	EECH	00103	Hurson,A
	Prerequisite: Comp Eng 3110.									
5130	Advanced Microcomputer System Design	3.0- 3.0	73268	LEC	1A	T	04:00 - 06:30 pm	EMGT	00103	Hanna,W
			Prerequisite							
5151	Digital Systems Design Laboratory	3.0- 3.0		LEC	1A	TTh	09:30 - 10:45 am	EECH	00102	Younger,R
	Prerequisites: COMP ENG 3150 or 5110.	3.0- 3.0	70343	LAB	3A	ARR	ARR	ARR	Younger,R	
5170	Real-Time Systems	3.0- 3.0	71838	LEC	1A	MWF	11:00 - 11:50 am	CS	00209	Zawodniok,M
	Prerequisites: COMP ENG 3150 or COMP SCI 3800. Co-listed with Comp Sci 5205									
5220	Digital System Modeling	3.0- 3.0	70344	LEC	1A	MWF	12:00 - 12:50 pm	CS	00209	Dua,R
	Prerequisite: Comp Eng 2210 with a grade of "C" or better.									
5410	Introduction to Computer Communication Networks	3.0- 3.0	71165	LEC	1A	TTh	11:00 - 12:15 pm	EECH	00103	Sedighsarvestani,S
	Prerequisites: Comp Eng 3150 or computer hardware competency and Stat 3117 or Stat 3115 or Stat 5643 or equivalent.									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5620 Signal Integrity in High-Speed Digital & Mixed Signal Design Prerequisites: Elec Eng 3600 or Comp Eng 3150, and Senior standing. (Co-listed with Elec Eng 5620)	3.0- 3.0	70994	LEC	1A	MWF	10:00 - 10:50 am	EECH	00103	Drewniak,J
5820 Mechatronics Prerequisite: Mech Eng 4479 or equivalent. (Co-listed with Aero Eng 5478, Elec Eng 5870 and Mech Eng 5478)	3.0- 3.0		LEC	1A	MWF	10:00 - 10:50 am	BCH	00213	Krishnamurthy,K
	3.0- 3.0	73471	LAB	3A	ARR	ARR	ARR		Krishnamurthy,K
			Additional lab meeting times to be arranged.						
			Prerequisite						
6000 Special Problems Prerequisite: Consent of the instructor.	1.0- 6.0	70352	IND	6A	ARR	ARR	ARR		Cetinkaya,E
	1.0- 6.0	71089	IND	6B	ARR	ARR	ARR		Choi,M
	1.0- 6.0	71594	IND	6C	ARR	ARR	ARR		Sedighsarvestani,S
	1.0- 6.0	71791	IND	6D	ARR	ARR	ARR		Wunsch,D
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70363	IND	6A	ARR	ARR	ARR		Kim,C
6099 Special Research and Thesis Prerequisite: Consent of the instructor required.	1.0-15.0	72124	IND	6A	ARR	ARR	ARR		Beetner,D
	1.0-15.0	72176	IND	6B	ARR	ARR	ARR		Cetinkaya,E
	1.0-15.0	72177	IND	6C	ARR	ARR	ARR		Choi,M
	1.0-15.0	72178	IND	6D	ARR	ARR	ARR		Fan,J
	1.0-15.0	72179	IND	6E	ARR	ARR	ARR		Kim,C
	1.0-15.0	72180	IND	6F	ARR	ARR	ARR		Sarangapani,J
	1.0-15.0	72182	IND	6G	ARR	ARR	ARR		Sedighsarvestani,S
	1.0-15.0	72183	IND	6H	ARR	ARR	ARR		Stanley,R
	1.0-15.0	72184	IND	6J	ARR	ARR	ARR		Watkins,S
	1.0-15.0	72185	IND	6K	ARR	ARR	ARR		Wu,C
	1.0-15.0	72186	IND	6L	ARR	ARR	ARR		Wunsch,D
	1.0-15.0	72187	IND	6M	ARR	ARR	ARR		Zawodniok,M
	1.0-15.0	72188	IND	6N	ARR	ARR	ARR		Zoughi,R
6110 Advanced Computer Architecture I Prerequisite: Comp Eng 5110 or Comp Eng 5120.	3.0- 3.0	73278	LEC	1A	TTh	02:00 - 03:15 pm	EECH	00239	Hurson,A
6120 Advanced Computer Architecture II Prerequisites: COMP ENG 6110.	3.0- 3.0	73280	LEC	1A	T	04:00 - 06:30 pm	EMGT	00103	Hanna,W
6302 Advanced Topics in Data Mining Prerequisite: A "C" or better grade in Comp Sci 301 Introduction to Data Mining. (Co-listed with Comp Sci 6402 and Sys Eng 6216)	3.0- 3.0	72505	LEC	1A	MWF	03:00 - 03:50 pm	BERTELS	00B12A	Leopold,J
6320 Adaptive Dynamic Programming Prerequisites: Elec Eng 5370 or Comp Eng 5310. (Co-listed with Elec Eng 6360, Mech Eng 6458, Aero Eng 6458 and Sys Eng 6215)	3.0- 3.0	73270	LEC	1A	T	07:00 - 09:30 pm	EECH	00103	Wunsch,D
6410 Modeling Complex Systems Prerequisites: Graduate Standing. (Co-listed with SYS ENG 6321)	3.0- 3.0	72460	LEC	1A	W	04:00 - 06:30 pm	TMH	00260	Dagli,C
6420 Wireless Ad hoc and Sensor Networks Prerequisite: Comp Eng 5430 or Comp Eng 5420 or equivalent. (Co-listed with Elec Eng 6430 and Sys Eng 6324)	3.0- 3.0	72663	LEC	1A	MWF	08:00 - 08:50 am	FUL	00107A	Zawodniok,M
6510 Resilient Networks Prerequisites: Sys Eng 6410, Comp Eng 6410, or Comp Eng 5420. (Co-listed with SYS ENG 6322)	3.0- 3.0	73282	LEC	1A	Th	04:00 - 06:30 pm	BERTELS	00B12A	Cetinkaya,E

Computer Science

1200 Discrete Mathematics for Computer Science Prerequisite: A "C" or better grade in Comp Sci 1570.	3.0- 3.0	70372	LEC	1A	MWF	02:00 - 02:50 pm	SHNK	000G3	Zhu,P
1570 Introduction To Programming Prerequisite: Accompanied by Comp Sci 1580.	3.0- 3.0	70364	LEC	1A	MWF	09:00 - 09:50 am	CS	00216	Price,C
	3.0- 3.0	70365	LEC	1B	MWF	10:00 - 10:50 am	CS	00203	Price,C
	3.0- 3.0	70366	LEC	1C	MWF	11:00 - 11:50 am	CS	00216	Morales,A

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	3.0- 3.0	71889	LEC	1D	MWF	12:00 - 12:50 pm	CS	00203	
	3.0- 3.0	71951	LEC	1E	MWF	01:00 - 01:50 pm	CS	00207	Morales,A
	3.0- 3.0	72260	LEC	1F	MWF	02:00 - 02:50 pm	CS	00203	
1575 Data Structures Prerequisite: Grade of "C" or better in Comp Sci 1570.	3.0- 3.0	70371	LEC	1A	MWF	03:00 - 03:50 pm	SHNK	000G3	Taylor,P
1580 Introduction To Programming Laboratory Prerequisite: Accompanied by Comp Sci 1570.	1.0- 1.0	70367	LAB	3A	T	10:00 - 11:50 am	TMH	00251	
	1.0- 1.0	70368	LAB	3B	T	12:00 - 01:50 pm	CH	00105	
	1.0- 1.0	70369	LAB	3C	T	06:00 - 07:50 pm	CH	00105	
	1.0- 1.0	71890	LAB	3D	W	02:00 - 03:50 pm	TMH	00251	
	1.0- 1.0	71952	LAB	3E	W	04:00 - 05:50 pm	CH	00105	
1585 Data Structures Laboratory Prerequisite: Preceded or accompanied by Comp Sci 1575.	1.0- 1.0	72707	LAB	3A	T	02:00 - 03:50 pm	MCNutt	234	
	1.0- 1.0	72708	LAB	3B	Th	10:00 - 11:50 am	TMH	00251	
	1.0- 1.0	72709	LAB	3C	Th	12:00 - 01:50 pm	TMH	00251	
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	72079	LEC	1A	MW	11:00 - 11:50 am	SHNK	000G3	Zhu,P
1982 MATLAB Programming Laboratory Prerequisite: Accompanied by Comp Sci 1972.	1.0- 1.0	71954	LAB	3A	T	02:00 - 03:50 pm	TMH	00251	Zhu,P
	1.0- 1.0	71953	LAB	3B	T	12:00 - 01:50 pm	TMH	00251	
	1.0- 1.0	72574	LAB	3C	T	04:00 - 05:50 pm	TMH	00251	
	1.0- 1.0	73319	LAB	3D	M	04:00 - 05:50 pm	TMH	00251	
	1.0- 1.0	73320	LAB	3E	M	02:00 - 03:50 pm	TMH	00251	
			Prerequisite						
2001 Special Topics (Co-listed with Econ 2001)	3.0- 3.0	73386	LEC	1A	M	01:00 - 03:30 pm	IDE	00202	Bachman,B
2002 Cooperative Work Training	1.0- 5.0	70377	IND	6A	ARR	ARR	ARR		Price,C
2200 Theory of Computer Science Prerequisite: A grade of "C" or better in both Comp Sci 1200 and Comp Sci 1575.	3.0- 3.0	70389	LEC	1A	TTh	02:00 - 03:15 pm	H-SS	000G5	Markowsky,G
2300 File Structures and Introduction to Database Systems Prerequisite: A "C" or better grade in Comp Sci 1510.	3.0- 3.0	70380	LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00B10	Gosnell,M
2500 Algorithms Prerequisite: A grade of "C" or better in both Comp Sci 1200 and Comp Sci 1575; preceded by a grade of "C" or better in either Math 1208 or Math 1214, or accompanied by either Math 1208 or Math 1214.	3.0- 3.0	70381	LEC	1A	TTh	08:00 - 09:15 am	MCNT	00206	McMillin,B
3001 Special Topics Prerequisites: A grade of "C" or better in COMP SCI 2001 or ECON 2001-Domain Exploration and Innovation Methods. (Co-listed with Comp Sci 3001)	3.0- 3.0		LEC	1A	M	04:00 - 06:30 pm	IDE	00202	Bachman,B
	3.0- 3.0	73390	LAB	3A	ARR	ARR	ARR		Bachman,B
3100 Software Engineering I Prerequisite: A "C" or better grade in Comp Sci 2500 and at least Junior standing.	3.0- 3.0	71176	LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00112B	
			LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00112A	Gosnell,M
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	70378	LEC	1A	TTh	08:00 - 09:15 am	CS	00216	Sabharwal,C
	3.0- 3.0	72575	LEC	1B	TTh	09:30 - 10:45 am	CS	00216	Sabharwal,C
3500 Programming Languages And Translators Prerequisite: A "C" or better grade in Comp Sci 2200.	3.0- 3.0	72502	LEC	1A	MWF	12:00 - 12:50 pm	CS	00202	Leopold,J
	3.0- 3.0	70379	LEC	1B	MWF	01:00 - 01:50 pm	CS	00204	Leopold,J
3600 Introduction to Computer Security Prerequisite: A "C" or better grade in Comp Sci 2500.	3.0- 3.0	73322	LEC	1A	TTh	05:00 - 06:15 pm	MCNT	00204	Taylor,P
			Prerequisite						
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	70382	LEC	1A	MWF	02:00 - 02:50 pm	CS	00207	Wilkerson,J
	3.0- 3.0	71956	LEC	1B	MWF	03:00 - 03:50 pm	CS	00207	Gosnell,M
4000 Special Problems	0.0- 6.0	70373	IND	6A	ARR	ARR	ARR		Hurson,A

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	70375	IND	6B	ARR	ARR	ARR		Leopold,J
	0.0- 6.0	70376	IND	6C	ARR	ARR	ARR		Madria,S
	0.0- 6.0	70374	IND	6D	ARR	ARR	ARR		McMillin,B
4001 Special Topics Prerequisite: A grade of "C" or better in both Comp Eng 3150 and Comp Sci 3600.	3.0- 3.0	73519	LEC	1A	Th	04:00 - 06:30 pm	CS	00209	
									Intro to Cyber Security Offens
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	71040	LEC	1A	TTh	03:30 - 04:45 pm	TMH	00295	Morales,A
4097 Software Systems Development II Prerequisite: A "C" or better grade in Comp Sci 4096.	3.0- 3.0	71590	LEC	1A	TTh	03:30 - 04:45 pm	TMH	00295	Morales,A
4099 Undergraduate Research	0.0- 6.0	70390	IND	6A	ARR	ARR	ARR		Das,S
	0.0- 6.0	70391	IND	6B	ARR	ARR	ARR		Fu,Y
	0.0- 6.0	71118	IND	6D	ARR	ARR	ARR		Guo,Z
	0.0- 6.0	71521	IND	6E	ARR	ARR	ARR		Leopold,J
	0.0- 6.0	71622	IND	6F	ARR	ARR	ARR		Lin,D
	0.0- 6.0	71740	IND	6G	ARR	ARR	ARR		Madria,S
	0.0- 6.0	71787	IND	6H	ARR	ARR	ARR		McMillin,B
	0.0- 6.0	71795	IND	6J	ARR	ARR	ARR		Morales,A
	0.0- 6.0	72131	IND	6K	ARR	ARR	ARR		Taylor,P
	0.0- 6.0	72646	IND	6L	ARR	ARR	ARR		Tauritz,D
	0.0- 6.0	72647	IND	6M	ARR	ARR	ARR		Yin,Z
4700 Intellectual Property For Computer Scientists Prerequisite: Senior or graduate standing.	3.0- 3.0	71353	LEC	1A	T	07:00 - 09:30 pm	CS	00209	Canis,R
5000 Special Problems	0.0- 6.0	70383	IND	6A	ARR	ARR	ARR		Hurson,A
	0.0- 6.0	70384	IND	6B	ARR	ARR	ARR		Leopold,J
	0.0- 6.0	70385	IND	6C	ARR	ARR	ARR		Madria,S
	0.0- 6.0	70386	IND	6D	ARR	ARR	ARR		McMillin,B
	0.0- 6.0	70387	IND	6E	ARR	ARR	ARR		Sabharwal,C
	0.0- 6.0	70388	IND	6F	ARR	ARR	ARR		Tauritz,D
5001 Special Topics Prerequisite: COMP SCI 1510. (Co-located with EngMgt/Econ 5001)	3.0- 3.0	73391	LEC	1A	T	04:00 - 06:30 pm	IDE	00202	Markowsky,G
									Comp Sci Entrepreneurship
5099 Research	0.0-16.0	71081	IND	6A	ARR	ARR	ARR		Das,S
	0.0-16.0	70398	IND	6B	ARR	ARR	ARR		Guo,Z
	0.0-16.0	70399	IND	6C	ARR	ARR	ARR		Hurson,A
	0.0-16.0	70400	IND	6D	ARR	ARR	ARR		Jiang,W
	0.0-16.0	70401	IND	6E	ARR	ARR	ARR		Leopold,J
	0.0-16.0	70403	IND	6F	ARR	ARR	ARR		Lin,D
	0.0-16.0	70402	IND	6G	ARR	ARR	ARR		Madria,S
	0.0-16.0	70404	IND	6H	ARR	ARR	ARR		McMillin,B
	0.0-16.0	70405	IND	6J	ARR	ARR	ARR		Sabharwal,C
	0.0-16.0	71119	IND	6K	ARR	ARR	ARR		Sedighsarvestani,S
	0.0-16.0	71721	IND	6L	ARR	ARR	ARR		Tauritz,D
	0.0-16.0	70973	IND	6M	ARR	ARR	ARR		Wunsch,D
	0.0-16.0	71394	IND	6N	ARR	ARR	ARR		Yin,Z
5201 Object-Oriented Numerical Modeling I Prerequisites: A grade of "C" or better in both Comp Sci 3200 and Comp Sci 1575; a grade of "C" or better in one of Math 3108, 3103, 3329.	3.0- 3.0	71554	LEC	1A	MWF	01:00 - 01:50 pm	CS	00203	Price,C
5204 Regression Analysis Prerequisites: Math 2222 and one of Stat 3111, 3113, 3115, 3117, or 5643. (Co-listed with Stat 5346)	3.0- 3.0	71131	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00249	Koob,K
Computer Science									
5205 Real-Time Systems Prerequisites: COMP ENG 3150 or COMP SCI 3800. (Co-listed with Comp Eng 5170).	3.0- 3.0	73151	LEC	1A	MWF	11:00 - 11:50 am	CS	00209	Zawodniok,M

Computer Science

5400	Introduction To Artificial Intelligence Prerequisite: A "C" or better grade in Comp Sci 2500.	3.0- 3.0	72261	LEC	1A	TTh	02:00 - 03:15 pm	CS	00209	Tauritz,D
5406	Interactive Computer Graphics Prerequisite: A "C" or better grade in both Comp Sci 3200 and Comp Sci 2500.	3.0- 3.0	72503	LEC	1A	TTh	11:00 - 12:15 pm	CS	00209	Sabharwal,C
5601	Security Operations & Program Management Prerequisite: A "C" or better grade in all of: operating systems, computer networking, and a writing emphasized course.	3.0- 3.0	71318	LEC	1A	MWF	02:00 - 02:50 pm	TMH	00260	Lutzen,K

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	73323	LEC	1A	TTh	09:30 - 10:45 am	CS	00209	Markowsky,G
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Computer Science

5700	Bioinformatics Prerequisites: A grade of "C" or better in both one of Bio Sci 1113 or Bio Sci 1213 and one of Comp Sci 1570 and Comp Sci 1580 or Comp Sci 1971 and Comp Sci 1981. (Co-listed with Bio Sci 5323)	3.0- 3.0	72939	LEC	1A	MWF	02:00 - 02:50 pm	BCH	00313	Taylor,P
6000	Special Problems	0.0- 6.0	70392	IND	6A	ARR	ARR	ARR		
		0.0- 6.0	70393	IND	6B	ARR	ARR	ARR		Leopold,J
		0.0- 6.0	70394	IND	6C	ARR	ARR	ARR		Madria,S
		0.0- 6.0	70395	IND	6D	ARR	ARR	ARR		McMillin,B
		0.0- 6.0	71080	IND	6E	ARR	ARR	ARR		Sabharwal,C
		0.0- 6.0	70396	IND	6F	ARR	ARR	ARR		Tauritz,D
		0.0- 6.0	70397	IND	6G	ARR	ARR	ARR		Yin,Z
6010	Seminar	1.0- 1.0	71741	RSD	2A	M	10:00 - 10:50 am	CS	00209	McMillin,B
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	70406	IND	6A	ARR	ARR	ARR		Markowsky,G
6050	Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70407	IND	6A	ARR	ARR	ARR		Markowsky,G
6099	Research Special Topics	0.0-16.0	72103	IND	6A	ARR	ARR	ARR		Das,S
		0.0-16.0	72104	IND	6B	ARR	ARR	ARR		Fu,Y
		0.0-16.0	72105	IND	6C	ARR	ARR	ARR		Guo,Z
		0.0-16.0	72106	IND	6D	ARR	ARR	ARR		Hurson,A
		0.0-16.0	72107	IND	6E	ARR	ARR	ARR		Jiang,W
		0.0-16.0	72108	IND	6F	ARR	ARR	ARR		Leopold,J
		0.0-16.0	72109	IND	6G	ARR	ARR	ARR		Lin,D
		0.0-16.0	72110	IND	6H	ARR	ARR	ARR		Madria,S
		0.0-16.0	72111	IND	6J	ARR	ARR	ARR		McMillin,B
		0.0-16.0	72112	IND	6K	ARR	ARR	ARR		Sabharwal,C
		0.0-16.0	72113	IND	6L	ARR	ARR	ARR		Sedighsarvestani,S
		0.0-16.0	72114	IND	6M	ARR	ARR	ARR		Tauritz,D
		0.0-16.0	72115	IND	6N	ARR	ARR	ARR		Wunsch,D
		0.0-16.0	72116	IND	6P	ARR	ARR	ARR		Yin,Z
6102	Model Based Systems Engineering Prerequisites: Graduate Standing. (Co-listed with SYS ENG 6542)	3.0- 3.0	72568	LEC	1A	F	04:00 - 06:30 pm	LIB	000G14	Do,Q
6204	Applied Graph Theory for Computer Science Prerequisite: A grade of "C" or better in Comp Sci 5200.	3.0- 3.0	73460	LEC	1A	T	04:00 - 06:30 pm	CS	00209	Das,S

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6402 Advanced Topics in Data Mining Prerequisite: A "C" or better grade in Comp Sci 5001 Introduction to Data Mining. (Co-listed with Comp Eng 6302 and Sys Eng 6216)	3.0- 3.0	72504	LEC	1A	MWF	03:00 - 03:50 pm	BERTELS	00B12A	Leopold,J

Economics

1100 Principles Of Microeconomics	3.0- 3.0	70409	LEC	1A	M	06:00 - 09:00 pm	TMH	00199	Park,E
			MOTR ECON 102: Introduction to Microeconomics						
	3.0- 3.0	70410	LEC	1B	TTh	09:30 - 10:45 am	MCNT	00216	Fikru,M
			MOTR ECON 102: Introduction to Microeconomics						
	3.0- 3.0	70411	LEC	1C	TTh	12:30 - 01:45 pm	BCH	00120	Park,E
			MOTR ECON 102: Introduction to Microeconomics						
	3.0- 3.0	71770	LEC	1D	TTh	02:00 - 03:15 pm	EMGT	00103	Zhou,Y
			MOTR ECON 102: Introduction to Microeconomics						
1200 Principles Of Macroeconomics	3.0- 3.0	70412	LEC	1A	MWF	10:00 - 10:50 am	EMGT	00103	Puslenghea,R
			MOTR ECON 101: Introduction to Macroeconomics						
	3.0- 3.0	70413	LEC	1B	MWF	02:00 - 02:50 pm	BERTELS	00B10	Puslenghea,R
			MOTR ECON 101: Introduction to Macroeconomics						
	3.0- 3.0	71776	LEC	1C	MWF	01:00 - 01:50 pm	MCNT	00216	Puslenghea,R
			MOTR ECON 101: Introduction to Macroeconomics						
	3.0- 3.0	71920	LEC	1D	M	10:00 - 12:50 pm	IDE	00206	Bachman,B
			MOTR ECON 101: Introduction to Macroeconomics						
2001 Special Topics (Co-listed with Comp Sci 2001)	3.0- 3.0	73385	LEC	1A	M	01:00 - 03:30 pm	IDE	00202	Bachman,B
			Domain Exp Innov Methods						
2100 Intermediate Microeconomic Theory Prerequisites: Econ 1100 and 1200.	3.0- 3.0	70417	LEC	1A	TTh	01:00 - 02:15 pm	CS	00202	Ichim,A
2200 Intermediate Macroeconomic Theory Prerequisites: Econ 1100 and 1200.	3.0- 3.0	71157	LEC	1A	TTh	11:00 - 12:15 pm	CS	00205	Davis,M
3001 Special Topics Prerequisites: A grade of "C" or better in COMP SCI 2001 or ECON 2001-Domain Exploration and Innovation Methods. (Co-listed with Comp Sci 3001)	3.0- 3.0		LEC	1A	M	04:00 - 06:30 pm	IDE	00202	Bachman,B
			Skill Development						
	3.0- 3.0	73388	LAB	3A	ARR	ARR	ARR		Bachman,B
			Skill Development						
3880 Introduction to Sports Economics Prerequisite: Econ 1100 or Econ 1200.	3.0- 3.0	71771	LEC	1A	TTh	09:30 - 10:45 am	CS	00205	Davis,M
4085 Internship Prerequisite: Senior status; must have completed 24 hours in major.	0.0- 6.0	70418	IND	6A	ARR	ARR	ARR		Gelles,G
4130 Network Economy Prerequisite: Econ 1100 or Econ 1200. (Co-listed with IS&T 4257)	3.0- 3.0	71349	LEC	1A	TTh	02:00 - 03:15 pm	HARR	00107	Park,E
4300 Research Methods and Applications in Economics and Business Prerequisites: Econ 1100 or 1200; Math 1140 or higher; Stat 1115 or 3111 or 3113 or 3115 or 3117 or 5643.	3.0- 3.0		LEC	1A	T	09:30 - 10:45 am	BERTELS	00B12A	Ichim,A
	3.0- 3.0	70416	LAB	3A	Th	09:30 - 10:45 am	CS	00206	Ichim,A
4350 Statistical Models in Actuarial Science Prerequisite: Stat 5643 and either Stat 5644 or a 3000-level Stat course. (Co-listed with Stat 5755)	3.0- 3.0	72341	LEC	1A	CANCELLED				
4430 Cost-Benefit Analysis Prerequisite: Econ 2100.	3.0- 3.0	71677	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00249	Fikru,M
4512 Mine Management Prerequisite: Completion of 50 credits toward Mining Engineering degree. (Co-listed with MIN ENG 4512)	3.0- 3.0	73177	LEC	1A	TTh	08:00 - 09:15 am	TMH	00260	Galecki,G
			Prerequisite						
4540 Energy Economics Prerequisite: Econ 2100. (Co-listed with Min Eng 4524)	3.0- 3.0	71797	LEC	1A	MWF	11:00 - 11:50 am	TMH	00249	Gelles,G
5000 Special Problems	0.0- 6.0	72825	IND	6A	ARR	ARR	ARR		Bachman,B
5001 Special Topics Prerequisites: Senior or graduate standing. (co-listed with Eng Mgt 5001)	3.0- 3.0	73392	LEC	1A	T	04:00 - 06:30 pm	IDE	00202	Ferguson,E
			Experiential Innovation						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5337 Financial Mathematics Prerequisites: Math 1215 or Math 1221, Econ 2100 or Econ 2200 or Econ 250 or Econ 321, Stat 3111 or Stat 3113 or Stat 3115 or Stat 3117 or Stat 5643. (Co-listed with Math 5737)	3.0- 3.0	71400	LEC	1A	MWF	12:00 - 12:50 pm	ROLLA	000G4	Gelles,G
6540 Advanced Energy Economics Prerequisite: Econ 2100.	3.0- 3.0	71799	LEC	1A	MWF	11:00 - 11:50 am	TMH	00249	Gelles,G

Education

1040 Perspectives In Education	2.0- 2.0	70419	LEC	1A	T	08:00 - 08:50 am	CH	00103	Roberts,R
1104 Teacher Field Experience Prerequisite: Educ 1040.	2.0- 2.0	70420	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	70421	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	70422	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	72343	LEC	1A	M	04:00 - 06:30 pm	BCH	00124	Spooner,P
3216 Teaching Reading in Content Area	3.0- 3.0	71255	LEC	1A	TTh	09:30 - 10:45 am	H-SS	00102	Long,D
3217 Analysis and Correction of Reading Difficulties Prerequisite: Educ 3215.	3.0- 3.0	73334	LEC	1A	TTh	11:00 - 12:15 pm	CH	00103	Schwartz,M
3218 Language Arts for Elementary Teachers Prerequisite: Educ 1040.	3.0- 3.0	73335	LEC	1A	TTh	02:00 - 03:15 pm	CH	00103	Schwartz,M
3280 Teaching Methods And Skills In The Content Areas Prerequisites: Educ 1040 and 1104.	6.0- 6.0	70423	LEC	1A	T	04:00 - 07:30 pm	CH	00103	Davis,M
			LEC	1A	Th	04:00 - 05:45 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	70424	LEC	1A	F	09:00 - 01:00 pm	CH	00214	
4299 Student Teaching Prerequisites: Professional standing and arrangements made previous semester.	12.0-12.0	70425	LEC	1A	ARR	ARR	ARR		Carter,K

Electrical Engineering

2100 Circuits I Prerequisites: Math 1215 (or 1221) with a grade of "C" or better. Students should enroll in Elec Eng 2100 and Elec Eng 2101 simultaneously.	3.0- 3.0	70426	LEC	1A	MWF	08:00 - 08:50 am	EECH	00104	Swift,T
	3.0- 3.0	71454	LEC	1B	MWF	09:00 - 09:50 am	EECH	00104	Swift,T
	3.0- 3.0	70427	LEC	1C	TTh	11:00 - 12:15 pm	EECH	00101	
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	70428	LAB	3A	M	06:10 - 08:00 pm	EECH	00203	Swift,T
	1.0- 1.0	72720	LAB	3B	T	08:00 - 09:50 am	EECH	00203	Swift,T
	1.0- 1.0	71839	LAB	3C	T	12:30 - 02:20 pm	EECH	00203	Swift,T
	1.0- 1.0	70429	LAB	3D	T	02:30 - 04:20 pm	EECH	00203	Swift,T
	1.0- 1.0	70430	LAB	3E	W	01:00 - 02:50 pm	EECH	00203	Swift,T
	1.0- 1.0	71425	LAB	3F	W	03:00 - 04:50 pm	EECH	00203	Swift,T
	1.0- 1.0	73286	LAB	3G	Th	08:00 - 09:50 am	EECH	00203	Swift,T
	1.0- 1.0	71455	LAB	3H	Th	12:30 - 02:20 pm	EECH	00203	Swift,T
	1.0- 1.0	71456	LAB	3J	Th	02:30 - 04:20 pm	EECH	00203	Swift,T

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2120 Circuits II Prerequisites: Elec Eng 2100 and Math 2222 each with grade of "C" or better; passing the Elec Eng Advancement Exam I.	3.0- 3.0	73499	LEC	1A	WF	08:00 - 08:50 am	EECH	00102	Shrestha,B
			Prerequisite						
	3.0- 3.0	73500	LEC	1B	WF	09:00 - 09:50 am	EECH	00102	Shrestha,B
			Prerequisite						
	3.0- 3.0	73501	LEC	1C	WF	01:00 - 01:50 pm	BCH	00315	Wu,C
			Prerequisite						
	3.0- 3.0		RSD	2A	W	12:00 - 12:50 pm	EECH	00G31	Woodley,R
			Prerequisite						
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	71337	LEC	1A	MWF	10:00 - 10:50 am	EECH	00102	Kim,C
	3.0- 3.0	71338	LEC	1B	TTh	11:00 - 12:15 pm	EECH	00102	Watkins,S
	3.0- 3.0	71339	LEC	1C	TTh	02:00 - 03:15 pm	EECH	00104	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	71452	LAB	3A	M	01:00 - 02:50 pm	EECH	00203	Watkins,S
			This lab also meets in EECH 105 or EECH 106 when specified by the instructor.						
	1.0- 1.0	71340	LAB	3B	M	03:00 - 04:50 pm	EECH	00203	Watkins,S
			This lab also meets in EECH 105 or EECH 106 when specified by the instructor.						
	1.0- 1.0	71341	LAB	3C	T	06:10 - 08:00 pm	EECH	00203	Watkins,S
			This lab also meets in EECH 105 or EECH 106 when specified by the instructor.						
	1.0- 1.0	71342	LAB	3D	W	08:00 - 09:50 am	EECH	00203	Watkins,S
			This lab also meets in EECH 105 or EECH 106 when specified by the instructor.						
	1.0- 1.0	71453	LAB	3E	W	06:10 - 08:00 pm	EECH	00203	Watkins,S
			This lab also meets in EECH 105 or EECH 106 when specified by the instructor.						
	1.0- 1.0	71343	LAB	3F	F	01:00 - 02:50 pm	EECH	00203	Watkins,S
			This lab also meets in EECH 105 or EECH 106 when specified by the instructor.						
	1.0- 1.0	71344	LAB	3G	F	03:00 - 04:50 pm	EECH	00203	Watkins,S
		This lab also meets in EECH 105 or EECH 106 when specified by the instructor.							
1.0- 1.0	71817	LAB	3H	M	08:00 - 09:50 am	EECH	00203	Watkins,S	
		This lab also meets in EECH 105 or EECH 106 when specified by the instructor.							
1.0- 1.0	72434	LAB	3J	F	05:00 - 06:50 pm	EECH	00203	Watkins,S	
		This lab also meets in EECH 105 or EECH 106 when specified by the instructor.							
1.0- 1.0	72640	LAB	3K	F	08:00 - 09:50 am	EECH	00203	Watkins,S	
		This lab also meets in EECH 105 or EECH 106 when specified by the instructor.							
1.0- 1.0	73012	LAB	3L	Th	06:10 - 08:00 pm	EECH	00203	Watkins,S	
		This lab also meets in EECH 105 or EECH 106 when specified by the instructor.							
2800 Electrical Circuits Prerequisites: Math 3304 or 3329; Physics 2135.	3.0- 3.0	70447	LEC	1A	WF	11:00 - 11:50 am	EECH	00G31	Kaur,A
			LEC	1A	ARR	ARR	ARR		
	3.0- 3.0	71298	LEC	1B	WF	01:00 - 01:50 pm	EECH	00G31	Kaur,A
			LEC	1B	ARR	ARR	ARR		
3000 Special Problems	1.0- 6.0	70434	IND	6A	ARR	ARR	ARR		Drewniak,J
3002 Cooperative Engineering Training Prerequisite: Consent of the Electrical and Computer Engineering Department required.	1.0- 1.0	70435	IND	6A	ARR	ARR	ARR		Ferdowski,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	70444	LEC	1A	TTh	11:00 - 12:15 pm	CS	00216	Swift,T
	3.0- 3.0	71842	LEC	1B	MWF	09:00 - 09:50 am	CS	00209	Wu,C

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3101 Electronics I Laboratory Prerequisites: Elec Eng 2120, Elec Eng 2200, Elec Eng 2201, and Comp Eng 2210 each with a grade of "C" or better. Passing grade on Elec Eng Advancement Exam II and III. Elec Eng 3100 is a corequisite.	1.0- 1.0	71841	LAB	3A	M	01:00 - 02:50 pm	EECH	00204	Wu,C
			Communication Emphasized						
	1.0- 1.0	70445	LAB	3B	M	03:00 - 04:50 pm	EECH	00204	Wu,C
			Communication Emphasized						
	1.0- 1.0	72721	LAB	3C	M	06:10 - 08:00 pm	EECH	00204	Wu,C
			Communication Emphasized						
	1.0- 1.0	72722	LAB	3F	T	06:10 - 08:00 pm	EECH	00204	Wu,C
		Communication Emphasized							
	1.0- 1.0	72494	LAB	3H	Th	02:30 - 04:20 pm	EECH	00204	Wu,C
		Communication Emphasized							
	1.0- 1.0	73013	LAB	3J	W	06:10 - 08:00 pm	EECH	00204	Wu,C
		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	71719	LEC	1A	MWF	02:00 - 02:50 pm	EECH	00103	Shrestha,B
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	70440	LEC	1A	MWF	11:00 - 11:50 am	EECH	00102	Kim,C
3320 Control Systems Prerequisites: ELEC ENG 2120 and MATH 3304 each with a grade of "C" or better; passing the ELEC ENG Advancement Exam II; accompanied by ELEC ENG 3321.	3.0- 3.0	71166	LEC	1A	TTh	08:00 - 09:15 am	EECH	00101	Acar,L
	3.0- 3.0	72723	LEC	1B	TTh	02:00 - 03:15 pm	EECH	00101	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	71978	LAB	3A	M	01:00 - 02:50 pm	EECH	00205	Acar,L
	1.0- 1.0	72321	LAB	3B	Th	02:30 - 04:20 pm	EECH	00205	Acar,L
	1.0- 1.0	72322	LAB	3C	F	01:00 - 02:50 pm	EECH	00205	Acar,L
	1.0- 1.0	72344	LAB	3D	T	05:00 - 06:50 pm	EECH	00205	Acar,L
	1.0- 1.0	73014	LAB	3E	M	05:00 - 06:50 pm	EECH	00205	Acar,L
3340 Basic Programmable Logic Controllers Prerequisite: Preceded or accompanied by either Elec Eng 2120 or Elec Eng 2800. Exams are scheduled for 8:00-9:15am on Feb. 24, April 2, and May 5. Students with a conflicting lecture class at TR 8:00-9:15am will schedule the course exams at another time.	3.0- 3.0		LEC	1A	TTh	08:00 - 09:15 am	CS	00209	Erickson,K
	3.0- 3.0	70442	LAB	3A	M	03:00 - 04:50 pm	EECH	00G22	Erickson,K
	3.0- 3.0	70443	LAB	3B	T	12:00 - 01:50 pm	EECH	00G22	Erickson,K
	3.0- 3.0	71512	LAB	3C	T	02:30 - 04:20 pm	EECH	00G22	Erickson,K
	3.0- 3.0	71804	LAB	3D	W	01:00 - 02:50 pm	EECH	00G22	Erickson,K
	3.0- 3.0	72645	LAB	3E	ARR	ARR	EECH	00G22	Erickson,K
	3.0- 3.0	73430	LAB	3F	F	01:00 - 02:50 pm	EECH	00G22	Erickson,K
		Prerequisite							
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	71607	LEC	1A	TTh	09:30 - 10:45 am	BCH	00121	Dua,R
	3.0- 3.0	71458	LEC	1B	MWF	09:00 - 09:50 am	EECH	00G31	Kaur,A
3411 Discrete Linear Systems Laboratory	1.0- 1.0	72727	LAB	3C	T	02:30 - 04:20 pm	EE	00106	Kosbar,K
	1.0- 1.0	71459	LAB	3E	W	03:00 - 04:50 pm	EE	00106	Kosbar,K
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	72495	LEC	1A	MWF	08:00 - 08:50 am	EECH	00101	Kosbar,K
	3.0- 3.0	72496	LEC	1B	MWF	09:00 - 09:50 am	EECH	00101	Kosbar,K
3431 Digital Communication Laboratory Prerequisites: ELEC ENG 2120 and ELEC ENG 2101 with a grade of "C" or better; passing the ELEC ENG Advancement Exam II; preceded or accompanied by ELEC ENG 3430.	1.0- 1.0	72497	LAB	3A	T	12:30 - 02:20 pm	EECH	00205	Kosbar,K
	1.0- 1.0	72498	LAB	3B	T	02:30 - 04:30 pm	EECH	00205	Kosbar,K
	1.0- 1.0	72499	LAB	3C	W	01:00 - 02:50 pm	EECH	00205	Kosbar,K
	1.0- 1.0	72500	LAB	3D	W	03:00 - 04:50 pm	EECH	00205	Kosbar,K
	1.0- 1.0	72642	LAB	3E	Th	05:00 - 06:50 pm	EECH	00205	Kosbar,K
	1.0- 1.0	73015	LAB	3F	W	05:00 - 06:50 pm	EECH	00205	Kosbar,K
3440 Digital Communications II Prerequisites: ELEC ENG 3430 with a grade of "C" or better.	3.0- 3.0	72858	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00102	Zhang,J
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	70436	LEC	1A	TTh	08:00 - 09:15 am	EECH	00104	Kimball,J

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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	70438	LAB	3A	T	12:30 - 02:20 pm	EECH	00G12	Kimball,J
	1.0- 1.0	71457	LAB	3B	W	10:00 - 11:50 am	EECH	00G12	Kimball,J
3540 Power System Design And Analysis Prerequisites: Elec Eng 2120 with a grade of "C" or better; passing grade on the Elec Eng Advancement Exam II.	3.0- 3.0	70437	LEC	1A	MWF	01:00 - 01:50 pm	EECH	00102	Bo,R
3541 Power System Design And Analysis Laboratory Prerequisites: Elec Eng 2120 with a grade of "C" or better; passing grade on the Elec Eng Advancement Exam II. Preceded or accompanied by Elec Eng 3540.	1.0- 1.0	71501	LAB	3A	M	05:00 - 06:50 pm	EECH	00G12	Bo,R
	1.0- 1.0	70439	LAB	3B	Th	12:30 - 02:20 pm	EECH	00G12	Bo,R
	1.0- 1.0	71840	LAB	3C	F	10:00 - 11:50 am	EECH	00G12	Bo,R
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	70446	LEC	1A	TTh	08:00 - 09:15 am	EECH	00111	Donnell,K
	4.0- 4.0	71598	LEC	1B	MWF	10:00 - 10:50 am	FUL	00107A	Wu,C
4000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	70449	IND	6A	ARR	ARR	ARR		Kosbar,K
	0.0- 6.0	70448	IND	6B	ARR	ARR	ARR		Wu,C
	0.0- 6.0	73064	IND	6C	ARR	ARR	ARR		Zheng,Y
4096 Electrical Engineering Senior Project I Prerequisites: Comp Eng 2210, Econ 1100 or 1200, English 3560, at least 3 of the following: Elec Eng 3500, Elec Eng 3540, Elec Eng 3320, Elec Eng 3420, Elec Eng 3600, Elec Eng 3100.	1.0- 1.0		RSD	2A	M	12:00 - 12:50 pm	EECH	00G31	Woodley,R
	1.0- 1.0		RSD	2B	M	12:00 - 12:50 pm	EECH	00G31	Woodley,R
	1.0- 1.0	70465	LAB	3A	T	03:30 - 04:20 pm	EECH	00101	Ferguson,I
	1.0- 1.0	70466	LAB	3B	W	03:00 - 03:50 pm	EECH	00104	Woodley,R
4097 Electrical Engineering Senior Project II Prerequisite: Elec Eng 4096 with a grade of "C" or better, Stat 3117, Sp&M S 1185.	3.0- 3.0	70467	LAB	3A	MW	03:00 - 04:50 pm	EECH	00G31	Zawodniok,M
	3.0- 3.0	70468	LAB	3B	TTh	03:00 - 04:50 pm	EECH	00G31	Woodley,R
4099 Undergraduate Research Prerequisite: Consent of instructor.	0.0- 6.0	70453	IND	6A	ARR	ARR	ARR		Crow,M
	0.0- 6.0	71308	IND	6B	ARR	ARR	ARR		Drewniak,J
	0.0- 6.0	70454	IND	6C	ARR	ARR	ARR		Erickson,K
	0.0- 6.0	70455	IND	6D	ARR	ARR	ARR		Fan,J
	0.0- 6.0	70456	IND	6E	ARR	ARR	ARR		Kimball,J
	0.0- 6.0	70457	IND	6F	ARR	ARR	ARR		Kosbar,K
	0.0- 6.0	70458	IND	6G	ARR	ARR	ARR		Sarangapani,J
	0.0- 6.0	70459	IND	6H	ARR	ARR	ARR		Shamsi,P
	0.0- 6.0	70460	IND	6J	ARR	ARR	ARR		Watkins,S
	0.0- 6.0	70461	IND	6K	ARR	ARR	ARR		Wu,C
	0.0- 6.0	70976	IND	6M	ARR	ARR	ARR		Zoughi,R
4380 Practicum in Automation Engineering Prerequisites: Elec Eng 3340	3.0- 3.0	73549	LAB	3A	ARR	ARR	ARR		Erickson,K
5000 Special Problems	0.0- 6.0	72425	IND	6A	ARR	ARR	ARR		Watkins,S
5001 Special Topics Prerequisites: Elec Eng 3500 or Elec Eng 3540.	3.0- 3.0	73287	LEC	1A	MWF	01:00 - 01:50 pm	EECH	00239	Crow,M
	3.0- 3.0	73289	LEC	1B	T	07:00 - 09:30 pm	FUL	00107A	Ferguson,I
5040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70496	IND	6A	ARR	ARR	ARR		Beetner,D
	0.0- 0.0	70497	IND	6B	ARR	ARR	ARR		Beetner,D
5099 Special Research And Thesis	0.0-15.0	70474	IND	6A	ARR	ARR	ARR		Acar,L
	0.0-15.0	70475	IND	6B	ARR	ARR	ARR		Beetner,D
	0.0-15.0	70476	IND	6F	ARR	ARR	ARR		Cetinkaya,E
	0.0-15.0	70477	IND	6G	ARR	ARR	ARR		Choi,M
	0.0-15.0	70478	IND	6H	ARR	ARR	ARR		Crow,M

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	0.0-15.0	70479	IND	6K	ARR	ARR	ARR		Donnell,K	
	0.0-15.0	71303	IND	6L	ARR	ARR	ARR		Drewniak,J	
	0.0-15.0	71085	IND	6M	ARR	ARR	ARR		Erickson,K	
	0.0-15.0	71087	IND	6N	ARR	ARR	ARR		Fan,J	
	0.0-15.0	70480	IND	6P	ARR	ARR	ARR		Ferdowski,M	
	0.0-15.0	70481	IND	6Q	ARR	ARR	ARR		Huang,J	
	0.0-15.0	70482	IND	6T	ARR	ARR	ARR		Hwang,C	
	0.0-15.0	70483	IND	6U	ARR	ARR	ARR		Khilkevich,V	
	0.0-15.0	70484	IND	6V	ARR	ARR	ARR		Kim,C	
	0.0-15.0	70485	IND	6W	ARR	ARR	ARR		Kimball,J	
	0.0-15.0	70486	IND	6X	ARR	ARR	ARR		Kosbar,K	
	0.0-15.0	70487	IND	6Z	ARR	ARR	ARR		Pommerenke,D	
	0.0-15.0	70488	IND	6AA	ARR	ARR	ARR		Sarangapani,J	
	0.0-15.0	70489	IND	6CC	ARR	ARR	ARR		Sedighsarvestani,S	
	0.0-15.0	70490	IND	6DD	ARR	ARR	ARR		Shamsi,P	
	0.0-15.0	70491	IND	6EE	ARR	ARR	ARR		Stanley,R	
	0.0-15.0	70492	IND	6FF	ARR	ARR	ARR		Watkins,S	
	0.0-15.0	70493	IND	6GG	ARR	ARR	ARR		Wu,C	
	0.0-15.0	70494	IND	6HH	ARR	ARR	ARR		Wunsch,D	
	0.0-15.0	71723	IND	6JJ	ARR	ARR	ARR		Zawodniok,M	
	0.0-15.0	71782	IND	6KK	ARR	ARR	ARR		Zoughi,R	
5300	Digital Control Prerequisite: Elec Eng 3320.	3.0- 3.0	70450	LEC	1A	TTh	11:00 - 12:15 pm	EECH 00239	Acar,L	
5345	PLC Motion Control Prerequisites: Elec Eng 3340.	3.0- 3.0		LEC	1A	MWF	08:00 - 08:50 am	CS 00209	Erickson,K	
		3.0- 3.0	73020	LAB	3A	M	01:00 - 02:50 pm	EECH 00G22	Erickson,K	
		3.0- 3.0	73021	LAB	3B	W	03:00 - 04:50 pm	EECH 00G22	Erickson,K	
		3.0- 3.0	73022	LAB	3C	Th	12:00 - 01:50 pm	EECH 00G22	Erickson,K	
5350	Plantwide Process Control Prerequisites: Chem Eng 4110, Elec Eng 3320, Elec Eng 3340 or graduate standing. (Co-listed with Chem Eng 5190)	3.0- 3.0	71843	LEC	1A	TTh	02:00 - 03:15 pm	EECH 00103	Erickson,K	
5370	Introduction to Neural Networks and Applications Prerequisites: Graduate Standing. (Co-listed with Sys Eng 5212)	3.0- 3.0	71971	LEC	1A	T	07:00 - 09:30 pm	LIB 000G14	Dagli,C	
5420	Communications Systems II Prerequisite: Elec Eng 3430.	3.0- 3.0	70451	LEC	1A	W	04:00 - 06:30 pm	BERTELS 00B12A	Potter,C	
5500	Electric Drive Systems Prerequisites: Elec Eng 3500 and Elec Eng 3320.	3.0- 3.0	72859	LEC	1A	MWF	10:00 - 10:50 am	EECH 00239	Shamsi,P	
5521	Power Electronics Laboratory Prerequisite: Co-requisite Elec Eng 5520.	2.0- 2.0	72729	LAB	3A	MW	03:00 - 04:50 pm	EECH 00G12	Shamsi,P	
5620	Signal Integrity in High-Speed Digital & Mixed Signal Design Prerequisites: Elec Eng 3600 or Comp Eng 3150, and Senior standing. (Co-listed with Comp Eng 5620)	3.0- 3.0	70452	LEC	1A	MWF	10:00 - 10:50 am	EECH 00103	Drewniak,J	
5670	Nondestructive Testing Prerequisite: Physics 24 or 25. (Co-listed with Met Eng 5510)	3.0- 3.0	71498	LEC	1A	TTh	12:30 - 01:45 pm	EECH 00111	Zoughi,R	
5870	Mechatronics Prerequisite: Mech Eng 4479 or equivalent. (Co-listed with Aero Eng 5478, Mech Eng 5478 and Comp Eng 5820)	3.0- 3.0		LEC	1A	MWF	10:00 - 10:50 am	BCH 00213	Krishnamurthy,K	
		3.0- 3.0	73469	LAB	3A	ARR	ARR	ARR	Krishnamurthy,K	
				Additional lab meeting times to be arranged.						
				Prerequisite						
6000	Special Problems	0.0- 6.0	70469	IND	6A	ARR	ARR	ARR	Crow,M	
		0.0- 6.0	70470	IND	6B	ARR	ARR	ARR	Drewniak,J	
		0.0- 6.0	70471	IND	6C	ARR	ARR	ARR	Ferdowski,M	
		0.0- 6.0	70472	IND	6D	ARR	ARR	ARR	Khilkevich,V	
		0.0- 6.0	70473	IND	6E	ARR	ARR	ARR	Kim,C	
		0.0- 6.0	71214	IND	6F	ARR	ARR	ARR	Kimball,J	
		0.0- 6.0	71224	IND	6G	ARR	ARR	ARR	Kosbar,K	
		0.0- 6.0	71309	IND	6H	ARR	ARR	ARR	Pommerenke,D	
		0.0- 6.0	71237	IND	6J	ARR	ARR	ARR	Sarangapani,J	
		0.0- 6.0	71423	IND	6K	ARR	ARR	ARR	Sedighsarvestani,S	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	71511	IND	6L	ARR	ARR	ARR		Shamsi,P
	0.0- 6.0	72955	IND	6M	ARR	ARR	ARR		Watkins,S
6001 Special Topics Prerequisites: Elec Eng 3600 or equivalent undergraduate electromagnetics course.	3.0- 3.0	73291	LEC	1A	TTh	09:30 - 10:45 am	EECH	00239	Donnell,K
									HiFreq Sensor & Sensing Systms
	3.0- 3.0	73293	LEC	1B	TTh	12:30 - 01:45 pm	EECH	00103	Huang,J
									Intro to Nonlinear Optics
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70498	IND	6A	ARR	ARR	ARR		Kim,C
6085 Internship DE students only.	0.0-15.0	70495	IND	6A	ARR	ARR	ARR		
6099 Special Research And Thesis	0.0-15.0	72134	IND	6A	ARR	ARR	ARR		Acar,L
	0.0-15.0	72136	IND	6B	ARR	ARR	ARR		Beetner,D
	0.0-15.0	72137	IND	6C	ARR	ARR	ARR		Cetinkaya,E
	0.0-15.0	72138	IND	6D	ARR	ARR	ARR		Choi,M
	0.0-15.0	72151	IND	6E	ARR	ARR	ARR		Crow,M
	0.0-15.0	72152	IND	6F	ARR	ARR	ARR		Donnell,K
	0.0-15.0	72153	IND	6G	ARR	ARR	ARR		Drewniak,J
	0.0-15.0	72154	IND	6H	ARR	ARR	ARR		Erickson,K
	0.0-15.0	72155	IND	6J	ARR	ARR	ARR		Fan,J
	0.0-15.0	72156	IND	6K	ARR	ARR	ARR		Ferdowsi,M
	0.0-15.0	72157	IND	6L	ARR	ARR	ARR		Ferguson,I
	0.0-15.0	72158	IND	6M	ARR	ARR	ARR		Huang,J
	0.0-15.0	72159	IND	6N	ARR	ARR	ARR		Hwang,C
	0.0-15.0	72160	IND	6P	ARR	ARR	ARR		Khilkevich,V
	0.0-15.0	72161	IND	6Q	ARR	ARR	ARR		Kim,C
	0.0-15.0	72162	IND	6R	ARR	ARR	ARR		Kimball,J
	0.0-15.0	72163	IND	6T	ARR	ARR	ARR		Kosbar,K
	0.0-15.0	72164	IND	6U	ARR	ARR	ARR		Pommerenke,D
	0.0-15.0	72165	IND	6V	ARR	ARR	ARR		Sarangapani,J
	0.0-15.0	72166	IND	6W	ARR	ARR	ARR		Sedighsarvestani,S
	0.0-15.0	72167	IND	6X	ARR	ARR	ARR		Shamsi,P
	0.0-15.0	72168	IND	6Y	ARR	ARR	ARR		Stanley,R
	0.0-15.0	72169	IND	6Z	ARR	ARR	ARR		Watkins,S
	0.0-15.0	72170	IND	6AA	ARR	ARR	ARR		Wu,C
	0.0-15.0	72171	IND	6BB	ARR	ARR	ARR		Wunsch,D
	0.0-15.0	72172	IND	6CC	ARR	ARR	ARR		Zawodniok,M
	0.0-15.0	72173	IND	6DD	ARR	ARR	ARR		Zoughi,R
6140 Advanced RF & Time Domain Measurements Prerequisite: Graduate standing.	3.0- 3.0		LEC	1A	TTh	03:30 - 04:45 pm	HYPOINT	00205	Pommerenke,D
	3.0- 3.0	73295	LAB	3A	ARR	ARR	ARR		Pommerenke,D
6310 Optimal Control And Estimation Prerequisite: Elec Eng 6300.	3.0- 3.0	71845	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00239	Sarangapani,J
6335 Discrete-Time Neural Network Control Prerequisites: Elec Eng 6300.	3.0- 3.0	73296	LEC	1A	TTh	09:30 - 10:45 am	EECH	00111	Sarangapani,J
6360 Adaptive Dynamic Programming Prerequisites: Elec Eng 5370 or Comp Eng 5310. (Co-listed with Comp Eng 6320, Mech Eng 6458, Aero Eng 6458 and Sys Eng 6215)	3.0- 3.0	73272	LEC	1A	T	07:00 - 09:30 pm	EECH	00103	Wunsch,D
6430 Wireless Ad hoc and Sensor Networks Prerequisite: Comp Eng 5430 or Comp Eng 5420 or equivalent. (Co-listed with Comp Eng 6420 and Sys Eng 6324)	3.0- 3.0	72664	LEC	1A	MWF	08:00 - 08:50 am	FUL	00107A	Zawodniok,M
6520 Advanced Power Electronics Prerequisite: Elec Eng 5520.	3.0- 3.0	73297	LEC	1A	TTh	12:30 - 01:45 pm	CS	00209	Ferdowsi,M
6530 Power System Reliability	3.0- 3.0	73299	LEC	1A	TTh	08:00 - 09:15 am	FUL	00107A	Nauert,P
6540 Computer Methods In Power System Analysis Prerequisite: Elec Eng 3540 or similar course.	3.0- 3.0	73301	LEC	1A	MWF	12:00 - 12:50 pm	EECH	00239	Crow,M
6565 Power System Protection II Prerequisite: Elec Eng 6560.	3.0- 3.0	73196	LEC	1A	TTh	08:00 - 09:15 am	EECH	00239	Nauert,P
6600 Advanced Electromagnetics I Prerequisite: Elec Eng 3600 or equivalent undergraduate electromagnetics course.	3.0- 3.0	72258	LEC	1A	MWF	03:00 - 03:50 pm	EECH	00103	Drewniak,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6640 Advanced Topics in Antenna Analysis and Design Prerequisite: Elec Eng 5640 or equivalent.	3.0- 3.0	73303	LEC	1A	TTh	11:00 - 12:15 pm	EECH	00111	Zoughi,R

Engineering Management

1100 Practical Concepts for Technical Managers	1.0- 1.0	71323	LEC	1A	ARR	ARR	ARR		Grasman,K
	1.0- 1.0	71324	LEC	1B	ARR	ARR	ARR		Grasman,K
1210 Economic Analysis of Engineering Projects Prerequisite: Math 1214.	2.0- 2.0	71358	LEC	1A	ARR	ARR	ARR		Grasman,K
									No required classroom meetings other than common exams scheduled for Feb. 27th and April 10th from 6:00-8:00 pm. See 'Notes' for Evening Exams
	2.0- 2.0	71242	LEC	1B	ARR	ARR	ARR		Grasman,K
									No required classroom meetings other than common exams scheduled for Feb. 27th and April 10th from 6:00-8:00 pm. See 'Notes' for Evening Exams
2002 Cooperative Engineering Training	0.0- 6.0	70499	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	71805	LEC	1A	MWF	10:00 - 10:50 am	CS	00207	Godse,P
	3.0- 3.0	70500	LEC	1B	TTh	09:30 - 10:45 am	IDE	00206	Spurlock,D
2211 Engineering Accounting and Finance Prerequisite: Eng Mgt 1210, or understanding of engineering economic principles.	3.0- 3.0	71391	LEC	1A	TTh	03:30 - 04:45 pm	MCNT	00212	Hodges,S
	3.0- 3.0	72246	LEC	1B	TTh	02:00 - 03:15 pm	MCNT	00212	Hodges,S
2310 Introduction to System Engineering Prerequisite: Math 1208 or Math 1214.	3.0- 3.0	71894	LEC	1A	TTh	08:00 - 09:15 am	H-SS	000G5	Corns,S
	3.0- 3.0	72777	LEC	1B	TTh	09:30 - 10:45 am	H-SS	00101	Corns,S
3310 Operations and Production Management Prerequisites: Eng Mgt 2110.	3.0- 3.0	70503	LEC	1A	MWF	09:00 - 09:50 am	EMGT	00102	Sun,Z
3320 Introduction to Project Management Prerequisites: Junior or above standing.	3.0- 3.0	71243	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00250	Schuman,J
3510 Marketing Management Prerequisites: Preceded or accompanied by Eng Mgt 2110.	3.0- 3.0	70501	LEC	1A	MWF	11:00 - 11:50 am	EMGT	00201	Long,S
4099 Undergraduate Research	0.0- 6.0	70505	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	70502	LEC	1A	TTh	09:30 - 10:45 am	FUL	00220	Raper,S
4310 Materials Handling and Plant Layout Prerequisites: Junior standing.	3.0- 3.0		LEC	1A	MW	01:00 - 01:50 pm	BCH	00314	Gosavi,A
	3.0- 3.0	71229	LAB	3A	W	02:00 - 03:50 pm	BCH	00316	Gosavi,A
4312 Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing. (Co-listed with Chem Eng 5130)	3.0- 3.0	71577	LEC	1A	M	07:00 - 09:30 pm	CS	00209	Schmidt,M
4330 Human Factors Prerequisite: Psych 1101. (Co-listed with Psych 4710)	3.0- 3.0	71968	LEC	1A	TTh	09:30 - 10:45 am	EECH	00101	Baker,D
4710 Quality Prerequisites: Stat 3115 or Stat 3117.	3.0- 3.0	71325	LEC	1A	TTh	02:00 - 03:15 pm	MCNT	00206	Cudney,E
4907 Engineering Management Senior Design Prerequisites: Preceded or accompanied by Eng Mgt 4110.	3.0- 3.0	71393	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00315	Raper,S
5001 Special Topics Prerequisite: Senior or graduate standing. (Co-listed with Econ 5001)	3.0- 3.0	73393	LEC	1A	T	04:00 - 06:30 pm	IDE	00202	Ferguson,E
5111 Management for Engineers and Scientists Prerequisite: Graduate standing.	3.0- 3.0	71461	LEC	1A	W	04:00 - 06:30 pm	LIB	000G14	Spurlock,D
5212 Intelligent Investing Prerequisites: Senior or Graduate Standing.	3.0- 3.0	72927	LEC	1A	M	04:00 - 06:30 pm	LIB	000G14	Enke,D

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5312 Advanced Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing.	3.0- 3.0	71970	LEC	1A	M	07:00 - 09:30 pm	CS	00209	Schmidt,M
5313 Packaging Management	3.0- 3.0	72796	LEC	1A	MWF	12:00 - 12:50 pm	EMGT	00103	Raper,S
5320 Project Management Prerequisite: Graduate Standing	3.0- 3.0	70991	LEC	1A	M	04:00 - 06:30 pm	BERTELS	00B12B	Berry,R
5410 Industrial System Simulation Prerequisite: Stat 3115 or Stat 3117.	3.0- 3.0	72461	LEC	1A	MWF	08:00 - 08:50 am	BCH	00313	Sun,Z
5412 Operations Management Science Prerequisites: Graduate standing.	3.0- 3.0	71360	LEC	1A	T	07:00 - 09:30 pm	TMH	00260	Gosavi,A
5512 Legal Environment Prerequisites: Senior or graduate standing.	3.0- 3.0	70504	LEC	1A	T	04:00 - 06:30 pm	BERTELS	00B12B	Canis,R
5515 Integrated Product And Process Design Prerequisites: Junior or above standing. (Co-listed with MECH ENG 5757)	3.0- 3.0	72247	LEC	1A	Th	04:00 - 05:15 pm	BERTELS	00B12B	Gosavi,A
5613 Value Analysis Prerequisite: Senior or graduate standing.	3.0- 3.0	71530	LEC	1A	M	07:00 - 09:30 pm	BERTELS	00B12B	Lin,H
5614 Supply Chain Management Systems Prerequisite: Stat 3115 or Stat 3117.	3.0- 3.0	71685	LEC	1A	TTh	12:30 - 01:45 pm	FUL	00227	Ojha,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	70506	IND	6A	ARR	ARR	ARR		Long,S
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70507	IND	6A	ARR	ARR	ARR		Long,S
6099 Research	0.0-15.0	72008	IND	6A	ARR	ARR	ARR		Corns,S
	0.0-15.0	72009	IND	6B	ARR	ARR	ARR		Cudney,E
	0.0-15.0	72010	IND	6C	ARR	ARR	ARR		Dagli,C
	0.0-15.0	72011	IND	6D	ARR	ARR	ARR		Enke,D
	0.0-15.0	72012	IND	6E	ARR	ARR	ARR		Gosavi,A
	0.0-15.0	72013	IND	6F	ARR	ARR	ARR		Grantham,K
	0.0-15.0	72016	IND	6J	ARR	ARR	ARR		Long,S
	0.0-15.0	72017	IND	6K	ARR	ARR	ARR		Murray,S
	0.0-15.0	72018	IND	6L	ARR	ARR	ARR		Qin,R
	0.0-15.0	72019	IND	6M	ARR	ARR	ARR		Raper,S
	0.0-15.0	73059	IND	6N	ARR	ARR	ARR		Sun,Z
6110 Case Studies In General Management Prerequisite: Preceded or accompanied by an Eng Mgt 6000 level course.	3.0- 3.0	71203	LEC	1A	T	07:00 - 09:30 pm	LIB	00316	Bade,J
6211 Advanced Financial Management Prerequisite: Eng Mgt 1210 or 5210.	3.0- 3.0	71462	LEC	1A	T	04:00 - 06:30 pm	LIB	000G14	Enke,D
6215 Financial Risk Management Prerequisite: Eng Mgt 1210 or 5210. (Co-listed with Sys Eng 6615)	3.0- 3.0	73348	LEC	1A	TTh	12:30 - 01:45 pm	LIB	000G14	Enke,D
6323 Global Project Management Prerequisite: Eng Mgt 5320 or equivalent.	3.0- 3.0	71244	LEC	1A	T	04:00 - 06:30 pm	TMH	00260	Schuman,J
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	73379	LEC	1A	W	07:00 - 09:30 pm	BERTELS	00B12B	Kwasa,B
6413 Advanced Engineering Management Science Prerequisite: Eng Mgt 5414 or graduate standing.	3.0- 3.0	73383	LEC	1A	T	04:00 - 06:30 pm	BERTELS	00B12A	Canfield,C
6510 Technological Innovation Management Prerequisite: Eng Mgt 5111.	3.0- 3.0	70996	LEC	1A	Th	04:00 - 06:30 pm	LIB	00316	Bade,J
6710 Design for Six Sigma Prerequisite: Eng Mgt 5710.	3.0- 3.0	72778	LEC	1A	TTh	12:30 - 01:45 pm	FUL	00107A	Cudney,E

English

1120 **Exposition And Argumentation**

3.0- 3.0 70508 LEC 1A TTh 11:00 - 12:15 pm H-SS 00204
MOTR ENGL 100: Composition I

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	3.0-3.0	70509	LEC	1B	TTh	12:30 - 01:45 pm	H-SS	000G8				
			MOTR ENGL 100: Composition I									
	3.0-3.0	71253	LEC	1C	MWF	09:00 - 09:50 am	EMGT	00104	Arthur,R			
			MOTR ENGL 100: Composition I									
	3.0-3.0	70510	LEC	1D	MWF	10:00 - 10:50 am	H-SS	00204	Arthur,R			
			MOTR ENGL 100: Composition I									
	3.0-3.0	70511	LEC	1E	MWF	12:00 - 12:50 pm	H-SS	000G8	Ekstam,F			
			MOTR ENGL 100: Composition I									
	3.0-3.0	71356	LEC	1F	MWF	11:00 - 11:50 am	H-SS	00204				
			MOTR ENGL 100: Composition I									
	3.0-3.0	71481	LEC	1H	MWF	01:00 - 01:50 pm	H-SS	00203				
			MOTR ENGL 100: Composition I									
	3.0-3.0	71357	LEC	1J	ARR	ARR	ARR		Tate,K			
			MOTR ENGL 100: Composition I									
	3.0-3.0	70512	LEC	1K	TTh	11:00 - 12:15 pm	EMGT	00104	Wise,R			
			MOTR ENGL 100: Composition I									
	3.0-3.0	71600	LEC	1L	TTh	09:30 - 10:45 am	H-SS	000G9	Tate,K			
			MOTR ENGL 100: Composition I									
	3.0-3.0	71171	LEC	1M	TTh	12:30 - 01:45 pm	H-SS	00104	Wise,R			
			MOTR ENGL 100: Composition I									
	3.0-3.0	71801	LEC	1N	TTh	02:00 - 03:15 pm	H-SS	00104	Tate,K			
			MOTR ENGL 100: Composition I									
1160	Writing And Research Prerequisite: English 1120.	3.0-3.0	70513	LEC	1A	ARR	ARR	ARR	Larson,J			
			MOTR ENGL 200: Composition II									
	3.0-3.0	70514	LEC	1B	MWF	09:00 - 09:50 am	H-SS	000G8	Schneider,R			
			MOTR ENGL 200: Composition II									
	3.0-3.0	71601	LEC	1C	MWF	10:00 - 10:50 am	H-SS	000G8	Schneider,R			
			MOTR ENGL 200: Composition II									
	3.0-3.0	70516	LEC	1D	MWF	02:00 - 02:50 pm	H-SS	00202	Goldberg,M			
			MOTR ENGL 200: Composition II									
	3.0-3.0	71489	LEC	1E	TTh	02:00 - 03:15 pm	H-SS	00204				
			MOTR ENGL 200: Composition II									
	3.0-3.0	71507	LEC	1F	ARR	ARR	ARR		Larson,J			
			MOTR ENGL 200: Composition II									
	3.0-3.0	71506	LEC	1G	TTh	11:00 - 12:15 pm	H-SS	00202				
			MOTR ENGL 200: Composition II									
	3.0-3.0	70515	LEC	1H	MWF	11:00 - 11:50 am	H-SS	00203	Goldberg,M			
			MOTR ENGL 200: Composition II									
	3.0-3.0	72204	LEC	1J	MWF	01:00 - 01:50 pm	H-SS	00102	Schneider,R			
			MOTR ENGL 200: Composition II									
	3.0-3.0	72420	LEC	1K	MWF	10:00 - 10:50 am	H-SS	000G7	Goldberg,M			
			MOTR ENGL 200: Composition II									
	3.0-3.0	73354	LEC	1L	ARR	ARR	ARR		Larson,J			
			MOTR ENGL 200: Composition II									
			Prerequisite									
	3.0-3.0	73355	LEC	1M	ARR	ARR	ARR		Larson,J			
			MOTR ENGL 200: Composition II									
			Prerequisite									
1211	British Literature I: The Beginnings To 1800	3.0-3.0	70517	LEC	1A	MWF	02:00 - 02:50 pm	TMH	00249	Schneider,R		
			MOTR LITR 102: British Literature									
1212	British Literature II 1800 To Present	3.0-3.0	70518	LEC	1A	TTh	02:00 - 03:15 pm	EMGT	00201	Swenson,K		
			MOTR LITR 102: British Literature									
1221	American Literature: 1600 To 1865	3.0-3.0	72242	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00104	Dolan,K		
			MOTR LITR 101: American Literature									
1222	American Literature: 1865 To Present	3.0-3.0	70519	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00201	Brown,T		
			MOTR LITR 101: American Literature									
				3.0-3.0	71213	LEC	1B	MWF	12:00 - 12:50 pm	CS	00204	Goldberg,M
			MOTR LITR 101: American Literature									
			MOTR LITR 200: World Literature									
1231	World Literature I: From The Beginnings To The Renaissance	3.0-3.0	72560	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00102	Bryan,E		
			MOTR LITR 200: World Literature									
1600	Introduction to Technical Communication Prerequisite: English 1120. (Co-listed with TCH COM 1600)	3.0-3.0	71151	LEC	1A	MWF	11:00 - 11:50 am	MCNT	000B14			
			3.0-3.0	71603	LEC	1B	TTh	11:00 - 12:15 pm	H-SS	00102		
			3.0-3.0	72323	LEC	1C	MWF	09:00 - 09:50 am	H-SS	00102	Davis,C	
2000	Special Problems And Readings Prerequisite: Consent of instructor.	0.0-6.0	70522	IND	6A	ARR	ARR	ARR		Swenson,K		

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2172 Creative Nonfiction Writing Prerequisite: English 1120 or equivalent.	3.0- 3.0	73305	LEC	1A	TTh	11:00 - 12:15 pm	CS	00202	Tate,K
			Prerequisite						
2241 Literature For Adolescents Prerequisites: English 1120 and a semester of college literature.	3.0- 3.0	73548	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00101	Arthur,R
			Prerequisite						
2244 Fantasy Literature Prerequisites: English 1120 and a semester of college literature.	3.0- 3.0	72062	LEC	1A	MW	09:00 - 09:50 am	H-SS	00201	Reardon,D
			LEC	1A	ARR	ARR	ARR		
2248 Thematic Studies in Literature and Film Prerequisites: English 1120 and semester of college literature.	3.0- 3.0	73306	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00203	Brown,T
			Prerequisite						
2560 Technical Marketing Communication Prerequisites: English 1600 or Tch Com 1600 or English 1160. (Co-listed with TCH COM 2560)	3.0- 3.0	71630	LEC	1A	MWF	11:00 - 11:50 am	CSF	00114	Roberson,E
	3.0- 3.0	71061	LEC	1B	ARR	ARR	ARR		Wright,M
3000 Special Problems	0.0- 6.0	71067	IND	6A	ARR	ARR	ARR		Swenson,K
3001 Special Topics Prerequisites: One of the following: History 1100, History 1200, History 1300, History 1310.	3.0- 3.0	73492	LEC	1A	TTh	09:30 - 10:45 am	ROLLA	000G4	
			Folk Tech and Material Culture						
3227 American Gothic Prerequisite: English 1120 and a previous literature course.	3.0- 3.0	73308	LEC	1A	MWF	11:00 - 11:50 am	H-SS	000G7	Dolan,K
			Prerequisite						
3302 History And Structure Of The English Language Prerequisite: English 1120.	3.0- 3.0	71629	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00316	Bryan,E
3304 Language in Society Prerequisites: English 1120.	3.0- 3.0	73518	LEC	1A	TTh	02:00 - 03:15 pm	NOR	00208	Hercula,S
3550 Writing for Social Media Prerequisites: One semester of college composition or technical writing. (Co-listed with Tch Com 3550)	3.0- 3.0	73312	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00102	Davis,C
3560 Technical Writing Prerequisites: English 1120 and second-semester junior standing.	3.0- 3.0	71152	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00202	
	3.0- 3.0	72325	LEC	1B	MWF	10:00 - 10:50 am	MCNT	000B14	
	3.0- 3.0	70520	LEC	1C	MWF	09:00 - 09:50 am	CSF	00114	Roberson,E
	3.0- 3.0	70521	LEC	1D	MWF	01:00 - 01:50 pm	H-SS	00202	
	3.0- 3.0	72063	LEC	1F	MWF	10:00 - 10:50 am	CSF	00114	Roberson,E
	3.0- 3.0	72588	LEC	1G	ARR	ARR	ARR		Malone,E
			Course meets first 8 weeks of the semester.						
			UM Shared Course-Secondary						
5571 Advanced Writing For Science & Engineering Prerequisites: English 3560 and 2560, or graduate standing.	3.0- 3.0	73377	LEC	1A	T	05:00 - 08:00 pm	TMH	00249	Hercula,S

Enterprise Resource Planning

2110 Introduction to Enterprise Resource Planning Prerequisite: IS&T 1750.	3.0- 3.0	71584	LEC	1A	W	04:00 - 06:30 pm	FUL	00107A	Lea,B
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	73156	LEC	1A	TTh	09:30 - 10:45 am	FUL	00107A	Claybaugh,C
5210 Performance Dashboard, Scorecard and Data Visualization Prerequisite: ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	71352	LEC	1A	MWF	09:00 - 09:50 am	FUL	00107A	Lea,B
5240 Enterprise Application Development and Software Security Prerequisites: Programming knowledge and either ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	73158	LEC	1A	Th	04:00 - 06:30 pm	FUL	00107A	Claybaugh,C

CATALOG #	AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6444	Essentials of Data Warehouses Prerequisite: IS&T 3423 or equivalent relational database experience. (Co-listed with IS&T 6444)	3.0- 3.0	71513	LEC	1A	TTh	02:00 - 03:15 pm	FUL	00107A	Yu,W

Environmental Engineering

2601	Fundamentals Of Environmental Engineering and Science Prerequisites: Chem 1310, Chem 1301, or Chem 1351; Math 1214, Math 1212, or Math 1208. (Co-listed with Civ Eng 2601)	3.0- 3.0		LEC	1A	MW	08:00 - 08:50 am	BCH	00209	Oerther,D
		3.0- 3.0		LEC	1B	MW	11:00 - 11:50 am	BCH	00209	Burken,J
		3.0- 3.0	71377	LAB	3A1	M	01:00 - 03:50 pm	BCH	00209	Oerther,D
		3.0- 3.0	72951	LAB	3A2	T	01:00 - 03:50 pm	BCH	00209	Oerther,D
		3.0- 3.0	71572	LAB	3B1	W	01:00 - 03:50 pm	BCH	00209	Burken,J
		3.0- 3.0	72952	LAB	3B2	Th	01:00 - 03:50 pm	BCH	00209	Burken,J
2602	Biological Fundamentals Of Environmental Engineering Prerequisites: Bio Sci 1113 and preceded or accompanied by Civ/Env Eng 2601. (Co-listed with Civ Eng 2602)	3.0- 3.0	71974	LEC	1A	MWF	11:00 - 11:50 am	BCH	00216	Fitch,M
3603	Chemical Fundamentals Of Environmental Engineering Prerequisites: Chem 1320 or Geology 3410; Physics 1135, Math 2222.	3.0- 3.0		LEC	1A	TTh	12:30 - 01:45 pm	BCH	00101	Mohan,V
		3.0- 3.0	71994	LAB	3A	Th	02:00 - 03:50 pm	BCH	00316	
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	71259	LEC	1A	M	01:00 - 03:50 pm	BCH	00120	Showalter,W
4099	Undergraduate Research	0.0- 6.0	71520	IND	6A	ARR	ARR	ARR		Burken,J
		0.0- 6.0	71542	IND	6B	ARR	ARR	ARR		Fitch,M
		0.0- 6.0	71543	IND	6C	ARR	ARR	ARR		Oerther,D
		0.0- 6.0	71544	IND	6D	ARR	ARR	ARR		Wang,J
4609	Research in Environmental Engineering Prerequisite: Senior standing.	1.0- 1.0	71162	LEC	1A	ARR	ARR	ARR		Burken,J
5000	Special Problems	0.0- 6.0	72191	IND	6A	ARR	ARR	ARR		Burken,J
5001	Special Topics Prerequisites: Stat 3113, 3115, or 3117; and graduate standing or senior standing in an undergraduate curriculum related to the environmental, earth science, or engineering.	3.0- 3.0		LEC	1A	T	07:00 - 08:00 pm	BERTELS	00B12A	Holmes,R
		3.0- 3.0	73456	LEC	1B	MWF	12:00 - 12:50 pm	TMH	00260	Oerther,D
		3.0- 3.0	73358	LAB	3A	ARR	ARR	ARR		Holmes,R
5619	Environmental Engineering Design Prerequisite: Civ Eng 3615 or Env Eng 3615. (Co-listed with Civ Eng 5619)	3.0- 3.0		LEC	1A	T	04:00 - 04:50 pm	BCH	00216	Campbell,K
		3.0- 3.0	71814	LAB	3A	Th	04:00 - 04:50 pm	BCH	00216	
5640	Environmental Law And Regulations (Co-listed with Civ Eng 5640)	3.0- 3.0	71334	LAB	3A	Th	05:00 - 05:50 pm	BCH	00209	Campbell,K
5650	Public Health Engineering Prerequisite: Civ Eng 2601 with grade of "C" or better. (Co-listed with Civ Eng 5650)	3.0- 3.0	72327	LEC	1A	TTh	07:00 - 09:30 pm	BCH	00213	Flechas,F
6000	Special Problems	3.0- 3.0	72327	LEC	1A	TTh	11:00 - 12:15 pm	LIB	000G14	Oerther,D
		0.0- 6.0	70324	IND	6A	ARR	ARR	ARR		Burken,J
		0.0- 6.0	70325	IND	6B	ARR	ARR	ARR		Fitch,M
		0.0- 6.0	70326	IND	6C	ARR	ARR	ARR		Oerther,D
		0.0- 6.0	71011	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	70330	IND	6A	ARR	ARR	ARR		Burken,J
6099	Research	0.0-15.0	70327	IND	6A	ARR	ARR	ARR		Burken,J
		0.0-15.0	70328	IND	6B	ARR	ARR	ARR		Fitch,M
		0.0-15.0	70329	IND	6C	ARR	ARR	ARR		Oerther,D
		0.0-15.0	71012	IND	6D	ARR	ARR	ARR		Wang,J
6611	Physicochemical Operations In Environmental Engineering Systems Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Civ Eng 6611 and Chem Eng 6330)	3.0- 3.0	71635	LEC	1A	TTh	09:30 - 10:45 am	BCH	00209	Wang,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6612 Biological Operations In Environmental Engineering Systems Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Civ Eng 6612)	3.0- 3.0	71758	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00213	Fitch,M

Etymology

4306 Introduction To Etymology Prerequisite: Any foreign language course or English 1120.	3.0- 3.0	72525	LEC	1A	MWF	02:00 - 02:50 pm	CH	00103	Cohen,G
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Explosives Engineering

5622 Blasting Design And Technology Prerequisites: Min Eng 5612. Student must be at least 21 years of age. Successful background check. (Co-listed with Min Eng 5622)	3.0- 3.0		LEC	1A	T	12:30 - 02:20 pm	MINE		Worsey,P
			"BACKGROUND CHECK REQUIRED IN ADVANCE. SEE SECRETARY IN MCNUTT 226."						
	3.0- 3.0	71559	LAB	3A	Th	01:00 - 03:45 pm	MINE		Worsey,P
	3.0- 3.0	71560	LAB	3B	M	01:00 - 03:45 pm	MINE		Worsey,P
5922 Tunneling & Underground Construction Techniques	3.0- 3.0	72737	LEC	1A	ARR	00:00 - 00:00 am			Perry,K
			Prerequisite: Consent of instructor. (Co-listed with Min Eng 5922)						
	3.0- 3.0		LAB	3A	ARR	00:00 - 00:00 am			Perry,K

Explosives Engineering

6050 Continuous Registration	1.0- 1.0	73104	IND	6A	ARR	ARR	ARR		Perry,K
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Explosives Engineering

6070 Graduate Cooperative Experience Prerequisite: 12 hours Exp Eng coursework.	3.0- 3.0	71696	LAB	3A	ARR	ARR	ARR		Worsey,P
	3.0- 3.0	72394	LAB	3B	ARR	ARR	ARR		Johnson,C
6080 Industry Project Prerequisite: 12 hours Exp Eng coursework.	3.0- 3.0	71697	LAB	3A	ARR	ARR	ARR		Johnson,C
	3.0- 3.0	72392	LAB	3B	ARR	ARR	ARR		Lusk,B
	3.0- 3.0	72534	LAB	3C	ARR	ARR	ARR		Perry,K
	3.0- 3.0	72535	LAB	3D	ARR	ARR	ARR		Worsey,P
6099 Research Prerequisites: Consent of instructor required.	0.0-15.0	71689	IND	6A	ARR	ARR	ARR		Johnson,C
	0.0-15.0	71690	IND	6B	ARR	ARR	ARR		Perry,K
	0.0-15.0	72536	IND	6C	ARR	ARR	ARR		Worsey,P
6312 Scientific Instrumentation For Explosives Testing & Blasting	3.0- 3.0		LEC	1A	Th	10:00 - 12:00 pm	MINE		Johnson,C
	3.0- 3.0	73174	LAB	3A	Th	01:00 - 03:15 pm	MINE		Johnson,C

Finance

2150 Corporate Finance I Prerequisites: Bus 1210 or Eng Mgt 2211.	3.0- 3.0	72345	LEC	1A	MWF	02:00 - 02:50 pm	FUL	00227	Liu,Y
	3.0- 3.0	71535	LEC	1B	TTh	12:30 - 01:45 pm	BCH	00216	Zhang,H
5260 Investments I Prerequisites: Finance 2150.	3.0- 3.0	71633	LEC	1A	TTh	09:30 - 10:45 am	EECH	00103	Zhang,H

French

1101 Elementary French I Prerequisite: Entrance requirements.	4.0- 4.0	72338	LEC	1A	MWF	09:00 - 09:50 am	EECH	00111	
			MOTR LANG 101: French I						
			LEC	1A	ARR	ARR	ARR		Webster,C
			MOTR LANG 101: French I						
1102 Elementary French II Prerequisite: French 1101.	4.0- 4.0	70524	LEC	1A	MWF	10:00 - 10:50 am	EECH	00111	Webster,C
			MOTR LANG 102: French II						
			LEC	1A	ARR	ARR	ARR		
			MOTR LANG 102: French II						
1180 Intermediate French Prerequisite: French 1102. One hour ARR	4.0- 4.0	72586	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00104	Webster,C
			LEC	1A	ARR	ARR	ARR		
2170 Masterpieces Of French Literature Prerequisite: French 1180.	3.0- 3.0	72791	LEC	1A	TTh	09:30 - 10:45 am	HARR	00107	Merfeld-Langston,A

Freshman Engineering

1100 Study And Careers In Engineering	1.0- 1.0	71701	LEC	1A	M	05:00 - 05:50 pm	EMGT	00103	Miller,F
			LEC	1A	ARR	ARR	ARR		

Geological Engineering

1150 Physical and Environmental Geology Prerequisite: Entrance requirements.	0.0- 0.0	73231	LEC	1A	TTh	11:00 - 12:15 pm	EECH	00G31	Rogers,J
	3.0- 3.0	73232	LAB	3A	M	01:00 - 03:50 pm	MCNT	00316	Rogers,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	3.0- 3.0	73233	LAB	3B	T	12:30 - 03:15 pm	MCNT	00316	Rogers,J
	3.0- 3.0	73234	LAB	3C	W	01:00 - 03:50 pm	MCNT	00316	Rogers,J
	3.0- 3.0	73414	LAB	3D	Th	02:00 - 04:50 pm	MCNT	00316	Rogers,J
	3.0- 3.0	73415	LAB	3E	F	01:00 - 03:50 pm	MCNT	00316	Rogers,J
2000 Special Problems	0.0- 6.0	70526	IND	6A	ARR	ARR	ARR		Maerz,N
2002 Cooperative Work Training	1.0- 3.0	71704	IND	6A	ARR	ARR	ARR		Grote,K
2110 Principles Of Geological Engineering Prerequisite: Sophomore standing in the GE program.	1.0- 1.0	70525	LEC	1A	W	08:00 - 08:50 am	MCNT	00265	Grote,K
2605 Statics and Mechanics of Geologic Materials	3.0- 3.0	73060	LEC	1A	ARR	ARR	ARR		Gertsch,L
3175 Geomorphology And Terrain Analysis Prerequisite: Geo Eng 1150.	3.0- 3.0		LEC	1A	TTh	08:00 - 08:50 am	MCNT	00212	Gertsch,L
	3.0- 3.0	70528	LAB	3A	M	01:00 - 03:50 pm	MCNT	00265	Gertsch,L
	3.0- 3.0	71597	LAB	3B	W	01:00 - 03:50 pm	MCNT	00265	Gertsch,L
4000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	70529	IND	6A	ARR	ARR	ARR		Gertsch,L
	0.0- 6.0	70530	IND	6B	ARR	ARR	ARR		Grote,K
	0.0- 6.0	70531	IND	6C	ARR	ARR	ARR		
	0.0- 6.0	72335	IND	6D	ARR	ARR	ARR		Maerz,N
	0.0- 6.0	72336	IND	6E	ARR	ARR	ARR		Rogers,J
4010 Current Topics and Professionalism Prerequisite: Senior standing. (Co-listed with Geology 4010, Pet Eng 4010)	0.5- 0.5	71693	RSD	2A	W	04:00 - 04:50 pm	MCNT	00204	Grote,K
4099 Undergraduate Research	0.0- 6.0	70536	IND	6A	ARR	ARR	ARR		Anderson,N
	0.0- 6.0	72845	IND	6B	ARR	ARR	ARR		Gertsch,L
	0.0- 6.0	72846	IND	6C	ARR	ARR	ARR		Grote,K
	0.0- 6.0	72847	IND	6D	ARR	ARR	ARR		Maerz,N
	0.0- 6.0	72848	IND	6E	ARR	ARR	ARR		Rogers,J
	0.0- 6.0	72849	IND	6F	ARR	ARR	ARR		Smith,R
4115 Statistical Methods in Geology and Engineering	3.0- 3.0	71254	LEC	1A	MWF	09:00 - 09:50 am	BCH	00213	Hilgedick,S
4276 Environmental Aspects Of Mining Prerequisites: Co-requisites: MIN ENG 4933 or GEO ENG 5441 or ENV ENG 5619. (Co-listed with MIN ENG 4742)	3.0- 3.0	71271	LEC	1A	ARR	ARR			
5001 Special Topics Prerequisites: Stat 3113, 3115, or 3117; and graduate standing or senior standing in an undergraduate curriculum related to the environmental, earth science, or engineering.	3.0- 3.0		LEC	1A	T	07:00 - 08:00 pm	BERTELS	00B12A	Holmes,R
	3.0- 3.0	73366	LAB	3A	ARR	ARR	ARR		Holmes,R
5085 Internship DE students only.	0.0-15.0	70545	IND	6A	ARR	ARR	ARR		Grote,K
5099 Research	0.0-15.0	70540	IND	6A	ARR	ARR	ARR		Anderson,N
	0.0-15.0	70541	IND	6B	ARR	ARR	ARR		Gertsch,L
	0.0-15.0	70542	IND	6C	ARR	ARR	ARR		Grote,K
	0.0-15.0	70543	IND	6D	ARR	ARR	ARR		Maerz,N
	0.0-15.0	70544	IND	6E	ARR	ARR	ARR		Rogers,J
	0.0-15.0	73416	IND	6F	ARR	ARR	ARR		Smith,R
5144 Remote Sensing Technology Prerequisite: Geology 1110. (Co-listed with Geology 4310)	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	MCNT	000B14	Smith,R
	3.0- 3.0	71201	LAB	3A	Th	02:00 - 05:00 pm	BCH	00313	Smith,R
5174 Geological Engineering Field Methods	3.0- 3.0	70534	LAB	3A	MW	12:00 - 12:50 pm	ARR		Bunch,J
			LAB	3A	W	01:00 - 03:50 pm	ARR		
5276 Advanced Environmental Aspects Of Mining (Co-listed with Min Eng 5742)	3.0- 3.0	73181	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00103	Awuah-Offei,K
5381 Intermediate Subsurface Hydrology And Contaminant Transport Mechs Prerequisites: Civ Eng 3330 & Geo Eng 5331.	3.0- 3.0	70535	LEC	1A	MWF	11:00 - 11:50 am	EECH	00239	Grote,K
5443 Subsurface Exploration Prerequisite: Geo Eng 1150.	3.0- 3.0		LEC	1A	M	04:00 - 06:30 pm	BCH	00213	Maerz,N
	3.0- 3.0	70533	LAB	3A	T	12:30 - 03:15 pm	MCNT	00265	Maerz,N
5782 Environmental and Engineering Geophysics Prerequisite: Math 2222. (Co-listed with Geophys 5782)	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	MCNT	00243	Anderson,N
	3.0- 3.0	71399	LAB	3A	T	01:00 - 03:00 pm	CSF	00G5D	Anderson,N
6000 Special Problems	0.0- 6.0	70537	IND	6A	ARR	ARR	ARR		Anderson,N

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	70538	IND	6B	ARR	ARR	ARR		Grote,K
	0.0- 6.0	70539	IND	6C	ARR	ARR	ARR		Gertsch,L
	0.0- 6.0	71149	IND	6D	ARR	ARR	ARR		Maerz,N
	0.0- 6.0	71316	IND	6E	ARR	ARR	ARR		Rogers,J
6040 Oral Examination	0.0- 0.0	70546	IND	6A	ARR	ARR	ARR		Rogers,J
Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.									
6050 Continuous Registration	1.0- 1.0	71980	IND	6A	ARR	ARR	ARR		Rogers,J
6099 Research	0.0-15.0	72962	IND	6A	ARR	ARR	ARR		Gertsch,L
	0.0-15.0	72974	IND	6B	ARR	ARR	ARR		Grote,K
	0.0-15.0	73007	IND	6C	ARR	ARR	ARR		Maerz,N
6625 Applications in Geological Engineering	3.0- 3.0	73550	LEC	1A	W	04:00 - 06:30 pm	CS	00209	Rogers,J
6736 Advanced Geophysical Methods	3.0- 3.0		LEC	1A	CANCELLED				
Prerequisite: Graduate Standing.									
6782 Surface Waves (MASW) and Ground Penetrating Radar (GPR)	3.0- 3.0	73418	LAB	3A	CANCELLED				
	3.0- 3.0		LEC	1A	Th	04:00 - 06:30 pm	BCH	00213	Anderson,N
	3.0- 3.0	71688	LAB	3A	Th	ARR	ARR		Anderson,N
Prerequisites: Geo Eng 1150 or Civ Eng 3715 or equivalent, and graduate standing									

Geology

1120 Evolution Of The Earth	3.0- 3.0	70547	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00216	Oboh Ikuenobe,F
Prerequisites: Recommend Geo Eng 1150 or Geology 1110 or Bio Sci 1113 but not required.									
Field Trip Required									
1129 Evolution of the Earth Laboratory	1.0- 1.0	71222	LAB	3A	T	02:00 - 04:45 pm	MCNT	00312	Oboh Ikuenobe,F
Prerequisite: Preceded or accompanied by Geology 1120									
	1.0- 1.0	71610	LAB	3B	W	01:00 - 03:50 pm	MCNT	00312	Oboh Ikuenobe,F
2611 Physical Mineralogy And Petrology	3.0- 3.0		LEC	1A	MW	05:00 - 05:50 pm	MCNT	00204	Tucker,R
Prerequisites: Chem 1310 and Chem 1319 or Chem 1351; Geo Eng 1150 or Geology 1110.									
	3.0- 3.0	71810	LAB	3A	T	04:00 - 05:50 pm	MCNT	00108	Locmelis,M
	3.0- 3.0	71306	LAB	3B	W	02:00 - 03:50 pm	MCNT	00108	Locmelis,M
	3.0- 3.0	70549	LAB	3C	Th	02:00 - 03:50 pm	MCNT	00108	Locmelis,M
	3.0- 3.0	71078	LAB	3D	Th	04:00 - 05:50 pm	MCNT	00108	
2620 Igneous And Metamorphic Petrology	4.0- 4.0		LEC	1A	MWF	09:00 - 09:50 am	MCNT	00265	Hogan,J
Prerequisite: Geology 2610.									
	4.0- 4.0	70551	LAB	3A	Th	01:00 - 03:50 pm	MCNT	00308	Hogan,J
Field Trip Required									
	4.0- 4.0	71060	LAB	3B	W	01:00 - 03:50 pm	MCNT	00308	Hogan,J
Field Trip Required									
3000 Special Problems	0.0- 6.0	70552	IND	6A	ARR	ARR	ARR		Hogan,J
3410 Introduction To Geochemistry	3.0- 3.0	70555	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00204	Wronkiewicz,D
Prerequisite: Chem 1310.									
3620 Stratigraphy And Sedimentation	3.0- 3.0	70553	LEC	1A	MWF	11:00 - 11:50 am	H-SS	000G5	Oboh Ikuenobe,F
Prerequisite: Geology 2620 or Geology 2611.									
3629 Stratigraphy Lab	1.0- 1.0	70554	LAB	3A	F	01:00 - 03:50 pm	MCNT	00265	Obrist Famer,J
Prerequisite: Concurrent with Geology 3620.									
4000 Special Problems	0.0- 6.0	70556	IND	6A	ARR	ARR	ARR		Borrok,D
	0.0- 6.0	70557	IND	6B	ARR	ARR	ARR		Hogan,J
	0.0- 6.0	70558	IND	6C	ARR	ARR	ARR		Locmelis,M
	0.0- 6.0	71160	IND	6D	ARR	ARR	ARR		Oboh Ikuenobe,F
	0.0- 6.0	72578	IND	6E	ARR	ARR	ARR		Obrist Famer,J
	0.0- 6.0	72628	IND	6F	ARR	ARR	ARR		Wronkiewicz,D
	0.0- 6.0	72844	IND	6G	ARR	ARR	ARR		Yang,W
4010 Seminar	0.5- 0.5	73235	LEC	1A	W	04:00 - 04:50 pm	MCNT	00206	Borrok,D
Prerequisite: Senior standing.									
4085 Internship	3.0- 3.0	72969	IND	6A	ARR	ARR	ARR		Borrok,D
Prerequisite: Advisor's approval.									
	3.0- 3.0	72993	IND	6B	ARR	ARR	ARR		Locmelis,M
4099 Undergraduate Research	0.0- 6.0	71042	IND	6A	ARR	ARR	ARR		Borrok,D
	0.0- 6.0	70559	IND	6B	ARR	ARR	ARR		Hogan,J
	0.0- 6.0	70560	IND	6C	ARR	ARR	ARR		Locmelis,M
	0.0- 6.0	70561	IND	6D	ARR	ARR	ARR		Oboh Ikuenobe,F
	0.0- 6.0	72579	IND	6E	ARR	ARR	ARR		Obrist Famer,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	72700	IND	6F	ARR	ARR	ARR		Wronkiewicz,D
	0.0- 6.0	72701	IND	6G	ARR	ARR	ARR		Yang,W
4310 Remote Sensing Technology	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	MCNT	000B14	Smith,R
Prerequisite: Geology 1110. (Co-listed with Geo Eng 5144)	3.0- 3.0	71247	LAB	3A	Th	02:00 - 05:00 pm	BCH	00313	Smith,R
4521 Ore Microscopy	3.0- 3.0		LEC	1A	Th	11:00 - 12:40 pm	MCNT	00210	Locmelis,M
Prerequisite: Geology 2610.	3.0- 3.0	73422	LAB	3A	M	12:30 - 02:50 pm	MCNT	00308	Locmelis,M
	3.0- 3.0	73423	LAB	3B	T	01:00 - 03:50 pm	MCNT	00308	Locmelis,M
4841 Geological Field Studies	3.0- 3.0	72100	LEC	1A	W	05:00 - 06:50 pm	MCNT	00124	Wronkiewicz,D
5000 Special Problems	0.0- 6.0	71043	IND	6A	ARR	ARR	ARR		Borrok,D
	0.0- 6.0	70562	IND	6B	ARR	ARR	ARR		Hogan,J
	0.0- 6.0	70563	IND	6C	ARR	ARR	ARR		Locmelis,M
	0.0- 6.0	70564	IND	6D	ARR	ARR	ARR		Oboh Ikuenobe,F
	0.0- 6.0	72580	IND	6E	ARR	ARR	ARR		Yang,W
	0.0- 6.0	72702	IND	6F	ARR	ARR	ARR		Borrok,D
5040 Oral Examination	0.0- 0.0	70569	IND	6A	ARR	ARR	ARR		Hogan,J
Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.									
5085 Internship	3.0- 3.0	73096	IND	6A	ARR	ARR	ARR		Hogan,J
									Prerequisite: Graduate Standing.
5099 Research	0.0-15.0	70568	IND	6A	ARR	ARR	ARR		Borrok,D
	0.0-15.0	70565	IND	6B	ARR	ARR	ARR		Hogan,J
	0.0-15.0	70566	IND	6C	ARR	ARR	ARR		Locmelis,M
	0.0-15.0	70567	IND	6D	ARR	ARR	ARR		Oboh Ikuenobe,F
	0.0-15.0	72581	IND	6E	ARR	ARR	ARR		Obirst Famer,J
	0.0-15.0	72703	IND	6F	ARR	ARR	ARR		Yang,W
5311 Depositional Systems	3.0- 3.0	71055	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00243	Yang,W
Prerequisites: Geology 1110 or Geo Eng 1150; accompanied or preceded by both Geology 3310 and Geology 3620.									
5611 Granites And Rhyolites	4.0- 4.0	73236	LEC	1A	TTh	08:00 - 09:20 am	MCNT	00308	Hogan,J
Prerequisite: Geology 2620.									Prerequisite
	4.0- 4.0	73237	LAB	3A	M	03:00 - 05:00 pm	MCNT	00308	Hogan,J
									Prerequisite
6040 Oral Examination	0.0- 0.0	72220	IND	6A	ARR	ARR	ARR		Oboh Ikuenobe,F
6050 Continuous Registration	1.0- 1.0	71967	IND	6A	ARR	ARR	ARR		Oboh Ikuenobe,F
6211 Geodynamics	3.0- 3.0	72874	LEC	1A	M	02:00 - 04:50 pm	MCNT	00130	Eckert,A
Prerequisites: Math 2222 and Geology 3310. (Co-listed with Pet Eng 6711)									
6331 Geotectonics	3.0- 3.0	71296	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00206	Gao,S
Prerequisite: Geology 3310.									
6621 Clastic Sedimentary Petrology	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	MCNT	00243	Yang,W
Prerequisite: Geology 3620.	3.0- 3.0	73426	LAB	3A	ARR	ARR	ARR		Yang,W
6651 Granite and Rhyolite Petrogenesis	4.0- 4.0	73238	LEC	1A	TTh	08:00 - 09:20 am	MCNT	00308	Hogan,J
Prerequisite: Geology 2620.									Field Trip Required
	4.0- 4.0	73239	LAB	3A	M	03:00 - 05:00 pm	MCNT	00308	Hogan,J
									Field Trip Required
Geophysics									
4000 Special Problems	0.0- 6.0	70570	IND	6A	ARR	ARR	ARR		Liu,K
Prerequisite: Consent of instructor.	0.0- 6.0	70571	IND	6B	ARR	ARR	ARR		Gao,S
4099 Undergraduate Research	0.0- 6.0	70573	IND	6A	ARR	ARR	ARR		Anderson,N
	0.0- 6.0	70574	IND	6B	ARR	ARR	ARR		Gao,S
	0.0- 6.0	71286	IND	6C	ARR	ARR	ARR		Liu,K
5000 Special Problems	0.0- 6.0	70575	IND	6A	ARR	ARR	ARR		Gao,S
	0.0- 6.0	71297	IND	6B	ARR	ARR	ARR		Liu,K
5040 Oral Examination	0.0- 0.0	70578	IND	6A	ARR	ARR	ARR		Gao,S
Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.									
5096 Global Tectonics	3.0- 3.0	70572	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00206	Gao,S
Prerequisite: Geology 3310.									
5099 Research	0.0-15.0	70576	IND	6A	ARR	ARR	ARR		Gao,S

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5202 Exploration and Development Seismology	0.0-15.0	70577	IND	6B	ARR	ARR	ARR		Liu,K
Prerequisites: Math 1208 or Math 1214; Geology 1110 or Geo Eng 1150.	3.0- 3.0		LEC	1A	TTh	02:00 - 02:50 pm	H-SS	000G7	Liu,K
	3.0- 3.0	71382	LAB	3A	Th	03:00 - 05:00 pm	H-SS	00202	
	3.0- 3.0	73093	LAB	3B	CANCELLED				
5782 Environmental and Engineering Geophysics	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	MCNT	00243	Anderson,N
Prerequisite: Math 2222. (Co-listed with Geo Eng 5782)	3.0- 3.0	71397	LAB	3A	T	01:00 - 03:00 pm	CSF	00G5D	Anderson,N
6000 Special Problems	0.0- 6.0	73424	IND	6A	ARR	ARR	ARR		Liu,K
6050 Continuous Registration	1.0- 1.0	70579	IND	6A	ARR	ARR	ARR		Gao,S
Doctoral students only. Graduate Office permission required.									
6231 Advanced Seismic Data Processing	3.0- 3.0		LEC	1A	W	02:00 - 03:50 pm	MCNT	000B14	Gao,S
Prerequisites: Geophys 4251, 5231, Stat 3115.	3.0- 3.0	72056	LAB	3A	ARR	ARR	ARR		Gao,S
6241 The Theory of Elastic Waves	3.0- 3.0		LEC	1A	ARR	ARR	ARR		Liu,K
Prerequisites: Geophys 3210.	3.0- 3.0	72976	LAB	3A	ARR	ARR	ARR		Liu,K

German

1102 Elementary German II	4.0- 4.0	72523	LEC	1A	Th	10:00 - 10:50 am	SHNK	00305	
Prerequisite: German 1101.			LEC	1A	MWF	10:00 - 10:50 am	SHNK	00305	Cohen,G
2170 Masterpieces Of German Literature	3.0- 3.0	72524	LEC	1A	MWF	01:00 - 01:50 pm	CH	00103	Cohen,G
Prerequisite: German 1180.									
4000 Special Problems	0.0- 6.0	72890	IND	6A	ARR	ARR	ARR		Cohen,G

History

1100 Early Western Civilization	3.0- 3.0	71239	LEC	1A	TTh	09:30 - 10:45 am	TMH	00254	Bruening,M
			MOTR WCIV 101: Western Civilization I						
1200 Modern Western Civilization	3.0- 3.0	71736	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00101	Sheppard,K
			MOTR WCIV 102: Western Civilization II						
	3.0- 3.0	72411	LEC	1B	MWF	11:00 - 11:50 am	H-SS	00103	Behrendt,A
			MOTR WCIV 102: Western Civilization II						
	3.0- 3.0	73208	LEC	1C	MWF	01:00 - 01:50 pm	EMGT	00103	Behrendt,A
			MOTR WCIV 102: Western Civilization II						
1300 American History To 1877	3.0- 3.0	71737	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00101	Pope,J
			MOTR HIST 101: American History I						
	3.0- 3.0	72412	LEC	1B	MW	02:00 - 02:50 pm	H-SS	00201	DeWitt,P
			MOTR HIST 101: American History I						
1310 American History Since 1877	3.0- 3.0	72001	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00103	Ahmad,D
			MOTR HIST 102: American History II						
	3.0- 3.0	72414	LEC	1B	TTh	02:00 - 03:15 pm	TMH	00249	Schramm,J
			MOTR HIST 102: American History II						
	3.0- 3.0	71076	LEC	1C	TTh	03:30 - 04:45 pm	H-SS	00101	Ketcherside,J
			MOTR HIST 102: American History II						
	3.0- 3.0	72415	LEC	1D	MWF	11:00 - 11:50 am	H-SS	00101	Beattie,M
			MOTR HIST 102: American History II						
	3.0- 3.0	72413	LEC	1E	TTh	12:30 - 01:45 pm	H-SS	00201	Croft,D
			MOTR HIST 102: American History II						
2110 World Regional Geography	3.0- 3.0	71527	LEC	1A	ARR	ARR	ARR		Rivera,J
			MOTR GEOG 101: World Regional Geography						
2224 Making Of Modern Russia	3.0- 3.0	73207	LEC	1A	TTh	12:30 - 01:45 pm	H-SS	00103	Behrendt,A
Prerequisite: History 1200.			Prerequisite						
2510 History of Technology	3.0- 3.0	72775	LEC	1A	TTh	09:30 - 10:45 am	H-SS	000G7	Schramm,J
Prerequisite: History 1100 or 1200 or 1300 or 1310.			UM Shared Course-Secondary						
	3.0- 3.0	73209	LEC	1B	TTh	11:00 - 12:15 pm	H-SS	000G8	Schramm,J
			Prerequisite						
3001 Special Topics	3.0- 3.0	73212	LEC	1A	MWF	11:00 - 11:50 am	BCH	00215	DeWitt,P
Prerequisites: History 1200 or History 1310.			WWI Glob Perspective						
	3.0- 3.0	73211	LEC	1B	TTh	02:00 - 03:15 pm	H-SS	00203	Pope,J
			Slavery and Abolition in Atlan						
	3.0- 3.0	73493	LEC	1C	TTh	09:30 - 10:45 am	ROLLA	000G4	
			Folk Tech and Material Culture						
3125 Ancient Rome	3.0- 3.0	73210	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00104	Bruening,M
Prerequisite: History 1100.			Prerequisite						
3443 The American Military Experience	3.0- 3.0	73213	LEC	1A	TTh	02:00 - 03:15 pm	EECH	00112	Ketcherside,J
Prerequisite: History 1200 or History 1300 or History 1310 or Pol Sci 1200.			Prerequisite						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3530 History of Science Prerequisite: History 1100 or History 1200 or History 1300 or History 1310.	3.0- 3.0	72609	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00201	Sheppard,K
			Communication Emphasized						
	3.0- 3.0	72689	LEC	1B	MWF	11:00 - 11:50 am	H-SS	00201	Sheppard,K
			Communication Emphasized						
3763 Contemporary Political Thought Prerequisite: History 1300 or History 1310 or Pol Sci 1200. (Co-listed with Pol Sci 3763)	3.0- 3.0	73214	LEC	1A	W	06:00 - 08:45 pm	H-SS	00101	Meagher,M
			Prerequisite						
4000 Special Problems Prerequisite: Consent of instructor.	0.0- 6.0	70580	IND	6A	ARR	ARR	ARR		Ahmad,D
	0.0- 6.0	70581	IND	6B	ARR	ARR	ARR		DeWitt,P
	0.0- 6.0	70582	IND	6C	ARR	ARR	ARR		Fogg,S
	0.0- 6.0	70583	IND	6D	ARR	ARR	ARR		Huber,P
	0.0- 6.0	71626	IND	6E	ARR	ARR	ARR		McManus,J
	0.0- 6.0	71691	IND	6F	ARR	ARR	ARR		Schramm,J
	0.0- 6.0	73035	IND	6G	ARR	ARR	ARR		Sheppard,K
	0.0- 6.0	73553	IND	6H	ARR	ARR	ARR		Bruening,M
4085 Internship Prerequisites: Senior status; must have completed 24 hours in major.	0.0- 6.0	70584	IND	6A	ARR	ARR	ARR		Huber,P
4097 Senior Project Prerequisites: History 2790 and senior standing.	3.0- 3.0	71686	LEC	1A	ARR	ARR	ARR		Fogg,S
4246 War and Society in Twentieth-Century Europe Prerequisite: History 1200 or History 1310.	3.0- 3.0	73217	LEC	1A	TTh	09:30 - 10:45 am	H-SS	00203	Fogg,S
			Prerequisite						
4470 American Environmental History Prerequisite: History 1200 or History 1300 or History 1310.	3.0- 3.0	73216	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00103	Ahmad,D
			Prerequisite						

Info Science & Technology

1552 Implementing Information Systems: Data Perspective Prerequisite: A grade of "C" or better in IS&T 1551.	3.0- 3.0	70588	LEC	1A	MWF	09:00 - 09:50 am	TMH	00251	Hilgers,M
1561 Algorithms and Programming with Java	3.0- 3.0	73427	LEC	1A	MWF	09:00 - 09:50 am	MCNutt	234	Bates,C
1562 Java and Data Structures Prerequisites: IS&T 1561.	3.0- 3.0	73428	LEC	1A	TTh	12:30 - 01:45 pm	MCNT	00114	Oswald,N
1750 Introduction to Management Information Systems	3.0- 3.0		LEC	1A	MF	01:00 - 01:50 pm	TMH	00251	Chiu,Y
	3.0- 3.0	70587	LAB	3A	W	01:00 - 01:50 pm	TMH	00251	Chiu,Y
3000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	70591	IND	6A	ARR	ARR	ARR		Flachsbart,B
	0.0- 6.0	70981	IND	6B	ARR	ARR	ARR		Hilgers,M
	0.0- 6.0	71088	IND	6C	ARR	ARR	ARR		Nah,F
	0.0- 6.0	71158	IND	6D	ARR	ARR	ARR		Yu,W
3131 Computing Internals and Operating Systems Prerequisite: A grade of "C" or better in either IS&T 1552 or Comp Sci 1575.	3.0- 3.0	70589	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00254	Flachsbart,B
3333 Data Networks and Information Security Prerequisites: IS&T 1750; IS&T 1552 or Comp Sci 1510.	3.0- 3.0	72545	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00313	Twyman,N
3343 Systems Analysis Prerequisite: IS&T 3423.	3.0- 3.0	71005	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00313	Yu,W
4099 Undergraduate Research	0.0- 6.0	70592	IND	6A	ARR	ARR	ARR		Hall,R
	0.0- 6.0	71395	IND	6B	ARR	ARR	ARR		Lea,B
4444 Introduction to Data Warehouses Prerequisites: IS&T 3423.	3.0- 3.0	72996	LEC	1A	TTh	02:00 - 03:15 pm	FUL	00107A	Yu,W
4641 Digital Commerce and the Internet of Things Prerequisites: IS&T 1750 and at least Sophomore standing.	3.0- 3.0	70590	LEC	1A	MWF	01:00 - 01:50 pm	CS	00209	Bates,C
4654 Web and Digital Media Development	3.0- 3.0	71348	LEC	1A	TTh	03:30 - 04:45 pm	CSF	00114	Hall,R
5000 Special Problems	0.0- 6.0	71435	IND	6A	ARR	ARR	ARR		Hilgers,M
	0.0- 6.0	71436	IND	6B	ARR	ARR	ARR		Lea,B
	0.0- 6.0	71609	IND	6C	ARR	ARR	ARR		Yu,W
5099 Research	0.0-15.0	70984	IND	6A	ARR	ARR	ARR		Flachsbart,B

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	0.0-15.0	70985	IND	6B	ARR	ARR	ARR		Hall,R
	0.0-15.0	70986	IND	6C	ARR	ARR	ARR		Hilgers,M
	0.0-15.0	70987	IND	6D	ARR	ARR	ARR		Lea,B
	0.0-15.0	71145	IND	6E	ARR	ARR	ARR		Nah,F
	0.0-15.0	71232	IND	6F	ARR	ARR	ARR		Siau,K
	0.0-15.0	71918	IND	6G	ARR	ARR	ARR		Twyman,N
	0.0-15.0	72546	IND	6H	ARR	ARR	ARR		Yu,W
5131 Foundations of Computer Architecture Prerequisites: Graduate Standing, strong programming knowledge.	3.0- 3.0	72653	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00254	Flachsbart,B
5420 Business Analytics and Data Science Prerequisites: Calculus, Statistics, and Programming knowledge.	3.0- 3.0	72098	LEC	1A	MWF	11:00 - 11:50 am	FUL	00107A	Hilgers,M
5520 Data Science and Machine Learning with Python Prerequisites: One of Stat 3111, Stat 3113, Stat 3115, Stat 3117 and either IS&T 1552 or Comp Sci 1510; for Graduate Students: Graduate Standing and Knowledge of Calculus, Statistics, and Programming.	3.0- 3.0	72654	LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00B12A	Chen,L
5535 Machine Learning Algorithms and Applications Prerequisites: One of Stat 3111, Stat 3113, Stat 3115, Stat 3117 and either IS&T 1552 or Comp Sci 1510; or Graduate Standing with knowledge of calculus, statistics, and programming.	3.0- 3.0	73163	LEC	1A	MWF	02:00 - 02:50 pm	LIB	000G14	Chen,L
5885 Human-Computer Interaction Prerequisite: Psych 1101.	3.0- 3.0	71996	LEC	1A	MWF	02:00 - 02:50 pm	CS	00209	Bates,C
5887 Human-Computer Interaction Evaluation Prerequisite: Preceded or accompanied by IS&T 5885.	3.0- 3.0		LEC	1A	ARR	ARR	ARR		Hall,R
	3.0- 3.0	71007	LAB	3A	ARR	ARR	ARR		Hall,R
6336 Foundations of Internet Computing Prerequisite: IS&T MS entrance requirements, including solid programming knowledge.	3.0- 3.0	72228	LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00B12B	Twyman,N
6444 Essentials of Data Warehouses Prerequisite: IS&T 3423 or equivalent relational database experience. (Co-listed with ERP 6444)	3.0- 3.0	71350	LEC	1A	TTh	02:00 - 03:15 pm	FUL	00107A	Yu,W
6445 Database Marketing Prerequisite: Statistics understanding, programming understanding, familiarity with spreadsheets.	3.0- 3.0	71618	LEC	1A	W	04:00 - 06:30 pm	EECH	00239	Fletcher,K
6641 Advanced Digital Commerce and the Internet of Things Prerequisites: Knowledge of management information systems.	3.0- 3.0	71869	LEC	1A	MWF	01:00 - 01:50 pm	CS	00209	Bates,C
6654 Advanced Web and Digital Media Development	3.0- 3.0	72097	LEC	1A	TTh	03:30 - 04:45 pm	CSF	00114	Hall,R

Marketing

3000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	71917	IND	6A	ARR	ARR	ARR		Stanley,S
3110 Marketing	3.0- 3.0	71364	LEC	1A	TTh	11:00 - 12:15 pm	IDE	00105	Fukawa,N
5001 Special Topics Prerequisites: BUS 6622 or both MKT 3110 and STAT 3111.	3.0- 3.0	73413	LEC	1A	TTh	02:00 - 03:15 pm	MCNT	00243	Fukawa,N
									Marketing Analytics
5099 Research Prerequisite: Consent of instructor required.	0.0- 9.0	71599	IND	6A	ARR	ARR	ARR		Fukawa,N

Materials Science & Eng

4850	Fundamentals Of Protective Coating I Prerequisite: Chem 1320. (Co-listed with Chem 4850)	3.0- 3.0	72854	LEC	1A	CANCELLED				
5000	Special Problems	0.0- 6.0	71183	IND	6A	ARR	ARR	ARR		Hilmas,G
		0.0- 6.0	71236	IND	6B	ARR	ARR	ARR		Miller,F
		0.0- 6.0	71434	IND	6C	ARR	ARR	ARR		Moats,M
5001	Special Topics Prerequisites: Senior Standing	3.0- 3.0	73370	LEC	1A	T	08:00 - 10:45 am	BCH	00316	Dogan,F
										Molecular Eng & Soft Nanomater
5010	Seminar	0.0- 6.0	71139	RSD	2A	Th	03:00 - 04:50 pm	MCNT	00204	Moats,M
5040	Oral Examination	0.0- 0.0	71420	IND	6A	ARR	ARR	ARR		Schwartz,R
5210	Tissue Engineering I Prerequisite: Senior standing. (Co-listed with Bio Sci 5240)	3.0- 3.0	71861	LEC	1A	TTh	09:30 - 10:45 am	CH	00103	Semon,J
5230	Energy Materials Prerequisite: Senior standing.	3.0- 3.0	71714	LEC	1A	M	07:00 - 09:30 pm	BERTELS	00B12A	Dogan,F
5850	Introduction to Coating Chemistry Prerequisite: Chem 1320 or Met Eng 1210. (Co-listed with Chem 5850)	3.0- 3.0	72855	LEC	1A	CANCELLED				
6000	Special Problems	0.0- 6.0	72210	IND	6A	ARR	ARR	ARR		Huebner,W
6001	Special Topics Prerequisites: Graduate standing.	3.0- 3.0	73371	LEC	1A	T	08:00 - 10:45 am	BCH	00316	Dogan,F
										Adv. Molecular Eng & Soft Nano
6050	Continuous Registration	1.0- 1.0	71421	IND	6A	ARR	ARR	ARR		Moats,M
6099	Research	0.0-15.0	72369	IND	6A	ARR	ARR	ARR		Bartlett,L
		0.0-15.0	72370	IND	6B	ARR	ARR	ARR		
		0.0-15.0	72371	IND	6C	ARR	ARR	ARR		Brow,R
		0.0-15.0	72372	IND	6D	ARR	ARR	ARR		Dogan,F
		0.0-15.0	72373	IND	6E	ARR	ARR	ARR		Fahrenheitz,W
		0.0-15.0	72374	IND	6F	ARR	ARR	ARR		Hilmas,G
		0.0-15.0	72375	IND	6G	ARR	ARR	ARR		Huebner,W
		0.0-15.0	72376	IND	6H	ARR	ARR	ARR		Kumar,A
		0.0-15.0	72377	IND	6J	ARR	ARR	ARR		Moats,M
		0.0-15.0	72378	IND	6K	ARR	ARR	ARR		Nath,M
		0.0-15.0	72379	IND	6L	ARR	ARR	ARR		Newkirk,J
		0.0-15.0	72380	IND	6M	ARR	ARR	ARR		Lipke,D
		0.0-15.0	72381	IND	6N	ARR	ARR	ARR		O'Malley,R
		0.0-15.0	72382	IND	6P	ARR	ARR	ARR		Schlesinger,M
		0.0-15.0	72383	IND	6Q	ARR	ARR	ARR		Schwartz,R
		0.0-15.0	72384	IND	6R	ARR	ARR	ARR		Van Aken,D
		0.0-15.0	72451	IND	6T	ARR	ARR	ARR		Wen,H
		0.0-15.0	72530	IND	6U	ARR	ARR	ARR		Zhou,C
		0.0-15.0	72643	IND	6V	ARR	ARR	ARR		
		0.0-15.0	72802	IND	6W	ARR	ARR	ARR		
		0.0-15.0	73070	IND	6X	ARR	ARR	ARR		
		0.0-15.0	73584	IND	6Y	ARR	ARR	ARR		Watts,J
6120	Thermodynamics and Phase Equilibria Prerequisite: Graduate standing, or undergraduate standing with instructor and advisor approval.	3.0- 3.0	72803	LEC	1A	MWF	09:00 - 09:50 am	EMGT	00201	Fahrenheitz,W
6130	Kinetic Theory for Materials Prerequisite: Graduate standing, or undergraduate standing with instructor and advisor approval.	3.0- 3.0	72064	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00245	O'Malley,R
6210	Tissue Engineering II Prerequisite: Graduate standing. (Co-listed with Bio Sci 6240)	3.0- 3.0	71863	LEC	1A	TTh	09:30 - 10:45 am	CH	00103	Semon,J
6220	Advanced Energy Materials Prerequisite: Graduate standing.	3.0- 3.0	71715	LEC	1A	M	07:00 - 09:30 pm	BERTELS	00B12A	Dogan,F

Mathematics

1000	Special Problems	0.0- 6.0	73105	IND	6A	ARR	ARR	ARR		Insall,E
1103	Fundamentals Of Algebra Prerequisite: Entrance requirements.	3.0- 3.0	71187	LEC	1A	MWF	11:00 - 11:50 am	TMH	00295	Bailey,H
1120	College Algebra Prerequisite: By placement examination.	5.0- 5.0	70593	LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00B10	Fitch,S

MOTR MATH 130: Pre-Calculus Algebra

				LEC 1A	T	12:30 - 01:20 pm	BERTELS	00B12A			
				MOTR MATH 130: Pre-Calculus Algebra							
				LEC 1A	ARR	ARR	ARR				
				MOTR MATH 130: Pre-Calculus Algebra							
5.0- 5.0	71467			LEC 1B	MWF	10:00 - 10:50 am	BERTELS	00B10	Fitch,S		
				MOTR MATH 130: Pre-Calculus Algebra							
				LEC 1B	T	01:30 - 02:20 pm	BERTELS	00B12A			
				MOTR MATH 130: Pre-Calculus Algebra							
				LEC 1B	ARR	ARR	ARR				
				MOTR MATH 130: Pre-Calculus Algebra							
5.0- 5.0	71186			LEC 1C	MWF	10:00 - 10:50 am	BERTELS	00B10	Fitch,S		
				MOTR MATH 130: Pre-Calculus Algebra							
				LEC 1C	T	02:30 - 03:20 pm	BERTELS	00B12A			
				MOTR MATH 130: Pre-Calculus Algebra							
				LEC 1C	ARR	ARR	ARR				
				MOTR MATH 130: Pre-Calculus Algebra							
5.0- 5.0	71998			LEC 1D	MWF	10:00 - 10:50 am	BERTELS	00B10	Fitch,S		
				MOTR MATH 130: Pre-Calculus Algebra							
				LEC 1D	Th	12:30 - 01:20 pm	TMH	00250			
				MOTR MATH 130: Pre-Calculus Algebra							
				LEC 1D	ARR	ARR	ARR				
				MOTR MATH 130: Pre-Calculus Algebra							
5.0- 5.0	71999			LEC 1E	MWF	10:00 - 10:50 am	BERTELS	00B10	Fitch,S		
				MOTR MATH 130: Pre-Calculus Algebra							
				LEC 1E	Th	01:30 - 02:20 pm	BERTELS	00B12B			
				MOTR MATH 130: Pre-Calculus Algebra							
				LEC 1E	ARR	ARR	ARR				
				MOTR MATH 130: Pre-Calculus Algebra							
5.0- 5.0	72000			LEC 1F	MWF	10:00 - 10:50 am	BERTELS	00B10	Fitch,S		
				MOTR MATH 130: Pre-Calculus Algebra							
				LEC 1F	Th	02:30 - 03:20 pm	BERTELS	00B12B			
				MOTR MATH 130: Pre-Calculus Algebra							
				LEC 1F	ARR	ARR	ARR				
				MOTR MATH 130: Pre-Calculus Algebra							
5.0- 5.0	73098			LEC 1G	CANCELLED						
5.0- 5.0	73099			LEC 1H	CANCELLED						
5.0- 5.0	73100			LEC 1J	CANCELLED						
5.0- 5.0	73101			LEC 1K	CANCELLED						
5.0- 5.0	73102			LEC 1L	CANCELLED						
1140	College Algebra			3.0- 3.0	70594	LEC 1A	MTWThF	08:00 - 08:50 am	CH	00104	
	Prerequisite: By placement examination. Class will meet daily Jan. 22 through March 12. Final exam Wed., March 13th 4:00-6:00 pm.										
1160	Trigonometry			2.0- 2.0	70597	LEC 1A	ARR	ARR	ARR		
	Prerequisite: Math 1120 or 1140 with a grade of "C" or better; or by placement exam.										
				2.0- 2.0	70595	LEC 1C	MWF	08:00 - 08:50 am	TMH	00254	
	Sections C, D, E, F, G, and H meet MWF with final exam Thu., Apr. 18th 4:00-6:00 pm. Sections C, D, E, F, G, and H begin Mon., Feb. 4th and section A begins Tue., Mar. 19th. Section A meets daily until the end of the semester.										
				2.0- 2.0	70596	LEC 1D	MWF	09:00 - 09:50 am	CSF	00G5E	
	Sections C, D, E, F, G, and H meet MWF with final exam Thu., Apr. 18th 4:00-6:00 pm. Sections C, D, E, F, G, and H begin Mon., Feb. 4th and section A begins Tue., Mar. 19th. Section A meets daily until the end of the semester.										
						MOTR MATH 150: Pre-Calculus					

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	2.0- 2.0	71190	LEC	1E	MWF	10:00 - 10:50 am	BCH	00121	
									Sections C, D, E, F, G, and H meet MWF with final exam Thu., Apr. 18th 4:00-6:00 pm. Sections C, D, E, F, G, and H begin Mon., Feb. 4th and section A begins Tue., Mar. 19th. Section A meets daily until the end of the semester.
	2.0- 2.0	71191	LEC	1F	MWF	01:00 - 01:50 pm	BCH	00101	
									Sections C, D, E, F, G, and H meet MWF with final exam Thu., Apr. 18th 4:00-6:00 pm. Sections C, D, E, F, G, and H begin Mon., Feb. 4th and section A begins Tue., Mar. 19th. Section A meets daily until the end of the semester.
	2.0- 2.0	71914	LEC	1G	MWF	01:00 - 01:50 pm	EECH	00101	
									Sections C, D, E, F, G, and H meet MWF with final exam Thu., Apr. 18th 4:00-6:00 pm. Sections C, D, E, F, G, and H begin Mon., Feb. 4th and section A begins Tue., Mar. 19th. Section A meets daily until the end of the semester.
	2.0- 2.0	72190	LEC	1H	MWF	09:00 - 09:50 am	TMH	00250	
									Sections C, D, E, F, G, and H meet MWF with final exam Thu., Apr. 18th 4:00-6:00 pm. Sections C, D, E, F, G, and H begin Mon., Feb. 4th and section A begins Tue., Mar. 19th. Section A meets daily until the end of the semester.
1190	Success for Calculus	4.0- 4.0	LEC	1A	MWF	10:00 - 10:50 am	ROLLA	000G5	
	Prerequisites: Consent of instructor.	4.0- 4.0	LEC	1B	MWF	11:00 - 11:50 am	ROLLA	000G5	
		4.0- 4.0	LEC	1C	MWF	01:00 - 01:50 pm	ROLLA	000G5	
		4.0- 4.0	72593	LAB	3A	ARR	ARR	ARR	
		4.0- 4.0	72595	LAB	3B	ARR	ARR	ARR	
		4.0- 4.0	72597	LAB	3C	ARR	ARR	ARR	
1212	Business Calculus	4.0- 4.0	LEC	1A	MWF	02:00 - 02:50 pm	BCH	00101	Fitch,S
	Prerequisite: A grade of "C" or better in either 1120 or Math 1140; or by placement exam.	4.0- 4.0	70599	LAB	3A	TTh	02:00 - 02:50 pm	BCH	00101
									Fitch,S
1214	Calculus For Engineers I	0.0- 0.0	72267	LEC	1A	MWF	10:00 - 10:50 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., Feb. 12, Mar. 12, Apr. 9, and May 7. Students in Math 1214 must enroll in a lab first then a lecture.
		0.0- 0.0	72268	LEC	1B	MWF	11:00 - 11:50 am	CASTL	LEACH
									All students in Math 1214 are scheduled for exams at 5:00pm on Tues., Feb. 12, Mar. 12, Apr. 9, and May 7. Students in Math 1214 must enroll in a lab first then a lecture.
		0.0- 0.0	72269	LEC	1C	MWF	01:00 - 01:50 pm	BCH	00125
									All students in Math 1214 are scheduled for exams at 5:00pm on Tues., Feb. 12, Mar. 12, Apr. 9, and May 7. Students in Math 1214 must enroll in a lab first then a lecture.
		4.0- 4.0	72270	LAB	3A	T	08:00 - 09:15 am	ROLLA	000G5
									See 'Notes' for Evening Exams
		4.0- 4.0	72271	LAB	3B	T	09:30 - 10:45 am	ROLLA	000G5
									See 'Notes' for Evening Exams
		4.0- 4.0	72272	LAB	3C	T	11:00 - 12:15 pm	ROLLA	000G5
									See 'Notes' for Evening Exams
		4.0- 4.0	72273	LAB	3D	T	12:30 - 01:45 pm	ROLLA	000G5
									See 'Notes' for Evening Exams
		4.0- 4.0	72274	LAB	3E	Th	08:00 - 09:15 am	ROLLA	000G5
									See 'Notes' for Evening Exams

	4.0- 4.0	72275	LAB	3F	Th	09:30 - 10:45 am	ROLLA	000G5	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72276	LAB	3G	Th	11:00 - 12:15 pm	ROLLA	000G5	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72277	LAB	3H	Th	12:30 - 01:45 pm	ROLLA	000G5	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72278	LAB	3J	T	02:00 - 03:15 pm	PHYS	00127	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72279	LAB	3K	T	03:30 - 04:45 pm	PHYS	00127	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72280	LAB	3L	Th	02:00 - 03:15 pm	PHYS	00127	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72281	LAB	3M	Th	03:30 - 04:45 pm	PHYS	00127	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72282	LAB	3N	T	06:00 - 07:15 pm	PHYS	00127	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72283	LAB	3P	T	07:30 - 08:45 pm	PHYS	00127	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72284	LAB	3Q	Th	06:00 - 07:15 pm	PHYS	00127	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72285	LAB	3R	Th	07:30 - 08:45 pm	PHYS	00127	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72422	LAB	3T	Th	08:00 - 09:15 am	CS	00204	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72423	LAB	3U	Th	09:30 - 10:45 am	CS	00204	
			See 'Notes' for Evening Exams						
1215	Calculus For Engineers II	0.0- 0.0	72286	LEC	1A	MWF	09:00 - 09:50 am	BCH	00125
	Prerequisites: Math 1160 and either Math 1208 or Math 1214 both with a grade of "C" or better; or by placement exam.								
			All students in Math 1215 are scheduled for exams at 5:00pm on Thur., Feb. 7, Thur., Feb. 28, Thur., Apr. 4, Thur., May 2. Students in Math 1215 must enroll in a lab first then a lecture. Math 1215 is a clicker class.						
			See 'Notes' for Evening Exams						
	0.0- 0.0	72287	LEC	1B	MWF	10:00 - 10:50 am	BCH	00125	
			All students in Math 1215 are scheduled for exams at 5:00pm on Thur., Feb. 7, Thur., Feb. 28, Thur., Apr. 4, Thur., May 2. Students in Math 1215 must enroll in a lab first then a lecture. Math 1215 is a clicker class.						
			See 'Notes' for Evening Exams						
	0.0- 0.0	72288	LEC	1C	MWF	12:00 - 12:50 pm	TMH	00199	
			All students in Math 1215 are scheduled for exams at 5:00pm on Thur., Feb. 7, Thur., Feb. 28, Thur., Apr. 4, Thur., May 2. Students in Math 1215 must enroll in a lab first then a lecture. Math 1215 is a clicker class.						
			See 'Notes' for Evening Exams						
	4.0- 4.0	72289	LAB	3A	T	08:00 - 09:15 am	CS	00202	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72290	LAB	3B	T	09:30 - 10:45 am	CS	00202	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72291	LAB	3C	Th	08:00 - 09:15 am	CS	00202	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72292	LAB	3D	Th	09:30 - 10:45 am	CS	00202	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72293	LAB	3E	T	08:00 - 09:15 am	CS	00204	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72294	LAB	3F	T	09:30 - 10:45 am	CS	00204	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72295	LAB	3G	T	11:00 - 12:15 pm	CS	00204	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72296	LAB	3H	T	12:30 - 01:45 pm	CS	00204	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72297	LAB	3L	Th	11:00 - 12:15 pm	CS	00204	
			See 'Notes' for Evening Exams						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	4.0- 4.0	72298	LAB	3M	Th	12:30 - 01:45 pm	CS	00204	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72299	LAB	3N	T	02:00 - 03:15 pm	EECH	00111	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72300	LAB	3P	T	03:30 - 04:45 pm	EECH	00103	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72301	LAB	3Q	Th	02:00 - 03:15 pm	EECH	00111	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72302	LAB	3R	Th	03:30 - 04:45 pm	EECH	00103	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72303	LAB	3T	T	02:00 - 03:15 pm	BCH	00216	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72304	LAB	3U	T	03:30 - 04:45 pm	EECH	00111	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72305	LAB	3V	Th	02:00 - 03:15 pm	BCH	00216	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72306	LAB	3W	Th	03:30 - 04:45 pm	EECH	00111	
			See 'Notes' for Evening Exams						
2002	Cooperative Work Training	0.0- 6.0	IND	6A	ARR	ARR	ARR		Clark,S
2222	Calculus with Analytic Geometry III	0.0- 0.0	LEC	1A	MWF	09:00 - 09:50 am	TMH	00199	Brigham,R
	Prerequisites: Math 1215 or Math 1221 with a grade of "C" or better.								
			All students in Math 2222 are scheduled for exams at 5:00pm on Mon., Feb. 18, Mon., Mar. 18, Mon., Apr 15, Mon., May 6. Students in Math 2222 must enroll in lab and lecture.						
			See 'Notes' for Evening Exams						
	0.0- 0.0	72471	LEC	1B	MWF	02:00 - 02:50 pm	TMH	00199	
			All students in Math 2222 are scheduled for exams at 5:00pm on Mon., Feb. 18, Mon., Mar. 18, Mon., Apr 15, Mon., May 6. Students in Math 2222 must enroll in lab and lecture.						
			See 'Notes' for Evening Exams						
	0.0- 0.0	72472	LEC	1C	MWF	01:00 - 01:50 pm	BERTELS	00B10	Morgan,I
			All students in Math 2222 are scheduled for exams at 5:00pm on Mon., Feb. 18, Mon., Mar. 18, Mon., Apr 15, Mon., May 6. Students in Math 2222 must enroll in lab and lecture.						
			See 'Notes' for Evening Exams						
	4.0- 4.0	72473	LAB	3A	T	08:00 - 09:15 am	BCH	00314	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72474	LAB	3B	T	09:30 - 10:45 am	BCH	00216	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72475	LAB	3C	T	11:00 - 12:15 pm	BCH	00314	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72476	LAB	3D	Th	08:00 - 09:15 am	BCH	00314	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72477	LAB	3E	Th	09:30 - 10:45 am	BCH	00216	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72478	LAB	3F	Th	11:00 - 12:15 pm	BCH	00314	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72479	LAB	3G	T	02:00 - 03:15 pm	CSF	00G5E	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72480	LAB	3H	Th	02:00 - 03:15 pm	CSF	00G5E	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72481	LAB	3J	T	08:00 - 09:15 am	CSF	00G5D	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72482	LAB	3K	T	12:30 - 01:45 pm	IDE	00206	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72483	LAB	3L	Th	08:00 - 09:15 am	CSF	00G5D	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72484	LAB	3M	Th	12:30 - 01:45 pm	IDE	00206	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72485	LAB	3N	T	02:00 - 03:15 pm	IDE	00206	
			See 'Notes' for Evening Exams						
	4.0- 4.0	72486	LAB	3P	T	03:30 - 04:45 pm	IDE	00206	
			See 'Notes' for Evening Exams						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	4.0- 4.0	72487	LAB	3Q	Th	02:00 - 03:15 pm	IDE	00206		
			See 'Notes' for Evening Exams							
	4.0- 4.0	72488	LAB	3R	Th	03:30 - 04:45 pm	IDE	00206		
			See 'Notes' for Evening Exams							
3108	Linear Algebra I	3.0- 3.0	70607	LEC	1A	MWF	09:00 - 09:50 am	TMH	00256	Chen-Murphy,X
	Prerequisite: Math 1215 or 1221 or 2222 with a grade of "C" or better.									
		3.0- 3.0	70608	LEC	1B	TTh	02:00 - 03:15 pm	ROLLA	000G5	Insall,E
		3.0- 3.0	70609	LEC	1C	MWF	12:00 - 12:50 pm	BERTELS	00B10	Runnion,P
3109	Foundations Of Mathematics	3.0- 3.0	70610	LEC	1A	MWF	09:00 - 09:50 am	ROLLA	000G5	Charatonik,W
	Prerequisite: Math 1215 or 1221 with a grade of "C" or better.									
3304	Elementary Differential Equations	3.0- 3.0	70601	LEC	1A	MWF	09:00 - 09:50 am	FUL	00227	
	Prerequisite: Math 2222 with a grade of "C" or better.									
			All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 21; Apr. 4; and May 2.							
			See 'Notes' for Evening Exams							
		3.0- 3.0	70602	LEC	1B	MWF	10:00 - 10:50 am	CS	00216	
	All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 21; Apr. 4; and May 2.									
			See 'Notes' for Evening Exams							
		3.0- 3.0	70603	LEC	1C	MWF	10:00 - 10:50 am	CSF	00G5D	
	All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 21; Apr. 4; and May 2.									
			See 'Notes' for Evening Exams							
		3.0- 3.0	70604	LEC	1D	MWF	10:00 - 10:50 am	FUL	00227	
	All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 21; Apr. 4; and May 2.									
			See 'Notes' for Evening Exams							
		3.0- 3.0	70605	LEC	1E	MWF	11:00 - 11:50 am	MCNT	00206	
	All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 21; Apr. 4; and May 2.									
			See 'Notes' for Evening Exams							
		3.0- 3.0	70606	LEC	1F	MWF	01:00 - 01:50 pm	FUL	00227	
	All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 21; Apr. 4; and May 2.									
			See 'Notes' for Evening Exams							
		3.0- 3.0	71509	LEC	1G	MWF	02:00 - 02:50 pm	TMH	00250	
	All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 21; Apr. 4; and May 2.									
			See 'Notes' for Evening Exams							
		3.0- 3.0	71192	LEC	1H	TTh	09:30 - 10:45 am	FUL	00227	
	All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 21; Apr. 4; and May 2.									
			See 'Notes' for Evening Exams							
		3.0- 3.0	71223	LEC	1J	TTh	11:00 - 12:15 pm	TMH	00256	
	All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 21; Apr. 4; and May 2.									
			See 'Notes' for Evening Exams							
		3.0- 3.0	71966	LEC	1K	MWF	11:00 - 11:50 am	CSF	00G5D	
	All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 21; Apr. 4; and May 2.									
		3.0- 3.0	72243	LEC	1L	MWF	09:00 - 09:50 am	CS	00202	
	All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 21; Apr. 4; and May 2.									
4000	Special Problems	0.0- 6.0	70611	IND	6A	ARR	ARR	ARR		Insall,E
		0.0- 6.0	70612	IND	6B	ARR	ARR	ARR		Singler,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4099 Undergraduate Research Prerequisite: Consent of instructor.	0.0- 6.0	71401	IND	6A	ARR	ARR	ARR		Charatonik,W
	0.0- 6.0	71596	IND	6B	ARR	ARR	ARR		Insall,E
	0.0- 6.0	71904	IND	6C	ARR	ARR	ARR		Zhang,Y
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	71269	LEC	1A	MWF	02:00 - 02:50 pm	ROLLA	000G5	
									Communication Emphasized
4211 Advanced Calculus II Prerequisite: Math 4209.	3.0- 3.0	70614	LEC	1A	MWF	02:00 - 02:50 pm	CSF	00G5D	Grow,D
4530 Topics In Geometry Prerequisites: MATH 3108.	3.0- 3.0	70617	LEC	1A	MWF	08:00 - 08:50 am	ROLLA	000G4	Chen-Murphy,X
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	70624	IND	6A	ARR	ARR	ARR		
5107 Combinatorics And Graph Theory Prerequisite: Comp Sci 1200 or Math 3109.	3.0- 3.0	70613	LEC	1A	MWF	10:00 - 10:50 am	CSF	00G5E	Brigham,R
5108 Linear Algebra II Prerequisite: Math 3108.	3.0- 3.0	72122	LEC	1A	TTh	03:30 - 04:45 pm	ROLLA	000G5	Insall,E
									Communication Emphasized
5215 Introduction To Real Analysis Prerequisite: Math 4209.	3.0- 3.0	70615	LEC	1A	ARR	ARR	ARR		
5222 Vector And Tensor Analysis Prerequisite: Math 2222; Math 3103 or Math 3108.	3.0- 3.0	73523	LEC	1A	MWF	11:00 - 11:50 am	CS	00205	Grow,D
									Prerequisite
5325 Partial Differential Equations Prerequisite: Math 3304 with a grade of "C" or better.	3.0- 3.0	70616	LEC	1A	MWF	09:00 - 09:50 am	CSF	00G5D	Jiang,N
5530 Topics in Geometry - Graduate Option Prerequisites: MATH 3108.	3.0- 3.0	72489	LEC	1A	MWF	08:00 - 08:50 am	ROLLA	000G4	Chen-Murphy,X
5585 Introduction To Topology Prerequisite: Math 4209.	3.0- 3.0	72389	LEC	1A	MWF	12:00 - 12:50 pm	EMGT	00111	Charatonik,W
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	71199	LEC	1A	MWF	12:00 - 12:50 pm	ROLLA	000G4	Gelles,G
6000 Special Problems	0.0- 6.0	70618	IND	6A	ARR	ARR	ARR		Akin,E
	0.0- 6.0	70619	IND	6B	ARR	ARR	ARR		Insall,E
	0.0- 6.0	71702	IND	6C	ARR	ARR	ARR		Le,V
	0.0- 6.0	71718	IND	6D	ARR	ARR	ARR		Roe,R
6001 Special Topics Prerequisites: Math 5325 or Math 6601 or Math 6602.	3.0- 3.0	73531	LEC	1A	CANCELLED				
6010 Graduate Seminar	1.0- 3.0	71202	RSD	2A	ARR	ARR	ARR		Adekpedjou,A
	1.0- 3.0	71208	RSD	2B	W	12:00 - 12:50 pm	ROLLA	000G5	Bohner,M
	1.0- 3.0	72390	RSD	2C	ARR	ARR	ARR		He,X
	1.0- 3.0	73083	RSD	2D	ARR	ARR	ARR		Adekpedjou,A
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70625	IND	6A	ARR	ARR	ARR		Samaranayake,V
6099 Research	0.0-15.0	70974	IND	6A	ARR	ARR	ARR		Akin,E
	0.0-15.0	70623	IND	6B	ARR	ARR	ARR		Bohner,M
	0.0-15.0	70620	IND	6C	ARR	ARR	ARR		Charatonik,W
	0.0-15.0	70621	IND	6D	ARR	ARR	ARR		Clark,S
	0.0-15.0	70622	IND	6E	ARR	ARR	ARR		Grow,D
	0.0-15.0	71205	IND	6F	ARR	ARR	ARR		He,X
	0.0-15.0	71417	IND	6G	ARR	ARR	ARR		Insall,E
	0.0-15.0	71510	IND	6H	ARR	ARR	ARR		Le,V
	0.0-15.0	71803	IND	6J	ARR	ARR	ARR		Roe,R
	0.0-15.0	71903	IND	6K	ARR	ARR	ARR		Singler,J
	0.0-15.0	71938	IND	6L	ARR	ARR	ARR		Zhang,Y
6106 Introduction to Ring Theory Prerequisite: Math 5105.	3.0- 3.0	72964	LEC	1A	CANCELLED				

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6216 Functions Of A Real Variable II Prerequisite: Must be preceded by Math 6215.	3.0- 3.0	72883	LEC	1A		CANCELLED			
6375 Theory Of Partial Differential Equations Prerequisite: Math 6417.	3.0- 3.0	73524	LEC	1A	MWF	11:00 - 11:50 am	ROLLA	000G4	Han,D
6418 Functional Analysis II Prerequisites: Math 6215 and 6417.	3.0- 3.0	72882	LEC	1A		CANCELLED			
6462 Harmonic Analysis II Prerequisite: Must be preceded by Math 6461.	3.0- 3.0	73522	LEC	1A	TTh	12:30 - 01:45 pm	ROLLA	000G4	Murphy,J
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	73525	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00202	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	73545	LEC	1A	MWF	01:00 - 01:50 pm	CSF	00114	He,X
						UM Shared Course-Primary			
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	73381	LEC	1A	W	07:00 - 09:30 pm	BERTELS	00B12B	Kwasa,B

Mechanical Engineering

1720 Introduction to Engineering Design	0.0- 0.0	70064	LEC	1A	M	08:00 - 08:50 am	BCH	00125	Schmidt,J
									Students must enroll in a lecture and a lab.
	0.0- 0.0	70066	LEC	1B	M	02:00 - 02:50 pm	EECH	00G31	Schmidt,J
									Students must enroll in a lecture and a lab.
	0.0- 0.0	71256	LEC	1C	T	08:00 - 08:50 am	TMH	00199	Schmidt,J
									Students must enroll in a lecture and a lab.
	0.0- 0.0	70068	LEC	1D	T	02:00 - 02:50 pm	BCH	00125	Schmidt,J
									Students must enroll in a lecture and a lab.
	3.0- 3.0	70065	LAB	3A	W	08:00 - 08:50 am	CH	00105	Schmidt,J
									Additional lab time for Software coverage will be by independent study.
	3.0- 3.0	70067	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	71257	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	70069	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	70070	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	70071	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	71944	LAB	3H	F	10:00 - 10:50 am	CH	00105	Schmidt,J
									Additional lab time for Software coverage will be by independent study.
									See 'Notes'-Additional Meeting

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	3.0- 3.0	71175	LAB	3K	F	11:00 - 11:50 am	CH	00105	Schmidt,J	
									Additional lab time for Software coverage will be by independent study.	
									See 'Notes'-Additional Meeting	
	3.0- 3.0	71484	LAB	3L	F	01:00 - 01:50 pm	CH	00105	Schmidt,J	
									Additional lab time for Software coverage will be by independent study.	
									See 'Notes'-Additional Meeting	
	3.0- 3.0	71948	LAB	3M	F	02:00 - 02:50 pm	CH	00105	Schmidt,J	
									Additional lab time for Software coverage will be by independent study.	
									See 'Notes'-Additional Meeting	
2340	Statics and Dynamics	3.0- 3.0	70087	LEC	1A	MWF	03:00 - 03:50 pm	BCH	00213	Buckholtz,K
	Prerequisites: A grade of "C" or better in Physics 1135 or Physics 1111; preceded or accompanied by Math 2222.									
2350	Engineering Mechanics-Dynamics	2.0- 2.0	70088	LEC	1A	TTh	09:30 - 10:20 am	TMH	00199	
	Prerequisites: A grade of "C" or better in each of Civ Eng 2200 and Math 2222.									
2360	Dynamics	3.0- 3.0	71016	LEC	1A	MWF	09:00 - 09:50 am	TMH	00254	Du,X
	Prerequisite: Grade of "C" or better in each of Civ Eng 2200, Math 2222.									
	(Co-listed with Aero Eng 2360)									
2519	Thermodynamics	3.0- 3.0	70636	LEC	1B	MWF	10:00 - 10:50 am	MCNT	00206	Meeks,W
		3.0- 3.0	72238	LEC	1C	MWF	11:00 - 11:50 am	BCH	00124	Meeks,W
		3.0- 3.0	72920	LEC	1D	MWF	01:00 - 01:50 pm	TMH	00199	Gao,J
2527	Thermal Analysis	3.0- 3.0	70639	LEC	1A	TTh	08:00 - 09:15 am	EMGT	00103	
	Prerequisites: Math 1215 or Math 1221; Physics 1135 or Phys 1111.									
2653	Introduction To Manufacturing Processes	3.0- 3.0		LEC	1AA	TTh	11:00 - 11:50 am	TMH	00199	Schmid,K
	Prerequisite: Mech Eng 1720; a grade of "C" or better in Phys 1135 or Phys 1111									
	Lab C will make arrangements to meet 2 hours in an afternoon for the first five weeks.									
		3.0- 3.0	70627	LAB	3A	M	01:00 - 03:30 pm	TMH	00176	Lewis,R
		3.0- 3.0	70628	LAB	3B	M	04:00 - 06:30 pm	TMH	00176	Lewis,R
		3.0- 3.0	71272	LAB	3C	Th	08:15 - 10:45 am	TMH	00176	Lewis,R
										See 'Notes'-Additional Meeting
		3.0- 3.0	70629	LAB	3D	T	12:00 - 02:30 pm	TMH	00176	Lewis,R
		3.0- 3.0	70630	LAB	3E	T	03:00 - 05:30 pm	TMH	00176	Lewis,R
		3.0- 3.0	70631	LAB	3F	W	01:00 - 03:30 pm	TMH	00176	Lewis,R
		3.0- 3.0	71083	LAB	3G	Th	12:00 - 02:30 pm	TMH	00176	Lewis,R
		3.0- 3.0	71185	LAB	3H	Th	03:00 - 05:30 pm	TMH	00176	Lewis,R
		3.0- 3.0	71273	LAB	3J	F	01:00 - 03:30 pm	TMH	00176	Lewis,R
2761	Introduction To Design	3.0- 3.0		LEC	1A	MW	03:00 - 03:50 pm	BCH	00125	Hutcheson,R
	Prerequisites: Mech Eng 1720, Mech Eng 2653, preceded or accompanied by Civ Eng 2200; a grade of "C" or better in each of the following: Math 1214 or Math 1208; Physics 1135 or Physics 1111.									
		3.0- 3.0	71291	LAB	3A	F	01:00 - 01:50 pm	TMH	00200	Hutcheson,R
		3.0- 3.0	71292	LAB	3B	F	02:00 - 02:50 pm	TMH	00200	Hutcheson,R
		3.0- 3.0	71293	LAB	3C	F	03:00 - 03:50 pm	TMH	00200	Hutcheson,R
		3.0- 3.0	72239	LAB	3D	F	12:00 - 12:50 pm	TMH	00200	Hutcheson,R
3002	Cooperative Engineering Training	0.0- 6.0	70632	IND	6A	ARR	ARR	ARR		Nisbett,J
3131	Thermofluid Mechanics I	3.0- 3.0	70641	LEC	1A	TTh	08:00 - 09:15 am	BERTELS	00B10	Duan,L
	Prerequisite: A grade of "C" or better in Mech Eng 2519.									
		3.0- 3.0	70640	LEC	1B	TTh	11:00 - 12:15 pm	IDE	00206	Wang,C
3313	Machine Dynamics	3.0- 3.0	71945	LEC	1B	MWF	11:00 - 11:50 am	TMH	00199	Hutcheson,R
	Prerequisites: A grade of "C" or better in each of the following: Comp Sci 1570 or Comp Sci 1970 or Comp Sci 1971 or Comp Sci 1972; Mech Eng 2360 or Aero Eng 2360; Math 1214 or Math 1208; Math 1215 or Math 1221; Math 2222; Physics 1135 or Physics 1111.									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3411 Modeling and Analysis of Dynamic Systems	3.0- 3.0	70634	LEC	1A	MWF	08:00 - 08:50 am	TMH	00199	Kumar,N
Prerequisites: A grade of "C" or better in each of the following: Comp Sci 1570 or Comp Sci 1970 or Comp Sci 1971 or Comp Sci 1972; Mech Eng 2360 or Aero Eng 2360; Math 1214 or Math 1208; Math 1215 or Math 1221; Math 2222; Math 3304; Physics 1135 or Physics 1111; Physics 2135 or Physics 2111.	3.0- 3.0	70635	LEC	1B	CANCELLED				
3521 Applied Thermodynamics	3.0- 3.0	70637	LEC	1A	CANCELLED				
Prerequisite: A grade of "C" or better in Mech Eng 2519.	3.0- 3.0	71480	LEC	1B	TTh	08:00 - 09:15 am	TMH	00295	Han,D
	3.0- 3.0	72922	LEC	1C	TTh	09:30 - 10:45 am	BERTELS	00B10	Koylu,U
3525 Heat Transfer	3.0- 3.0	71744	LEC	1A	MWF	02:00 - 02:50 pm	EMGT	00103	Homan,K
Prerequisites: A grade of "C" or better in each of Comp Sci 1570 or Comp Sci 1970 or Comp Sci 1971 or Comp Sci 1972, Math 3304, Mech Eng 2519.	3.0- 3.0	70638	LEC	1B	MWF	01:00 - 01:50 pm	PHYS	00104	Yang,X
3653 Manufacturing	3.0- 3.0	70649	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00250	Okafor,A
Prerequisites: Mech Eng 2653, Civ Eng 2211, and a grade of "C" or better in Civ Eng 2210.	3.0- 3.0	72240	LEC	1B	TTh	09:30 - 10:45 am	BCH	00101	Chen,L
3708 Machine Design I	3.0- 3.0	70633	LEC	1A	TTh	11:00 - 12:15 pm	BERTELS	00B10	Nisbett,J
Prerequisites: Mech Eng 2653; accompanied or preceded by Mech Eng 2761; Met Eng 2110 or Aero Eng 3877; and a grade of "C" or better in Civ Eng 2210.	3.0- 3.0	72693	LEC	1B	TTh	12:30 - 01:45 pm	TMH	00256	Dong,X
4000 Special Problems	0.0- 6.0	70658	IND	6A	ARR	ARR	ARR		Hutcheson,R
Prerequisite: Consent of instructor.	0.0- 6.0	71617	IND	6B	ARR	ARR	ARR		Nisbett,J
4099 Undergraduate Research	0.0- 6.0	70663	IND	6A	ARR	ARR	ARR		Balakrishnan,S
Prerequisite: Consent of instructor required.	0.0- 6.0	70664	IND	6B	ARR	ARR	ARR		Bristow,D
	0.0- 6.0	71330	IND	6C	ARR	ARR	ARR		Carroll,D
	0.0- 6.0	70665	IND	6D	ARR	ARR	ARR		Chandrashekhara,K
	0.0- 6.0	71331	IND	6E	ARR	ARR	ARR		Chen,L
	0.0- 6.0	70666	IND	6F	ARR	ARR	ARR		Crosbie,A
	0.0- 6.0	70667	IND	6G	ARR	ARR	ARR		Dharani,L
	0.0- 6.0	70668	IND	6H	ARR	ARR	ARR		Dong,X
	0.0- 6.0	71071	IND	6J	ARR	ARR	ARR		Drallmeier,J
	0.0- 6.0	70669	IND	6K	ARR	ARR	ARR		Du,X
	0.0- 6.0	70670	IND	6L	ARR	ARR	ARR		Duan,L
	0.0- 6.0	70671	IND	6M	ARR	ARR	ARR		Gao,J
	0.0- 6.0	70672	IND	6N	ARR	ARR	ARR		Homan,K
	0.0- 6.0	70673	IND	6P	ARR	ARR	ARR		Isaac,K
	0.0- 6.0	70674	IND	6Q	ARR	ARR	ARR		Kinzel,E
	0.0- 6.0	70675	IND	6R	ARR	ARR	ARR		Koylu,U
	0.0- 6.0	70676	IND	6T	ARR	ARR	ARR		Krishnamurthy,K
	0.0- 6.0	70677	IND	6U	ARR	ARR	ARR		Landers,R
	0.0- 6.0	70678	IND	6V	ARR	ARR	ARR		Leu,M
	0.0- 6.0	70679	IND	6W	ARR	ARR	ARR		Liou,F
	0.0- 6.0	70680	IND	6Y	ARR	ARR	ARR		Midha,A
	0.0- 6.0	70681	IND	6Z	ARR	ARR	ARR		Nisbett,J
	0.0- 6.0	70682	IND	6AA	ARR	ARR	ARR		Okafor,A
	0.0- 6.0	70683	IND	6BB	ARR	ARR	ARR		Pan,H
	0.0- 6.0	71747	IND	6CC	ARR	ARR	ARR		Park,J
	0.0- 6.0	71852	IND	6DD	ARR	ARR	ARR		Stutts,D
	0.0- 6.0	71853	IND	6EE	ARR	ARR	ARR		Tsai,H
	0.0- 6.0	72058	IND	6FF	ARR	ARR	ARR		Wojnar,C
	0.0- 6.0	72059	IND	6GG	ARR	ARR	ARR		Yang,X
	0.0- 6.0	73558	IND	6HH	ARR	ARR	ARR		Han,D
	0.0- 6.0	73564	IND	6JJ	ARR	ARR	ARR		Wang,C
4479 Automatic Control Of Dynamic Systems	3.0- 3.0	70652	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00295	Song,Y
Prerequisite: A grade of "C" or better in Mech Eng 3411.	3.0- 3.0	72619	LEC	1B	MWF	02:00 - 02:50 pm	MCNT	00204	Krishnamurthy,K

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4480 Control System Laboratory Prerequisites: Preceded or accompanied by Mech Eng 4479. Students are scheduled for one exam: time and place to be announced.	1.0- 1.0	70653	LAB	3A	M	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S
			ME 4480 will meet 4:00-4:50 pm in CE 125 Tues and Wed of the first week of classes. Labs begin the second week.						
	1.0- 1.0	71505	LAB	3B	M	06:00 - 08:50 pm	TMH	00216	Balakrishnan,S
			ME 4480 will meet 4:00-4:50 pm in CE 125 Tues and Wed of the first week of classes. Labs begin the second week.						
	1.0- 1.0	70654	LAB	3C	T	09:30 - 12:20 pm	TMH	00216	Balakrishnan,S
			ME 4480 will meet 4:00-4:50 pm in CE 125 Tues and Wed of the first week of classes. Labs begin the second week.						
	1.0- 1.0	70655	LAB	3D	T	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S
			ME 4480 will meet 4:00-4:50 pm in CE 125 Tues and Wed of the first week of classes. Labs begin the second week.						
1.0- 1.0	70656	LAB	3E	W	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S	
		ME 4480 will meet 4:00-4:50 pm in CE 125 Tues and Wed of the first week of classes. Labs begin the second week.							
1.0- 1.0	71405	LAB	3F	Th	09:30 - 12:20 pm	TMH	00216	Balakrishnan,S	
		ME 4480 will meet 4:00-4:50 pm in CE 125 Tues and Wed of the first week of classes. Labs begin the second week.							
1.0- 1.0	70657	LAB	3G	Th	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S	
		ME 4480 will meet 4:00-4:50 pm in CE 125 Tues and Wed of the first week of classes. Labs begin the second week.							
1.0- 1.0	71815	LAB	3H	W	06:00 - 08:50 pm	TMH	00216	Balakrishnan,S	
		ME 4480 will meet 4:00-4:50 pm in CE 125 Tues and Wed of the first week of classes. Labs begin the second week.							
4761 Engineering Design Prerequisites: Preceded or accompanied each of Mech Eng 3708, 3525, 3131, 4479.	3.0- 3.0		LEC	1A	T	12:30 - 01:45 pm	TMH	00199	Midha,A
	3.0- 3.0	70651	LAB	3A	Th	12:30 - 01:45 pm	TMH	00199	Midha,A
			ADDITIONAL MEETING TIME TO BE ARRANGED. See 'Notes'-Additional Meeting						
4840 Mechanical Instrumentation Prerequisites: A grade of "C" or better in each of the following: Math 3304; Mech Eng 2519; Physics 2135 or Physics 2111.	2.0- 2.0	70642	LAB	3A	T	09:00 - 10:50 am	TMH	00317	
			LAB	3A	MW	02:00 - 02:50 pm	BCH	00125	Cottrell,M
	2.0- 2.0	70643	LAB	3B	T	11:00 - 12:50 pm	TMH	00317	Cottrell,M
			LAB	3B	MW	02:00 - 02:50 pm	BCH	00125	
	2.0- 2.0	70644	LAB	3C	T	01:00 - 02:50 pm	TMH	00317	Cottrell,M
			LAB	3C	MW	02:00 - 02:50 pm	BCH	00125	
	2.0- 2.0	70645	LAB	3D	MW	02:00 - 02:50 pm	BCH	00125	
			LAB	3D	T	03:00 - 04:50 pm	TMH	00317	Cottrell,M
	2.0- 2.0	71142	LAB	3E	MW	02:00 - 02:50 pm	BCH	00125	
			LAB	3E	W	03:00 - 04:50 pm	TMH	00317	Cottrell,M
	2.0- 2.0	71274	LAB	3F	Th	09:00 - 10:50 am	TMH	00317	Cottrell,M
			LAB	3F	MW	02:00 - 02:50 pm	BCH	00125	
	2.0- 2.0	71796	LAB	3G	MW	02:00 - 02:50 pm	BCH	00125	
			LAB	3G	Th	03:00 - 04:50 pm	TMH	00317	Cottrell,M
	2.0- 2.0	71275	LAB	3H	Th	01:00 - 02:50 pm	TMH	00317	Cottrell,M
			LAB	3H	MW	02:00 - 02:50 pm	BCH	00125	
2.0- 2.0	71307	LAB	3J	F	12:00 - 01:50 pm	TMH	00317	Cottrell,M	
		LAB	3J	MW	02:00 - 02:50 pm	BCH	00125		
2.0- 2.0	71908	LAB	3K	Th	11:00 - 12:50 pm	TMH	00317		
		LAB	3K	MW	02:00 - 02:50 pm	BCH	00125	Cottrell,M	
2.0- 2.0	72627	LAB	3L	W	12:00 - 01:50 pm	TMH	00317		
		LAB	3L	MW	02:00 - 02:50 pm	BCH	00125	Cottrell,M	
4842 Mechanical Engineering Systems Prerequisites: Mech Eng 4840, 3521, 3131, 3525, 3313.	2.0- 2.0	71503	LAB	3A	M	02:00 - 03:50 pm	TMH	00316	Stutts,D
			Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199. See 'Notes'-Additional Meeting Communication Emphasized						

			LAB 3A	W		03:00 - 03:50 pm	TMH	00199	
			Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199. See 'Notes'-Additional Meeting Communication Emphasized						
2.0- 2.0	70646	LAB 3B	T			09:00 - 10:50 am	TMH	00316	Stutts,D
			Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199. See 'Notes'-Additional Meeting Communication Emphasized						
		LAB 3B	W			03:00 - 03:50 pm	TMH	00199	
		Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199. See 'Notes'-Additional Meeting Communication Emphasized							
2.0- 2.0	70648	LAB 3C	T			02:00 - 03:50 pm	TMH	00316	Stutts,D
		Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199. See 'Notes'-Additional Meeting Communication Emphasized							
		LAB 3C	W			03:00 - 03:50 pm	TMH	00199	
		Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199. See 'Notes'-Additional Meeting Communication Emphasized							
2.0- 2.0	70647	LAB 3D	Th			09:00 - 10:50 am	TMH	00316	Stutts,D
		Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199. See 'Notes'-Additional Meeting Communication Emphasized							
		LAB 3D	W			03:00 - 03:50 pm	TMH	00199	
		Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199. See 'Notes'-Additional Meeting Communication Emphasized							
2.0- 2.0	71502	LAB 3E	Th			02:00 - 03:50 pm	TMH	00316	Stutts,D
		Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199. See 'Notes'-Additional Meeting Communication Emphasized							
		LAB 3E	W			03:00 - 03:50 pm	TMH	00199	
		Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199. See 'Notes'-Additional Meeting Communication Emphasized							
2.0- 2.0	71700	LAB 3F	W			01:00 - 02:50 pm	TMH	00316	Stutts,D
		Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199. See 'Notes'-Additional Meeting Communication Emphasized							
		LAB 3F	W			03:00 - 03:50 pm	TMH	00199	
		Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199. See 'Notes'-Additional Meeting Communication Emphasized							
2.0- 2.0	71909	LAB 3G	F			01:00 - 02:50 pm	TMH	00316	
		Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199. See 'Notes'-Additional Meeting Communication Emphasized							
		LAB 3G	W			03:00 - 03:50 pm	TMH	00199	Stutts,D
		Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199. See 'Notes'-Additional Meeting Communication Emphasized							
5000	Special Problems	0.0- 6.0	70684	IND 6A	ARR	ARR	ARR		Leu,M

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5001 Special Topics Prerequisites: Civ Eng 2210 or Mech Eng 2519 or graduate standing.	0.0- 6.0	70685	IND	6B	ARR	ARR	ARR		Liou,F
	0.0- 6.0	70979	IND	6C	ARR	ARR	ARR		Okafor,A
	3.0- 3.0	73223	LEC	1B	TTh	09:30 - 10:45 am	MCNT	00243	Park,J
5234 Stability of Engineering Structures Prerequisites: Civ Eng 2210; Math 3304; and Mech Eng 2350 or Mech Eng 2360 or Aero Eng 2360. (Co-listed with Aero Eng 5234)	3.0- 3.0	73222	LEC	1C	CANCELLED				
	3.0- 3.0	73220	LEC	1A	W	04:00 - 06:30 pm	BERTELS	00B12B	Birman,V
5236 Fracture Mechanics Prerequisite: Civ Eng 2210. (Co-listed with Aero Eng 5236)	3.0- 3.0	70660	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00213	Dharani,L
	3.0- 3.0	71001	LEC	1A	TTh	09:30 - 10:45 am	BCH	00213	Chandrashekhara,K
5282 Introduction to Composite Materials & Structures Prerequisite: Civ Eng 2210. (Co-listed with Aero Eng 5282)	3.0- 3.0		LEC	1A	MWF	10:00 - 10:50 am	BCH	00213	Krishnamurthy,K
	3.0- 3.0	73465	LAB	3A	ARR	ARR	ARR		Krishnamurthy,K
5478 Mechatronics Prerequisite: Mech Eng 4479 or equivalent. (Co-listed with Aero Eng 5478, Elec Eng 5870 and Comp Eng 5820)	3.0- 3.0		LEC	1A	TTh	11:00 - 12:15 pm	TMH	00254	Pan,H
	3.0- 3.0		LAB	3A	ARR	ARR	ARR		Krishnamurthy,K
5519 Advanced Thermodynamics Prerequisite: Mech Eng 2519. (Co-listed with Aero Eng 5519)	3.0- 3.0	72571	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00254	Pan,H
	3.0- 3.0	71880	LEC	1A	TTh	08:00 - 09:15 am	TMH	00256	Drallmeier,J
5533 Internal Combustion Engines Prerequisite: Mech Eng 3521.	3.0- 3.0	71880	LEC	1A	TTh	08:00 - 09:15 am	TMH	00256	Drallmeier,J
5537 Fuel Cell Principles Prerequisites: MECH ENG 3521.	3.0- 3.0	72057	LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00106	Koylu,U
5543 Energy Efficiency of Vehicles Prerequisites: Math 2222, Physics 2135.	3.0- 3.0	73561	LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00B12B	Carroll,D
	3.0- 3.0	71881	LEC	1A	T	07:00 - 09:30 pm	BCH	00121	Williams JR,G
5575 Mechanical Systems For Environmental Control Prerequisites: Mech Eng 3521 and 3525; or Mech Eng 2527 and Civ Eng 3330.	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	TMH	00256	Okafor,A
	3.0- 3.0	70662	LAB	3A	F	10:00 - 11:50 am	TMH	00197	Okafor,A
5653 Computer Numerical Control of Manufacturing Processes Prerequisites: Preceded or accompanied by Mech Eng 3653.	3.0- 3.0	71426	LAB	3B	W	01:00 - 02:50 pm	TMH	00197	Okafor,A
	3.0- 3.0	71041	LEC	1A	Th	07:00 - 09:30 pm	BERTELS	00B12A	Appelman,H
5656 Design For Manufacture Prerequisites: Mech Eng 3708, Mech Eng 3653.	3.0- 3.0	71041	LEC	1A	Th	07:00 - 09:30 pm	BERTELS	00B12A	Appelman,H
5704 Compliant Mechanism Design Prerequisites: Mech Eng 3313, Civ Eng 2210.	3.0- 3.0	70659	LEC	1A	MWF	10:00 - 10:50 am	TMH	00260	Midha,A
5757 Integrated Product And Process Design Prerequisites: Junior or above standing. (Co-listed with ENG MGT 5515)	3.0- 3.0	72248	LEC	1A	Th	04:00 - 05:15 pm	BERTELS	00B12B	Gosavi,A
5760 Probabilistic Engineering Design Prerequisite: Mech Eng 3708 or Aero Eng 3361. (Co-listed with Aero Eng 5760)	3.0- 3.0	71276	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00249	Du,X
5830 Applied Computational Methods Prerequisite: Comp Sci 1570 or 1970 or 1981; Math 3304. (Co-listed with Aero Eng 5830)	3.0- 3.0	71670	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00121	Hosder,S
6001 Special Topics	3.0- 3.0	73226	LEC	1A	TTh	12:30 - 01:45 pm	EMGT	00104	Chen,L
	3.0- 3.0	73503	LEC	1B	MWF	09:00 - 09:50 am	LIB	000G14	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	70713	IND	6A	ARR	ARR	ARR		Yang,X

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70714	IND	6A	ARR	ARR	ARR		Yang,X
6099 Research Prerequisite: Consent of instructor.	0.0-15.0	70687	IND	6A	ARR	ARR	ARR		Asle Zaeem,M
	0.0-15.0	71074	IND	6B	ARR	ARR	ARR		Balakrishnan,S
	0.0-15.0	70688	IND	6C	ARR	ARR	ARR		Bristow,D
	0.0-15.0	71332	IND	6D	ARR	ARR	ARR		Carroll,D
	0.0-15.0	70689	IND	6E	ARR	ARR	ARR		Chandrashekhara,K
	0.0-15.0	71333	IND	6F	ARR	ARR	ARR		Chen,L
	0.0-15.0	70690	IND	6G	ARR	ARR	ARR		Crosbie,A
	0.0-15.0	70691	IND	6H	ARR	ARR	ARR		Dharani,L
	0.0-15.0	70692	IND	6J	ARR	ARR	ARR		Dong,X
	0.0-15.0	70693	IND	6K	ARR	ARR	ARR		Drallmeier,J
	0.0-15.0	70694	IND	6L	ARR	ARR	ARR		Du,X
	0.0-15.0	70695	IND	6M	ARR	ARR	ARR		Duan,L
	0.0-15.0	70696	IND	6N	ARR	ARR	ARR		Eversman,W
	0.0-15.0	70697	IND	6P	ARR	ARR	ARR		Gao,J
	0.0-15.0	70698	IND	6Q	ARR	ARR	ARR		Han,D
	0.0-15.0	70699	IND	6R	ARR	ARR	ARR		Homan,K
	0.0-15.0	70700	IND	6T	ARR	ARR	ARR		Hosder,S
	0.0-15.0	70701	IND	6U	ARR	ARR	ARR		Isaac,K
	0.0-15.0	70702	IND	6V	ARR	ARR	ARR		Kinzel,E
	0.0-15.0	70703	IND	6W	ARR	ARR	ARR		Koylu,U
	0.0-15.0	70704	IND	6X	ARR	ARR	ARR		Krishnamurthy,K
	0.0-15.0	70705	IND	6Y	ARR	ARR	ARR		Landers,R
	0.0-15.0	70706	IND	6AA	ARR	ARR	ARR		Leu,M
	0.0-15.0	70707	IND	6BB	ARR	ARR	ARR		Liou,F
	0.0-15.0	70708	IND	6CC	ARR	ARR	ARR		Midha,A
	0.0-15.0	70709	IND	6DD	ARR	ARR	ARR		Nisbett,J
	0.0-15.0	70710	IND	6EE	ARR	ARR	ARR		Okafor,A
	0.0-15.0	70711	IND	6FF	ARR	ARR	ARR		Pan,H
	0.0-15.0	70712	IND	6GG	ARR	ARR	ARR		Park,J
	0.0-15.0	71806	IND	6HH	ARR	ARR	ARR		Riggins,D
	0.0-15.0	71854	IND	6JJ	ARR	ARR	ARR		Song,Y
	0.0-15.0	71855	IND	6KK	ARR	ARR	ARR		Stutts,D
	0.0-15.0	71882	IND	6LL	ARR	ARR	ARR		Tsai,H
	0.0-15.0	72060	IND	6MM	ARR	ARR	ARR		Wang,C
	0.0-15.0	72061	IND	6NN	ARR	ARR	ARR		Wojnar,C
	0.0-15.0	73036	IND	6PP	ARR	ARR	ARR		Yang,X
	0.0-15.0	73566	IND	6QQ	ARR	ARR	ARR		Zhou,C
6123 Viscous Fluid Flow Prerequisite: Mech Eng 5131 or Aero Eng 5131 or Mech Eng 5139 or Aero Eng 5139 or equivalent. (Co-listed with Aero Eng 6123)	3.0- 3.0	71784	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00121	Isaac,K
6212 Advanced Finite Element Analysis Prerequisite: Mech Eng 5212 or Aero Eng 5212. (Co-listed with Aero Eng 6212)	3.0- 3.0	70686	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00260	Chandrashekhara,K
6236 Advanced Fracture Mechanics Prerequisite: Aero Eng 5236 or Mech Eng 5236.	3.0- 3.0	73472	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00213	Dharani,L
6307 Advanced Vibrations Prerequisite: Mech Eng or Aero Eng 5307. (Co-listed with Aero Eng 6307)	3.0- 3.0	72699	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00204	Stutts,D
6458 Adaptive Dynamic Programming Prerequisites: Elec Eng 5370 or Comp Eng 5310. (Co-listed with Comp Eng 6320, Elec Eng 6360, Aero Eng 6458 and Sys Eng 6215)	3.0- 3.0	73274	LEC	1A	T	07:00 - 09:30 pm	EECH	00103	Wunsch,D
6481 Advanced Topics in Decision and Control Prerequisite: Aero Eng 5481 or Mech Eng 5481 or equivalent. (Co-listed with Aero Eng 6481)	3.0- 3.0	72923	LEC	1A	TTh	09:30 - 10:45 am	TMH	00260	Balakrishnan,S
6527 Heat Transfer by Convection Prerequisite: Mech Eng or Aero Eng 5525. (Co-listed with Aero Eng 6527)	3.0- 3.0	71745	LEC	1A	CANCELLED				

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6653 Advanced Cnc Of Manufacturing Processes & Engineering Metrology Prerequisite: Mech Eng 5653.	3.0- 3.0		LEC	1A	M	03:00 - 04:40 pm	EECH	00239	Okafor,A
	3.0- 3.0	73474	LAB	3A	F	03:00 - 04:50 pm	EMGT	00104	Okafor,A
6659 Advanced Topics in Design and Manufacturing Prerequisites: Mech Eng 5655 or Mech Eng 5708 or equivalent.	3.0- 3.0	70992	LEC	1A	TTh	02:00 - 03:15 pm	LIB	000G14	Liou,F

Metallurgical Engineering

2002 Cooperative Training	1.0- 2.0	70717	IND	6A	ARR	ARR	ARR		Miller,F
2110 Metallurgy For Engineers Prerequisite: Preceded or accompanied by Chem 1310, prior or concurrent.	3.0- 3.0	70715	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00204	Miller,F
	3.0- 3.0	70716	LEC	1B	MWF	11:00 - 11:50 am	MCNT	00204	Miller,F
2125 Microstructural Development Laboratory Prerequisite: Accompanied or preceded by Met Eng 3130.	2.0- 2.0		LEC	1A	T	12:30 - 01:30 pm	MCNT	00211	Zhou,C
	2.0- 2.0	72120	LAB	3A	T	01:30 - 03:15 pm	MCNT	000B5	Zhou,C
	2.0- 2.0	72121	LAB	3B	Th	12:30 - 02:15 pm	MCNT	000B5	Zhou,C
2410 Applied Metal Forming Prerequisite: Chem 1100.	2.0- 2.0		LEC	1A	F	12:00 - 12:50 pm	MCNT	00243	Newkirk,J
	2.0- 2.0	72599	LAB	3A	F	01:30 - 03:30 pm	MCNT	00245	Newkirk,J
3130 Metals Microstructural Development Prerequisites: "C" or better grade in MET ENG 2110; accompanied or preceded by CER ENG 3230.	3.0- 3.0	71123	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00212	Wen,H
3220 Introduction To Extractive Metallurgy Prerequisites: A grade of "C" or better in either Chem 1320 or Met Eng 1210. Preceded or accompanied by Met Eng 3330 or Cer Eng 3230 or Chem Eng 2210.	3.0- 3.0	71015	LEC	1A	MWF	08:00 - 08:50 am	MCNT	00211	Moats,M
3225 Extractive Metallurgy Laboratory Prerequisite: Preceded or accompanied by Met Eng 3220.	1.0- 1.0	71440	LAB	3A	M	01:00 - 01:50 pm	MCNT	00245	Moats,M
			LAB	3A	M	02:00 - 03:50 pm	MCNT	00233	
	1.0- 1.0	71062	LAB	3B	W	01:00 - 01:50 pm	MCNT	00212	Moats,M
			LAB	3B	W	02:00 - 03:50 pm	MCNT	00233	
3420 Principles Of Materials Processing Prerequisite: "C" or better grade in Met Eng 2110.	3.0- 3.0	70718	LEC	1A	MWF	11:00 - 11:50 am	MCNT	00211	Bartlett,L
3425 Metals Processing Prerequisite: Accompanied or preceded by Met Eng 3420.	1.0- 1.0	70719	LAB	3A	W	01:00 - 03:50 pm	MCNT	00244	Bartlett,L
	1.0- 1.0	71147	LAB	3B	M	01:00 - 03:50 pm	MCNT	00244	Bartlett,L
4000 Special Problems	0.0- 6.0	71090	IND	6A	ARR	ARR	ARR		Miller,F
	0.0- 6.0	70975	IND	6B	ARR	ARR	ARR		Newkirk,J
	0.0- 6.0	71070	IND	6C	ARR	ARR	ARR		O'Keefe,M
	0.0- 6.0	71156	IND	6D	ARR	ARR	ARR		Van Aken,D
4097 Materials Senior Design II Prerequisite: "C" or better in either Cer Eng 4096 or Met Eng 4096. (Co-listed with Cer Eng 4097)	3.0- 3.0	71252	LAB	3A	MWF	11:00 - 11:50 am	MCNT	00212	Schlesinger,M
4099 Undergraduate Research	0.0- 6.0	70720	IND	6A	ARR	ARR	ARR		Bartlett,L
	0.0- 6.0	70721	IND	6B	ARR	ARR	ARR		Miller,F
	0.0- 6.0	70722	IND	6C	ARR	ARR	ARR		Moats,M
	0.0- 6.0	70723	IND	6D	ARR	ARR	ARR		Newkirk,J
	0.0- 6.0	70724	IND	6E	ARR	ARR	ARR		Van Aken,D
	0.0- 6.0	70725	IND	6F	ARR	ARR	ARR		Watts,J
	0.0- 6.0	70726	IND	6G	ARR	ARR	ARR		
4230 Corrosion And Its Prevention Prerequisite: "C" or better grade in either Chem 3430 or Cer Eng 3230. (Co-listed with Chem Eng 5315)	3.0- 3.0	71865	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00210	Schlesinger,M

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4320 Steels And Their Treatment Prerequisite: "C" or better grade in both Met Eng 3130 and Met Eng 2125.	3.0- 3.0	73374	LEC	1A	TTh	02:00 - 03:15 pm	MCNT	00210	Van Aken,D
			Prerequisite						
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	70728	IND	6A	ARR	ARR	ARR		Moats,M
5270 Mineral Processing II (Mechanics and Design) Prerequisite: Min Eng 3412. (Co-listed with Min Eng 4424)	3.0- 3.0 3.0- 3.0	71606	LEC LAB	1A 3A	MW ARR	11:00 - 11:50 am ARR	MCNT ARR	00265	Alagha,L Alagha,L
5430 Metals Joining Prerequisite: Met Eng 2110 or 3420.	2.0- 2.0	73369	LEC	1A	TTh	09:30 - 10:20 am	MCNT	00245	Schlesinger,M
5510 Nondestructive Testing Prerequisite: Physics 2135 or 2111. (Co-listed with Elec Eng 5670)	3.0- 3.0	71347	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00111	Zoughi,R
5520 Electron Microscopy Prerequisites: Met Eng 3130 and Met Eng 2125, or a course in optical microscopy.	3.0- 3.0	71658	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00216	Miller,F
5525 Scanning Electron Microscopy Lab Prerequisite: Preceded or accompanied by Met Eng 5520.	1.0- 1.0 1.0- 1.0	72810 72811	LAB LAB	3A 3B	W W	09:00 - 11:50 am 01:00 - 03:50 pm	MCNT MCNT	000B18 000B18	Wisner,C Wisner,C
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70729	IND	6A	ARR	ARR	ARR		Moats,M
6099 Research	0.0-15.0	72359	IND	6A	ARR	ARR	ARR		Bartlett,L
	0.0-15.0	72360	IND	6B	ARR	ARR	ARR		Kumar,A
	0.0-15.0	72361	IND	6C	ARR	ARR	ARR		Moats,M
	0.0-15.0	72362	IND	6D	ARR	ARR	ARR		Newkirk,J
	0.0-15.0	72363	IND	6E	ARR	ARR	ARR		O'Malley,R
	0.0-15.0	72364	IND	6F	ARR	ARR	ARR		Schlesinger,M
	0.0-15.0	72365	IND	6G	ARR	ARR	ARR		Van Aken,D
	0.0-15.0	72366	IND	6H	ARR	ARR	ARR		Wen,H
	0.0-15.0	72367	IND	6J	ARR	ARR	ARR		Zhou,C
6535 Transmission Electron Microscopy Lab Prerequisite: Preceded or accompanied by Met Eng 5520.	1.0- 1.0 1.0- 1.0	72812 72813	LAB LAB	3A 3B	T W	01:00 - 03:50 pm 01:00 - 03:50 pm	MCNT MCNT	000B18 000B18	

Military Science - Army ROTC

1000 Army Physical Readiness Program	1.0- 1.0	70731	LAB	3A	MWF	06:00 - 07:00 am	ARR		Richard,S
1500 Introduction to Tactical Leadership	1.0- 1.0	70730	LEC	1A	W	02:00 - 02:50 pm	HARR	00302	Weicht,R
1700 Rifle Marksmanship	1.0- 1.0	71422	LEC	1A	M	11:00 - 11:50 am	HARR	00302	Pense,C
2500 Foundations of Tactical Leadership	3.0- 3.0	71002	LEC	1A	TTh	09:30 - 10:45 am	ARR		Shelby,T
2750 Basic Leadership Laboratory Prerequisite: To accompany Mil Army 2500.	1.0- 1.0	70732	LAB	3A	W	03:00 - 05:00 pm	ARR		Richard,S
3500 Leadership in Changing Environments Prerequisites: Mil Army 3250 - Exceptions to be made by Department Chair Only In Accordance With Army (Cadet Command) Policies.	3.0- 3.0 3.0- 3.0	70734	LEC LAB	1A 3A	TTh W	08:00 - 08:50 am 03:30 - 05:00 pm	HARR ARR	00302	Richard,S Richard,S
4000 Special Problems Prerequisites: Mil Army 4250 and 4500 - Exceptions to be made by Dept Chair Only in accordance with Army (Cadet Command) policies.	0.0- 6.0	70735	IND	6A	ARR	ARR	ARR		Register,O
4500 Leadership in a Complex World Prerequisite: Mil Army 4250 - Exceptions to be made by Department Chair Only In Accordance With Army (Cadet Command) Policies.	3.0- 3.0 3.0- 3.0	70737	LEC LAB	1A 3A	MW W	12:00 - 12:50 pm 03:30 - 05:00 pm	HARR ARR	00107	Register,O Register,O

Mining Engineering

1912 Principles Of Mining Engineering	2.0- 2.0	70738	LEC	1A	F	10:00 - 11:30 am	MCNT	00210	Johnson,C
			Field Trip Required						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2412 Principles Of Mineral Processing	3.0- 3.0		LEC	1A	MW	08:00 - 08:50 am	MCNT	00206	Alagha,L
4000 Special Problems	3.0- 3.0	71133	LAB	3A	F	01:00 - 03:45 pm	ARR		Alagha,L
	0.0- 6.0	70741	IND	6A	ARR	ARR	ARR		Aouad,N
	0.0- 6.0	70742	IND	6B	ARR	ARR	ARR		Auwah-Offei,K
	0.0- 6.0	71154	IND	6C	ARR	ARR	ARR		Frimpong,S
	0.0- 6.0	71500	IND	6D	ARR	ARR	ARR		Galecki,G
	0.0- 6.0	71712	IND	6E	ARR	ARR	ARR		Worsey,P
4097 Capstone Design Project Prerequisite: Min Eng 4096.	4.0- 4.0		LEC	1A	W	10:00 - 10:50 am	MCNT	00114	
			LEC	1A	M	10:00 - 10:50 am	MCNT	00114	Aouad,N
	4.0- 4.0	70746	LAB	3A	F	02:15 - 04:45 pm	MCNT	000B14	
			LAB	3A	TTh	02:15 - 04:45 pm	MCNT	00114	Aouad,N
4099 Undergraduate Research	0.0- 6.0	70743	IND	6A	ARR	ARR	ARR		Auwah-Offei,K
	0.0- 6.0	70744	IND	6B	ARR	ARR	ARR		Frimpong,S
4512 Mine Management Prerequisite: Completion of 50 credits toward Mining Engineering degree. (Co-listed ECON 4512)	3.0- 3.0	73176	LEC	1A	TTh	08:00 - 09:15 am	TMH	00260	Galecki,G
			Prerequisite						
4524 Energy Economics Prerequisite: Econ 2100. (Co-listed with Econ 4540)	3.0- 3.0	71798	LEC	1A	MWF	11:00 - 11:50 am	TMH	00249	Gelles,G
5000 Special Problems	0.0- 6.0	73180	IND	6A	ARR	ARR	ARR		Auwah-Offei,K
5412 Aggregates Materials Sizing and Characterization Prerequisite: Min Eng 2412.	3.0- 3.0		LEC	1A	MW	08:00 - 08:50 am	MCNT	00243	Galecki,G
	3.0- 3.0	73578	LAB	3A	ARR	ARR	ARR		Galecki,G
			Prerequisite						
5424 Mineral Processing II Mechanics And Design Prerequisites: Mi Eng 4424 or Consent of Instructor.	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	MCNT	00265	Alagha,L
	3.0- 3.0	72214	LAB	3A	ARR	ARR	ARR		Alagha,L
5522 Ore Reserve Analysis and Geostatistics Prerequisites: Math 3304 & Stat 3113 or instructor consent.	3.0- 3.0		LEC	1A	MW	10:00 - 10:50 am	MCNT	00210	Auwah-Offei,K
	3.0- 3.0	72539	LAB	3A	Th	11:00 - 12:15 pm	MCNutt	234	Auwah-Offei,K
5742 Environmental Aspects of Mining Prerequisites: Preceded or accompanied by Min Eng 5933 or Geo Eng 5441 or Env Eng 5619. (Co-listed with Geo Eng 5276)	3.0- 3.0	72139	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00103	Auwah-Offei,K
5823 Rock Mechanics Prerequisites:Physics 2135; Civ Eng 2210; Geology 3310. Field trip required.	3.0- 3.0		LEC	1A	MWF	11:00 - 11:50 am	TMH	00260	Sherizadeh,T
	3.0- 3.0	73580	LAB	3A	ARR	ARR	ARR		Sherizadeh,T
			Prerequisite						
5922 Tunneling & Underground Construction Techniques Prerequisites: Min Eng 4922 or Consent of Instructor.	3.0- 3.0		LEC	1A	W	01:00 - 02:50 pm	MCNT	00231	Perry,K
	3.0- 3.0	72738	LEC	1B	ARR	00:00 - 00:00 am			Perry,K
	3.0- 3.0	72141	LAB	3A	ARR	00:00 - 00:00 am			Perry,K
5933 Surface Mining Methods Prerequisites: Min Eng 4933 or Consent of Instructor.	3.0- 3.0	72212	LEC	1A	MWF	04:00 - 04:50 pm	EMGT	00103	Frimpong,S
6000 Special Problems	0.0- 6.0	71227	IND	6A	ARR	ARR	ARR		Alagha,L
	0.0- 6.0	71499	IND	6B	ARR	ARR	ARR		Aouad,N
	0.0- 6.0	71522	IND	6C	ARR	ARR	ARR		Auwah-Offei,K
	0.0- 6.0	71620	IND	6D	ARR	ARR	ARR		Frimpong,S
6001 Special Topics Prerequisite: Min Eng 4742 or an equivalent course.	3.0- 3.0	73185	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00265	Weiss,D
	3.0- 3.0	73507	LEC	1B	TTh	02:00 - 03:15 pm	ARR		Frimpong,S
	3.0- 3.0		Intgrate NEPA and Proj Mgmt Truck Haulage Engr						
	3.0- 3.0		LEC	1C	TTh	01:00 - 02:15 pm	CS	00207	Alagha,L
	3.0- 3.0	73514	LAB	3C	ARR	ARR	ARR		Alagha,L
			Advanced Flotation Advanced Flotation						
6010 Seminar	1.0- 1.0	70747	RSD	2A	M	12:00 - 12:50 pm	MCNT	00216	Auwah-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	70753	IND	6A	ARR	ARR	ARR		

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3223 Reactor Heat Transfer Prerequisite: Nuc Eng 3221.	3.0- 3.0	70769	LEC	1A	MWF	01:00 - 01:50 pm	BCH	00121	Schlegel,J
4000 Special Problems	0.0- 6.0	71367	IND	6A	ARR	ARR	ARR		Alajo,A
	0.0- 6.0	70770	IND	6B	ARR	ARR	ARR		Castano,C
	0.0- 6.0	70771	IND	6C	ARR	ARR	ARR		Lee,H
	0.0- 6.0	70772	IND	6D	ARR	ARR	ARR		Liu,X
	0.0- 6.0	71525	IND	6E	ARR	ARR	ARR		Mueller,G
	0.0- 6.0	71665	IND	6F	ARR	ARR	ARR		Schlegel,J
	0.0- 6.0	71982	IND	6G	ARR	ARR	ARR		Usman,S
4010 Seminar Prerequisite: Senior Standing.	0.0- 6.0	70776	RSD	2A	M	12:00 - 12:50 pm	FUL	00227	Usman,S
4099 Undergraduate Research	0.0- 6.0	71068	IND	6A	ARR	ARR	ARR		Alajo,A
	0.0- 6.0	70779	IND	6B	ARR	ARR	ARR		Graham,J
	0.0- 6.0	70780	IND	6C	ARR	ARR	ARR		Lee,H
	0.0- 6.0	71680	IND	6D	ARR	ARR	ARR		Liu,X
	0.0- 6.0	71681	IND	6E	ARR	ARR	ARR		Mueller,G
	0.0- 6.0	71872	IND	6F	ARR	ARR	ARR		Schlegel,J
	0.0- 6.0	71939	IND	6G	ARR	ARR	ARR		Smith,J
	0.0- 6.0	71949	IND	6H	ARR	ARR	ARR		Usman,S
4203 Reactor Physics I Prerequisite: Nuc Eng 3205.	3.0- 3.0	70773	LEC	1A	MWF	10:00 - 10:50 am	FUL	00220	Usman,S
4229 Nuclear Power Plant Systems Prerequisites: Nuc Eng 3205 and accompanied or preceded by Nuc Eng 3223.	3.0- 3.0	70777	LEC	1A	MWF	11:00 - 11:50 am	FUL	00209	Mueller,G
4257 Two-phase Flow in Energy Systems - I Prerequisite: Nuc Eng 3221 or Chem Eng 3100 or Mech Eng 3131.	3.0- 3.0	72610	LEC	1A	MWF	03:00 - 03:50 pm	BCH	00314	Schlegel,J
4312 Nuclear Radiation Measurements and Spectroscopy Prerequisite: Nuc Eng 3205.	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	FUL	00227	Lee,H
	3.0- 3.0	71116	LAB	3A	T	02:00 - 04:45 pm	FUL	00214	Lee,H
			Communication Emphasized						
	3.0- 3.0	71117	LAB	3B	W	02:00 - 04:45 pm	FUL	00214	Lee,H
			Communication Emphasized						
	3.0- 3.0	71625	LAB	3C	Th	02:00 - 04:45 pm	FUL	00214	Lee,H
			Communication Emphasized						
4345 Nuclear Engineering Mathematical Methods Prerequisites: Nuc Eng 4203.	3.0- 3.0	73183	LEC	1A	MWF	09:00 - 09:50 am	FUL	00209	Mueller,G
			Prerequisite						
4347 Radiological Engineering Prerequisite: Nuc Eng 3205.	3.0- 3.0	71575	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00254	Usman,S
4361 Fusion Fundamentals Prerequisite: Preceded or accompanied by Math 3304.	3.0- 3.0	73410	LEC	1A	MWF	11:00 - 11:50 am	BCH	00314	Graham,J
4438 Reactor Laboratory II Prerequisite: Nuc Eng 4428.	2.0- 2.0		LEC	1A	M	02:00 - 02:50 pm	FUL	00220	Castano,C
	2.0- 2.0	70775	LAB	3A	ARR	ARR	ARR		Castano,C
4456 Reactor Operation II Prerequisite: Nuc Eng 2105, 2406.	1.0- 1.0	71428	LAB	3A	ARR	ARR	ARR		Graham,J
4497 Nuclear System Design II Prerequisite: Nuc Eng 4496.	3.0- 3.0	70778	LEC	1A	T	02:00 - 04:45 pm	FUL	00220	Alajo,A
5203 Reactor Physics I Prerequisite: Nuc Eng 3205.	3.0- 3.0	71983	LEC	1A	MWF	10:00 - 10:50 am	FUL	00220	Usman,S
5257 Introduction to Nuclear Thermal Hydraulics Prerequisite: Graduate standing.	3.0- 3.0	72611	LEC	1A	MWF	03:00 - 03:50 pm	BCH	00314	Schlegel,J
5312 Nuclear Radiation Measurements and Spectroscopy Prerequisite: Nuc Eng 3205.	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	FUL	00227	Lee,H
	3.0- 3.0	71985	LAB	3A	T	02:00 - 04:45 pm	FUL	00214	Lee,H
	3.0- 3.0	71986	LAB	3B	W	02:00 - 04:45 pm	FUL	00214	Lee,H
	3.0- 3.0	71987	LAB	3C	Th	02:00 - 04:45 pm	FUL	00214	Lee,H
5347 Radiological Engineering Prerequisite: Nuc Eng 3205.	3.0- 3.0	72211	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00254	Usman,S
5438 Reactor Laboratory II Prerequisite: Nuc Eng 4428.	2.0- 2.0		LEC	1A	M	02:00 - 02:50 pm	FUL	00220	Castano,C
	2.0- 2.0	72446	LAB	3A	ARR	ARR	ARR		Castano,C
6000 Special Problems	0.0- 6.0	70781	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	70783	IND	6B	ARR	ARR	ARR		Lee,H
	0.0- 6.0	70782	IND	6C	ARR	ARR	ARR		Mueller,G
	0.0- 6.0	71732	IND	6D	ARR	ARR	ARR		Usman,S
6010 Seminar	0.0- 6.0	70784	RSD	2A	M	12:00 - 12:50 pm	FUL	00227	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	70788	IND	6A	ARR	ARR	ARR		Lee,H
6050 Continuous Registration Doctoral Students Only. Graduate Office permission required.	1.0- 1.0	70789	IND	6A	ARR	ARR	ARR		Lee,H
6085 Internship DE Students Only.	0.0-15.0	70787	IND	6A	ARR	ARR	ARR		Lee,H
6099 Research	0.0-15.0	71368	IND	6A	ARR	ARR	ARR		Alajo,A
	0.0-15.0	71069	IND	6B	ARR	ARR	ARR		Al Dahhan,M
	0.0-15.0	70785	IND	6C	ARR	ARR	ARR		Castano,C
	0.0-15.0	70786	IND	6D	ARR	ARR	ARR		Graham,J
	0.0-15.0	71592	IND	6E	ARR	ARR	ARR		Lee,H
	0.0-15.0	71613	IND	6F	ARR	ARR	ARR		Liu,X
	0.0-15.0	71666	IND	6G	ARR	ARR	ARR		Mueller,G
	0.0-15.0	71950	IND	6H	ARR	ARR	ARR		Schlegel,J
	0.0-15.0	72421	IND	6J	ARR	ARR	ARR		Usman,S
6203 Advanced Reactor Physics Prerequisite: Math 5325.	3.0- 3.0	71802	LEC	1A	TTh	12:30 - 01:45 pm	FUL	00220	Alajo,A

Petroleum Engineering

2510 Properties Of Hydrocarbon Fluids Prerequisite: Chem 1310.	3.0- 3.0	72053	LEC	1A	TTh	09:30 - 10:45 am	CS	00207	Hilgedick,S
3000 Special Problems Prerequisite: Consent of instructor.	1.0- 3.0	70791	IND	6A	ARR	ARR	ARR		Bai,B
	1.0- 3.0	70792	IND	6B	ARR	ARR	ARR		Dunn Norman,S
	1.0- 3.0	71383	IND	6C	ARR	ARR	ARR		Eckert,A
	1.0- 3.0	71384	IND	6D	ARR	ARR	ARR		Flori,R
	1.0- 3.0	71385	IND	6E	ARR	ARR	ARR		Hendrix,R
	1.0- 3.0	72704	IND	6F	ARR	ARR	ARR		Imqam,A
3330 Well Logging Prerequisites: Physics 2135 or 2111; Pet Eng 3520.	3.0- 3.0		LEC	1A	TTh	11:00 - 12:15 pm	BCH	00125	Imqam,A
	3.0- 3.0	71115	LAB	3A	M	01:00 - 03:30 pm	MCNT	00114	Imqam,A
	3.0- 3.0	72309	LAB	3B	T	01:00 - 03:30 pm	MCNT	000B14	Imqam,A
	3.0- 3.0	72310	LAB	3C	Th	01:00 - 03:30 pm	MCNT	000B14	Imqam,A
3520 Petroleum Reservoir Engineering Prerequisite: Accompanied or preceded by Pet Eng 2510.	3.0- 3.0	70790	LEC	1A	MWF	09:00 - 09:50 am	SHNK	000G3	Flori,R
4001 Special Topics Prerequisites: Pet Eng 4210.	3.0- 3.0	73429	LEC	1A	TTh	08:00 - 09:15 am	MCNT	00130	Hendrix,R
4097 Petroleum Engineering Design Prerequisites: Pet Eng 3520, Pet Eng 3410, and senior standing.	3.0- 3.0	72351	LEC	1A	W	02:00 - 04:30 pm	MCNT	00114	Flori,R
	3.0- 3.0	72429	LEC	1B	W	05:00 - 07:30 pm	MCNT	00114	Flori,R

Petroleum Engineering

4099 Undergraduate Research	0.0- 6.0	73097	IND	6A	ARR	ARR	ARR		Hendrix,R
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Petroleum Engineering

4211 Advanced Drilling Technology Prerequisites: Pet Eng 4210.	3.0- 3.0	72469	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00130	Hendrix,R
4410 Well Performance and Production Systems Prerequisite: Preceded or accompanied by Pet Eng 3520.	3.0- 3.0		LEC	1A	TTh	09:30 - 10:20 am	MCNT	00204	Dunn Norman,S
	3.0- 3.0	71261	LAB	3A	T	02:00 - 04:50 pm	MCNT	00204	Dunn Norman,S
4431 Well Completion Design Prerequisite: Pet Eng 3520.	3.0- 3.0	71656	LEC	1A	TTh	12:30 - 01:45 pm	MCNT	00130	Dunn Norman,S
4531 Natural Gas Engineering Prerequisite: Preceded or accompanied by Pet Eng 3520.	3.0- 3.0	71761	LEC	1A	MWF	01:00 - 01:50 pm	MCNT	00211	Wei,M
4611 Secondary Recovery Of Petroleum Prerequisites: Pet Eng 3520, Pet Eng 3529.	3.0- 3.0	72265	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00130	Bai,B
4631 Applied Reservoir Simulation Prerequisite: Pet Eng 3520.	3.0- 3.0	72125	LEC	1A	MWF	10:00 - 10:50 am	BCH	00313	Wei,M

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4710 Finite Element Analysis with Applications in Petroleum Engineering Prerequisites: Pet Eng 3520, Geology 3310, and Math 3304.	3.0- 3.0		LEC	1A	TTh	08:00 - 09:15 am	TMH	00251	Eckert,A
	3.0- 3.0	71387	LAB	3A	Th	02:00 - 04:50 pm	TMH	00251	Eckert,A
4720 Mechanical Earth Modeling Prerequisites: Pet Eng 3310 and Geology 3310.	3.0- 3.0	72054	LEC	1A	MWF	12:00 - 12:50 pm	FUL	00107A	Hilgedick,S
5000 Special Problems	0.0- 6.0	71233	IND	6A	ARR	ARR	ARR		Bai,B
	0.0- 6.0	71235	IND	6B	ARR	ARR	ARR		Dunn Norman,S
	0.0- 6.0	71248	IND	6C	ARR	ARR	ARR		Eckert,A
	0.0- 6.0	71388	IND	6D	ARR	ARR	ARR		Flori,R
	0.0- 6.0	71389	IND	6E	ARR	ARR	ARR		Hilgedick,S
	0.0- 6.0	72439	IND	6F	ARR	ARR	ARR		Imqam,A
5010 Seminar	0.0- 6.0	71004	RSD	2A	M	04:00 - 04:50 pm	MCNT	00204	Flori,R
5040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70796	IND	6A	ARR	ARR	ARR		Flori,R
5085 Internship DE Students Only.	0.0-15.0	70795	IND	6A	ARR	ARR	ARR		Dunn Norman,S
5099 Research Prerequisite: Consent of instructor.	0.0-12.0	70793	IND	6A	ARR	ARR	ARR		Bai,B
	0.0-12.0	70794	IND	6B	ARR	ARR	ARR		Dunn Norman,S
	0.0-12.0	71262	IND	6C	ARR	ARR	ARR		Eckert,A
	0.0-12.0	71263	IND	6D	ARR	ARR	ARR		Flori,R
	0.0-12.0	71390	IND	6E	ARR	ARR	ARR		Imqam,A
	0.0-12.0	71767	IND	6F	ARR	ARR	ARR		Oboh Ikuenobe,F
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	0.0-12.0	72416	IND	6G	ARR	ARR	ARR		Wei,M
	1.0- 1.0	70797	IND	6A	ARR	ARR	ARR		Dunn Norman,S
6541 Advanced Reservoir Engineering I Prerequisites: Pet Eng 5631 and Pet Eng 4520.	3.0- 3.0	71887	LEC	1A	T	07:00 - 09:30 pm	MCNT	00130	Bai,B

Philosophy

1105 Introduction To Philosophy Prerequisite: Entrance requirements.	3.0- 3.0	71989	LEC	1A	MWF	10:00 - 10:50 am	IDE	00202	Hamilton,P
			MOTR PHIL 100: Introduction to Philosophy						
	3.0- 3.0	72528	LEC	1D	TTh	12:30 - 01:45 pm	H-SS	00204	Reed,R
			MOTR PHIL 100: Introduction to Philosophy						
	3.0- 3.0	71676	LEC	1E	TTh	09:30 - 10:45 am	H-SS	00204	Reed,R
1115 Introduction To Logic Prerequisite: Entrance requirements.			MOTR PHIL 100: Introduction to Philosophy						
	3.0- 3.0	72891	LEC	1F	TTh	02:00 - 03:15 pm	IDE	00105	Dittmer,J
			MOTR PHIL 100: Introduction to Philosophy						
1130 Introduction to Ethics	3.0- 3.0	70798	LEC	1A	ARR	ARR	ARR		Finke,D
			MOTR PHIL 101: Introduction to Logic						
3001 Special Topics Prerequisites: One of the following: History 1100, History 1200, History 1300, History 1310.	3.0- 3.0	71893	LEC	1B	TTh	02:00 - 03:15 pm	H-SS	00101	Finke,D
			MOTR PHIL 101: Introduction to Logic						
3223 Bioethics Prerequisite: Sophomore standing or above.	3.0- 3.0	72234	LEC	1A	ARR	ARR			Gamez,P
			MOTR PHIL 102: Introduction to Ethics						
3225 Engineering Ethics Prerequisite: Sophomore standing or above.	3.0- 3.0	73491	LEC	1A	TTh	09:30 - 10:45 am	ROLLA	000G4	
			UM Shared Course-Primary						
3235 Business Ethics Prerequisite: Sophomore standing or above.	3.0- 3.0	73491	LEC	1A	MWF	11:00 - 11:50 am	IDE	00202	Hamilton,P
	3.0- 3.0	73489	LEC	1A	TTh	11:00 - 12:15 pm	IDE	000G4A	Gamez,P
			Prerequisite						
3235 Business Ethics Prerequisite: Sophomore standing or above.	3.0- 3.0	71320	LEC	1A	MWF	01:00 - 01:50 pm	IDE	00105	Hamilton,P
	3.0- 3.0	72527	LEC	1C	TTh	12:30 - 01:45 pm	IDE	00105	Dittmer,J
	3.0- 3.0	72235	LEC	1D	TTh	03:30 - 04:45 pm	IDE	00105	Dittmer,J

4.0-4.0	70813	RSD	2M	WF	12:00 - 12:50 pm	PHYS	00130	Vojta,A	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
4.0-4.0	71217	RSD	2N	WF	12:00 - 12:50 pm	PHYS	00129	Vojta,A	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
4.0-4.0	72065	RSD	2P	WF	12:00 - 12:50 pm	PHYS	00127	Vojta,A	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
4.0-4.0	72066	RSD	2Q	WF	01:00 - 01:50 pm	PHYS	00130	Vojta,A	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
4.0-4.0	72067	RSD	2R	WF	01:00 - 01:50 pm	PHYS	00129	Vojta,A	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
4.0-4.0	72311	RSD	2T	WF	01:00 - 01:50 pm	PHYS	00127	Vojta,A	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70814	LAB	3L01	M	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70815	LAB	3L02	M	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70816	LAB	3L03	M	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70817	LAB	3L04	M	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70818	LAB	3L05	M	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70819	LAB	3L06	M	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70820	LAB	3L07	T	11:00 - 12:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70821	LAB	3L08	T	11:00 - 12:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70822	LAB	3L09	T	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70823	LAB	3L10	T	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70824	LAB	3L11	T	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70825	LAB	3L12	T	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70826	LAB	3L13	T	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70827	LAB	3L14	T	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70828	LAB	3L15	W	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
0.0-0.0	70829	LAB	3L16	W	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	0.0-0.0	70830	LAB	3L17	W	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
									See 'Notes' for Evening Exams	
									MOTR PHYS 200L: Advanced Physics I with Lab	
	0.0-0.0	71218	LAB	3L18	W	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
									See 'Notes' for Evening Exams	
									MOTR PHYS 200L: Advanced Physics I with Lab	
	0.0-0.0	71219	LAB	3L19	Th	11:00 - 12:50 pm	PHYS	00215	Waddill,G	
									See 'Notes' for Evening Exams	
									MOTR PHYS 200L: Advanced Physics I with Lab	
	0.0-0.0	71220	LAB	3L20	Th	11:00 - 12:50 pm	PHYS	00215	Waddill,G	
									See 'Notes' for Evening Exams	
									MOTR PHYS 200L: Advanced Physics I with Lab	
	0.0-0.0	71221	LAB	3L21	Th	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
									See 'Notes' for Evening Exams	
									MOTR PHYS 200L: Advanced Physics I with Lab	
	0.0-0.0	71587	LAB	3L22	Th	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
									See 'Notes' for Evening Exams	
									MOTR PHYS 200L: Advanced Physics I with Lab	
	0.0-0.0	72068	LAB	3L23	Th	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
									See 'Notes' for Evening Exams	
									MOTR PHYS 200L: Advanced Physics I with Lab	
	0.0-0.0	72069	LAB	3L24	Th	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
									See 'Notes' for Evening Exams	
									MOTR PHYS 200L: Advanced Physics I with Lab	
	0.0-0.0	72070	LAB	3L25	Th	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
									See 'Notes' for Evening Exams	
									MOTR PHYS 200L: Advanced Physics I with Lab	
	0.0-0.0	72071	LAB	3L26	Th	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
									See 'Notes' for Evening Exams	
									MOTR PHYS 200L: Advanced Physics I with Lab	
	0.0-0.0	72072	LAB	3L27	F	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
									See 'Notes' for Evening Exams	
									MOTR PHYS 200L: Advanced Physics I with Lab	
	0.0-0.0	72073	LAB	3L28	F	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
									See 'Notes' for Evening Exams	
									MOTR PHYS 200L: Advanced Physics I with Lab	
	0.0-0.0	72312	LAB	3L29	F	01:00 - 02:50 pm	PHYS	00213	Waddill,G	
									See 'Notes' for Evening Exams	
									MOTR PHYS 200L: Advanced Physics I with Lab	
1505	Introductory Astronomy	3.0-3.0	72313	LEC	1A	MWF	03:00 - 03:50 pm	PHYS	00104	Story,J
										MOTR ASTR 100: Astronomy
										MOTR ASTR 100L: Astronomy with Lab
1509	Astronomy Laboratory Prerequisite: Preceded or accompanied by Physics 1505 or 1515.	1.0-1.0	72314	LAB	3A	M	06:00 - 07:50 pm	PHYS	00213	Story,J
										MOTR ASTR 100L: Astronomy with Lab
		1.0-1.0	72315	LAB	3B	W	06:00 - 07:50 pm	PHYS	00213	Story,J
										MOTR ASTR 100L: Astronomy with Lab
2119	General Physics Laboratory Prerequisite: Preceded or accompanied by either Physics 2111 or Physics 2145.	1.0-1.0	70852	LAB	3A	T	03:00 - 04:50 pm	PHYS	00214	Waddill,G
		1.0-1.0	71706	LAB	3B	T	06:00 - 07:50 pm	PHYS	00214	Waddill,G
2129	Intermediate Physics Laboratory	3.0-3.0		LEC	1A	T	01:00 - 01:50 pm	PHYS	00218	Hor,Y
		3.0-3.0	70855	LAB	3A	Th	01:00 - 03:50 pm	PHYS	00218	Hor,Y
				LAB	3A	T	02:00 - 04:50 pm	PHYS	00218	Hor,Y
2135	Engineering Physics II Prerequisites: Physics 1135 or Physics 1111, Math 1221 or Math 1215.	0.0-0.0	71181	LEC	1AA	MW	09:00 - 09:50 am	PHYS	00104	Musser,J
										Students must enroll in a LEC, RSD, and a LAB. Students are scheduled for group exams from 5:00 to 6:00pm on Tuesdays: Feb. 19, Apr. 2, and Apr. 23.
		0.0-0.0	70831	LEC	1BB	MW	10:00 - 10:50 am	PHYS	00104	Musser,J
										Students must enroll in a LEC, RSD, and a LAB. Students are scheduled for group exams from 5:00 to 6:00pm on Tuesdays: Feb. 19, Apr. 2, and Apr. 23.
										See 'Notes' for Evening Exams

0.0- 0.0	70832	LEC	ICC	ARR	ARR	ARR		Musser,J
		Students must enroll in a LEC, RSD, and a LAB. Students are scheduled for group exams from 5:00 to 6:00pm on Tuesdays: Feb. 19, Apr. 2, and Apr. 23.						
		See 'Notes' for Evening Exams						
4.0- 4.0	70833	RSD	2A	TTh	08:00 - 08:50 am	PHYS	00130	Musser,J
		See 'Notes' for Evening Exams						
4.0- 4.0	70834	RSD	2B	TTh	09:00 - 09:50 am	PHYS	00130	Musser,J
		See 'Notes' for Evening Exams						
4.0- 4.0	70835	RSD	2C	TTh	09:00 - 09:50 am	PHYS	00129	Musser,J
		See 'Notes' for Evening Exams						
4.0- 4.0	70836	RSD	2D	TTh	09:00 - 09:50 am	IDE	00202	Musser,J
		See 'Notes' for Evening Exams						
4.0- 4.0	70837	RSD	2E	TTh	10:00 - 10:50 am	PHYS	00129	Musser,J
		See 'Notes' for Evening Exams						
4.0- 4.0	71013	RSD	2F	TTh	10:00 - 10:50 am	PHYS	00130	Musser,J
		See 'Notes' for Evening Exams						
4.0- 4.0	70838	RSD	2G	TTh	11:00 - 11:50 am	PHYS	00129	Musser,J
		See 'Notes' for Evening Exams						
4.0- 4.0	71129	RSD	2H	TTh	11:00 - 11:50 am	PHYS	00130	Musser,J
		See 'Notes' for Evening Exams						
4.0- 4.0	71268	RSD	2J	TTh	12:00 - 12:50 pm	PHYS	00129	Musser,J
		See 'Notes' for Evening Exams						
4.0- 4.0	71678	RSD	2K	TTh	12:00 - 12:50 pm	PHYS	00130	Musser,J
		See 'Notes' for Evening Exams						
4.0- 4.0	72074	RSD	2L	TTh	01:00 - 01:50 pm	PHYS	00129	Musser,J
		See 'Notes' for Evening Exams						
4.0- 4.0	72075	RSD	2M	TTh	01:00 - 01:50 pm	PHYS	00130	Musser,J
		See 'Notes' for Evening Exams						
4.0- 4.0	72316	RSD	2N	TTh	10:00 - 10:50 am	IDE	00202	Musser,J
		See 'Notes' for Evening Exams						
0.0- 0.0	70839	LAB	3L01	M	01:00 - 02:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	70840	LAB	3L02	M	01:00 - 02:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	70841	LAB	3L03	M	03:00 - 04:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	70842	LAB	3L04	M	03:00 - 04:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	70843	LAB	3L05	M	06:00 - 07:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	70844	LAB	3L06	M	06:00 - 07:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	70845	LAB	3L07	M	11:00 - 12:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	70846	LAB	3L08	M	11:00 - 12:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	70847	LAB	3L09	T	01:00 - 02:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	70848	LAB	3L10	T	01:00 - 02:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	70849	LAB	3L11	W	01:00 - 02:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	70850	LAB	3L12	W	01:00 - 02:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	70851	LAB	3L13	W	03:00 - 04:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	71130	LAB	3L15	W	06:00 - 07:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	71182	LAB	3L17	W	11:00 - 12:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	71482	LAB	3L14	W	03:00 - 04:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						
0.0- 0.0	71483	LAB	3L16	W	06:00 - 07:50 pm	PHYS	00214	Waddill,G
		See 'Notes' for Evening Exams						

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	0.0- 0.0	71679	LAB	3L18	W	11:00 - 12:50 pm	PHYS	00214	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72076	LAB	3L19	Th	01:00 - 02:50 pm	PHYS	00214	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72077	LAB	3L20	Th	01:00 - 02:50 pm	PHYS	00214	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72078	LAB	3L21	Th	03:00 - 04:50 pm	PHYS	00214	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72317	LAB	3L22	Th	03:00 - 04:50 pm	PHYS	00214	Waddill,G
			See 'Notes' for Evening Exams						
2145	3.0- 3.0	71180	LEC	1A	MWF	08:00 - 08:50 am	PHYS	00104	Vojta,A
	Prerequisites: Math 1160, Physics 1145.								
2305	3.0- 3.0	70853	LEC	1A	MWF	02:00 - 02:50 pm	PHYS	00104	Story,J
	Prerequisites: Math 2222 and Physics 2135 or 2111.								
2311	3.0- 3.0	72936	LEC	1A	MWF	09:00 - 09:50 am	PHYS	00127	Yamilov,A
	Prerequisites: Physics 2135 or 2111, preceded or accompanied by Math 3304 or 3329.								
2401	3.0- 3.0	71112	LEC	1A	MWF	03:00 - 03:50 pm	PHYS	00127	Peacher,J
	Prerequisites: Math 3304 co-requisite; Physics 2135 or 2111.								
3000	0.0- 6.0	70857	IND	6B	ARR	ARR	ARR		Medvedeva,I
	0.0- 6.0	70858	IND	6C	ARR	ARR	ARR		Peacher,J
	0.0- 6.0	71300	IND	6D	ARR	ARR	ARR		Vojta,S
3119	3.0- 3.0	71014	LAB	3A	TTh	12:30 - 03:15 pm	PHYS	00219	Fischer,D
	Prerequisite: Physics 2129								
3129	3.0- 3.0	70859	LAB	3A	TTh	12:30 - 03:15 pm	PHYS	00219	Fischer,D
	Prerequisite: Physics 2129.								
3211	3.0- 3.0	70856	LEC	1A	MWF	10:00 - 10:50 am	PHYS	00127	Peacher,J
	Prerequisite: Physics 2401.								
4099	0.0- 6.0	70861	IND	6A	ARR	ARR	ARR		Chernatynskiy,A
	0.0- 6.0	70862	IND	6B	ARR	ARR	ARR		Fischer,D
	0.0- 6.0	70863	IND	6D	ARR	ARR	ARR		Hor,Y
	0.0- 6.0	70864	IND	6E	ARR	ARR	ARR		Jentschura,U
	0.0- 6.0	70865	IND	6F	ARR	ARR	ARR		Le,T
	0.0- 6.0	70866	IND	6G	ARR	ARR	ARR		Madison,D
	0.0- 6.0	70867	IND	6H	ARR	ARR	ARR		Medvedeva,I
	0.0- 6.0	70868	IND	6J	ARR	ARR	ARR		Parris,P
	0.0- 6.0	71140	IND	6K	ARR	ARR	ARR		Peacher,J
	0.0- 6.0	71141	IND	6L	ARR	ARR	ARR		Schulz,M
	0.0- 6.0	71177	IND	6M	ARR	ARR	ARR		Story,J
	0.0- 6.0	71178	IND	6N	ARR	ARR	ARR		Vojta,S
	0.0- 6.0	71179	IND	6P	ARR	ARR	ARR		Waddill,G
	0.0- 6.0	71595	IND	6Q	ARR	ARR	ARR		Wilemski,G
	0.0- 6.0	72318	IND	6R	ARR	ARR	ARR		Yamilov,A
4311	3.0- 3.0	71870	LEC	1A	TTh	11:00 - 12:15 pm	PHYS	00127	Wilemski,G
	Prerequisite: Physics 2305 or 2311.								
4323	3.0- 3.0	72937	LEC	1A	MWF	02:00 - 02:50 pm	PHYS	00127	Waddill,G
	Prerequisites: Math 3304 and Physics 2305 or 2311.								
4513	3.0- 3.0	70860	LEC	1A	MWF	11:00 - 11:50 am	PHYS	00127	Story,J
	Prerequisite: Physics 2305 or 2311.								
5301	3.0- 3.0	70872	LEC	1A	ARR	ARR	ARR		Parris,P
	Prerequisite: Physics 4301 or equivalent.								
5603	3.0- 3.0	71733	LEC	1A	ARR	ARR	ARR		Waddill,G
	Prerequisite: Graduate standing.								
6000	0.0- 6.0	70869	IND	6A	ARR	ARR	ARR		Hor,Y
	0.0- 6.0	71905	IND	6C	ARR	ARR	ARR		Peacher,J
6002	0.0- 1.0	70889	IND	6A	ARR	ARR	ARR		Peacher,J
6010	0.0- 6.0	70870	RSD	2A	Th	03:30 - 05:20 pm	PHYS	00104	Le,T

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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	70888	IND	6A	ARR	ARR	ARR		Vojta,S
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70890	IND	6A	ARR	ARR	ARR		Vojta,S
6099 Research	0.0-15.0	70873	IND	6A	ARR	ARR	ARR		Chernatynskiy,A
			Distance Course Rates Apply						
	0.0-15.0	70874	IND	6B	ARR	ARR	ARR		Fischer,D
	0.0-15.0	70875	IND	6C	ARR	ARR	ARR		Hor,Y
	0.0-15.0	70876	IND	6E	ARR	ARR	ARR		Jentschura,U
	0.0-15.0	70877	IND	6F	ARR	ARR	ARR		Madison,D
	0.0-15.0	70878	IND	6G	ARR	ARR	ARR		Medvedeva,I
	0.0-15.0	70879	IND	6H	ARR	ARR	ARR		Parris,P
	0.0-15.0	70880	IND	6J	ARR	ARR	ARR		Peacher,J
	0.0-15.0	70881	IND	6K	ARR	ARR	ARR		Schulz,M
	0.0-15.0	70882	IND	6L	ARR	ARR	ARR		Story,J
	0.0-15.0	70883	IND	6M	ARR	ARR	ARR		Vojta,S
	0.0-15.0	70884	IND	6N	ARR	ARR	ARR		Waddill,G
	0.0-15.0	70885	IND	6P	ARR	ARR	ARR		Wilemski,G
	0.0-15.0	70886	IND	6Q	ARR	ARR	ARR		Yamilov,A
	0.0-15.0	73521	IND	6R	ARR	ARR	ARR		Le,T
6311 Statistical Mechanics Prerequisites: Physics 4311 and Physics 5301.	3.0- 3.0	73347	LEC	1A	TTh	09:30 - 10:45 am	PHYS	00127	Vojta,S

Political Science

1200 American Government	3.0- 3.0	71833	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	00101	Meagher,M
			MOTR POSC 101: American Government						
	3.0- 3.0	72432	LEC	1B	TTh	09:30 - 10:45 am	EMGT	00104	Isaac,T
			MOTR POSC 101: American Government						
2500 International Relations Prerequisite: Pol Sci 1200 or History 1300 or 1310.	3.0- 3.0	73218	LEC	1A	TTh	12:30 - 01:45 pm	H-SS	00203	Isaac,T
			Prerequisite						
3763 Contemporary Political Thought Prerequisite: History 1300 or History 1310 or Pol Sci 1200. (Co-listed with History 3763)	3.0- 3.0	73215	LEC	1A	W	06:00 - 08:45 pm	H-SS	00101	Meagher,M
			Prerequisite						
4000 Special Problems And Readings	0.0- 6.0	70891	IND	6A	ARR	ARR	ARR		Meagher,M
4085 Political Science Internship Prerequisite: Pol Sci 1200 or Pol Sci 1100.	0.0- 6.0	70892	IND	6A	ARR	ARR	ARR		Meagher,M

Pre-Medicine

3010 Communication Workshop for the Pre-Health Student Prerequisite: Junior Standing.	1.0- 1.0	71278	RSD	6A	M	02:00 - 02:50 pm	CH	00104	Shannon,K
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Psychology

1101 General Psychology	3.0- 3.0	70893	LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00103	Baker,D
			MOTR PSYC 100: General Psychology						
	3.0- 3.0	72561	LEC	1B	TTh	12:30 - 01:45 pm	EECH	00G31	Stone,N
			MOTR PSYC 100: General Psychology						
	3.0- 3.0	72440	LEC	1C	T	06:00 - 08:45 pm	H-SS	000G5	Stratman,T
			MOTR PSYC 100: General Psychology						
2200 Research Methods	4.0- 4.0		LEC	1A	MWF	09:00 - 09:50 am	H-SS	000G7	Burns,D
			Prerequisite						
	4.0- 4.0	73197	LAB	3A	T	02:00 - 05:00 pm	H-SS	00202	Burns,D
			Prerequisite						
2300 Educational Psychology Prerequisite: Psych 1101. (Co-listed with Educ 2102)	3.0- 3.0	72342	LEC	1A	M	04:00 - 06:30 pm	BCH	00124	Spooner,P
3310 Developmental Psychology Prerequisite: Psych 1101.	3.0- 3.0	73199	LEC	1A	MWF	10:00 - 10:50 am	EECH	00101	Krueger,M
			Prerequisite						

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3311 Psychological & Educational Development Of The Adolescent	3.0- 3.0	71322	LEC	1B	MWF	01:00 - 01:50 pm	TMH	00256	Krueger,M
4000 Special Problems And Readings In Psychology	0.0- 6.0	71369	IND	6A	ARR	ARR	ARR		Baker,D
	0.0- 6.0	70894	IND	6B	ARR	ARR	ARR		Belfi,A
	0.0- 6.0	71528	IND	6C	ARR	ARR	ARR		Burns,D
	0.0- 6.0	70895	IND	6D	ARR	ARR	ARR		Cundiff,J
	0.0- 6.0	71738	IND	6E	ARR	ARR	ARR		Henslee,A
	0.0- 6.0	72230	IND	6F	ARR	ARR	ARR		Kueny,C
	0.0- 6.0	72443	IND	6G	ARR	ARR	ARR		Murray,S
	0.0- 6.0	72515	IND	6H	ARR	ARR	ARR		Shank,D
	0.0- 6.0	72516	IND	6J	ARR	ARR	ARR		Stone,N
	0.0- 6.0	72517	IND	6K	ARR	ARR	ARR		Weidner,N
4099 Undergraduate Research Prerequisite: Instructor consent.	0.0- 6.0	71370	IND	6A	ARR	ARR	ARR		Baker,D
	0.0- 6.0	70896	IND	6B	ARR	ARR	ARR		Burns,D
	0.0- 6.0	71529	IND	6C	ARR	ARR	ARR		Cundiff,J
	0.0- 6.0	70897	IND	6D	ARR	ARR	ARR		Henslee,A
	0.0- 6.0	71739	IND	6E	ARR	ARR	ARR		Kueny,C
	0.0- 6.0	72231	IND	6F	ARR	ARR	ARR		Murray,S
	0.0- 6.0	72563	IND	6G	ARR	ARR	ARR		Shank,D
	0.0- 6.0	72564	IND	6H	ARR	ARR	ARR		Belfi,A
	0.0- 6.0	72565	IND	6J	ARR	ARR	ARR		Stone,N
	0.0- 6.0	72566	IND	6K	ARR	ARR	ARR		Weidner,N
4510 Clinical Psychology Prerequisites: Psych 1101 and Psych 4501.	3.0- 3.0	71446	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	000G7	Henslee,A
4590 Health Psychology Prerequisite: Psych 1101.	3.0- 3.0	72514	LEC	1A	TTh	12:30 - 01:45 pm	H-SS	000G7	Henslee,A
4600 Social Psychology Prerequisite: Psych 1101.	3.0- 3.0	71485	LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00102	Cundiff,J
4710 Human Factors Prerequisite: Psych 1101. (Co-listed with Eng Mgt 4330)	3.0- 3.0	71969	LEC	1A	TTh	09:30 - 10:45 am	EECH	00101	Baker,D
4720 Human-Computer Interaction Prerequisite: Psych 1101.	3.0- 3.0	73200	LEC	1A	MWF	09:00 - 09:50 am	CS	00204	Shank,D
4990 Internship Prerequisite: Junior or Senior Psychology major; consent of instructor; must have completed 9 hours in major.	0.0- 6.0	72307	IND	6A	ARR	ARR	ARR		Henslee,A
	0.0- 6.0	72518	IND	6B	ARR	ARR	ARR		Murray,S
4992 Cross-Cultural Psychology Prerequisite: Psych 1101.	3.0- 3.0	72513	LEC	1A	MWF	11:00 - 11:50 am	BCH	00121	Krueger,M
4993 Psychology of Gender Prerequisite: Psych 1101.	3.0- 3.0	73201	LEC	1A	TTh	03:30 - 04:45 pm	H-SS	000G7	Cundiff,J
5000 Special Problems	0.0- 6.0	72428	IND	6A	ARR	ARR	ARR		Baker,D
	0.0- 6.0	72632	IND	6B	ARR	ARR	ARR		Kueny,C
	0.0- 6.0	72644	IND	6C	ARR	ARR	ARR		Shank,D
	0.0- 6.0	73065	IND	6E	ARR	ARR	ARR		Weidner,N
5001 Special Topics Prerequisite: Graduate standing.	3.0- 3.0	73205	LEC	1A	W	04:00 - 06:30 pm	H-SS	00105	Murray,S
5012 Ethics and Professional Responsibilities Prerequisite: Graduate standing.	1.0- 1.0	72833	LEC	1A	Th	05:00 - 05:50 pm	H-SS	00105	
5201 Psychometrics Prerequisite: Psych 5202.	3.0- 3.0	71830	LEC	1A	M	07:00 - 09:30 pm	H-SS	00105	Burns,D
5601 Small Group Dynamics Prerequisite: Psych 4601 or graduate standing.	3.0- 3.0	72519	LEC	1A	Th	07:00 - 09:30 pm	H-SS	00105	Shank,D
5700 Job Analysis and Performance Management Prerequisites: Psych 4700 or graduate standing.	3.0- 3.0	72831	LEC	1A	T	04:00 - 06:30 pm	EECH	00239	Stone,N
6099 Research Prerequisites: Consent of instructor required.	0.0- 6.0	72614	IND	6A	ARR	ARR	ARR		Baker,D
	0.0- 6.0	72834	IND	6B	ARR	ARR	ARR		Cundiff,J
	0.0- 6.0	72835	IND	6C	ARR	ARR	ARR		Kueny,C
	0.0- 6.0	73202	IND	6D	ARR	ARR	ARR		Weidner,N
6610 Leadership, Motivation, and Culture Prerequisite: Psych 4610 or graduate standing.	3.0- 3.0	72612	LEC	1A	M	04:00 - 06:30 pm	H-SS	00105	Weidner,N

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6700 Training and Development Prerequisite: Psych 5700.	3.0- 3.0	73203	LEC	1A	T	04:00 - 06:30 pm	H-SS	00105	Weidner,N

Russian

1102 Elementary Russian II Prerequisite: Russian 1101.	4.0- 4.0	70898	LEC	1A	TTh	09:30 - 10:45 am	H-SS	00202	Ivliyeva,I
			LEC	1A	ARR	ARR	ARR		
4320 Russian Phonetics and Intonation Prerequisite: Russian 1102.	3.0- 3.0	71538	LEC	1A	TTh	08:00 - 08:50 am	H-SS	00202	Ivliyeva,I
			LEC	1A	ARR	ARR	ARR		
4360 Russian Civilization Prerequisite: Any 1000 or higher level history course.	3.0- 3.0	70899	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00201	Ivliyeva,I

Spanish

1101 Elementary Spanish I Prerequisites: Entrance requirements.	4.0- 4.0	72236	LEC	1A	TTh	09:30 - 10:45 am	H-SS	00201	Porcel,J
			MOTR LANG 103: Spanish I						
			LEC	1A	ARR	ARR	ARR		
			MOTR LANG 103: Spanish I						
1102 Elementary Spanish II Prerequisite: Spanish 1101.	4.0- 4.0	72339	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00103	Porcel,J
			MOTR LANG 104: Spanish II						
			LEC	1A	ARR	ARR	ARR		
			MOTR LANG 104: Spanish II						
1180 Readings And Composition Prerequisite: Spanish 1102.	4.0- 4.0	72892	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00203	Barbosa,M
			LEC	1A	ARR	ARR	ARR		
2001 Special Topics Prerequisites: Spanish 1180.	3.0- 3.0	73487	LEC	1A	TTh	12:30 - 01:45 pm	SHNK	00305	Porcel,J
			Contemporary Latin America						
4311 Advanced Spanish Conversation Prerequisites: Any Spanish course at the 2000 or 3000 level.	3.0- 3.0	72954	LEC	1A	MWF	01:00 - 01:50 pm	CS	00205	Barbosa,M

Speech & Media Studies

1185 Principles Of Speech Prerequisite: Entrance requirements.	3.0- 3.0	71189	LEC	1A	MWF	09:00 - 09:50 am	H-SS	000G9	Devault,T
			Communication Intensive						
			MOTR COMM 110: Fundamentals of Public Speaking						
	3.0- 3.0	71048	LEC	1B	MWF	10:00 - 10:50 am	H-SS	000G9	Robertson,T
			Communication Intensive						
			MOTR COMM 110: Fundamentals of Public Speaking						
	3.0- 3.0	70904	LEC	1D	MWF	11:00 - 11:50 am	H-SS	000G9	Robertson,T
			Communication Intensive						
			MOTR COMM 110: Fundamentals of Public Speaking						
	3.0- 3.0	70900	LEC	1E	MWF	12:00 - 12:50 pm	MCNT	00245	Deterding,A
			Communication Intensive						
			MOTR COMM 110: Fundamentals of Public Speaking						
	3.0- 3.0	72419	LEC	1F	MWF	01:00 - 01:50 pm	H-SS	000G9	Robertson,T
			Communication Intensive						
			MOTR COMM 110: Fundamentals of Public Speaking						
	3.0- 3.0	71226	LEC	1G	MWF	02:00 - 02:50 pm	H-SS	000G9	Deterding,A
			Communication Intensive						
			MOTR COMM 110: Fundamentals of Public Speaking						
	3.0- 3.0	70901	LEC	1H	MWF	02:00 - 02:50 pm	H-SS	000G8	Devault,T
			Communication Intensive						
			MOTR COMM 110: Fundamentals of Public Speaking						
	3.0- 3.0	71302	LEC	1J	MWF	03:00 - 03:50 pm	H-SS	00101	Devault,T
			Communication Intensive						
			MOTR COMM 110: Fundamentals of Public Speaking						
	3.0- 3.0	70902	LEC	1K	MWF	10:00 - 10:50 am	CS	00205	Deterding,A
			Communication Intensive						
			MOTR COMM 110: Fundamentals of Public Speaking						
	3.0- 3.0	72629	LEC	1L	TTh	09:30 - 10:45 am	H-SS	00104	James,K
			Communication Intensive						
			MOTR COMM 110: Fundamentals of Public Speaking						
	3.0- 3.0	72634	LEC	1M	TTh	11:00 - 12:15 pm	H-SS	000G9	James,K
			Communication Intensive						
			MOTR COMM 110: Fundamentals of Public Speaking						
	3.0- 3.0	72635	LEC	1N	TTh	02:00 - 03:15 pm	H-SS	000G9	James,K
			Communication Intensive						
			MOTR COMM 110: Fundamentals of Public Speaking						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	3.0- 3.0	72894	LEC	1P	TTh	03:30 - 04:45 pm	H-SS	000G9	James,K	
			Communication Intensive							
			MOTR COMM 110: Fundamentals of Public Speaking							
	3.0- 3.0	72895	LEC	1Q	TTh	06:00 - 07:15 pm	H-SS	000G9	Haynes,W	
			Communication Intensive							
			MOTR COMM 110: Fundamentals of Public Speaking							
	3.0- 3.0	72989	LEC	1R	MWF	12:00 - 12:50 pm	H-SS	000G9	Devault,T	
			Communication Intensive							
			MOTR COMM 110: Fundamentals of Public Speaking							
2000 Special Problems	0.0- 6.0	71234	IND	6A	ARR	ARR	ARR		Haynes,W	
2181 Communication Theory	3.0- 3.0	70905	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00203	Deterding,A	
			Communication Emphasized							
3000 Special Problems	0.0- 6.0	70906	IND	6A	ARR	ARR	ARR		Haynes,W	
3221 Fundamentals in Photography	3.0- 3.0	71403	LEC	1A	W	06:00 - 09:00 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	71991	LEC	1B	Th	06:00 - 09:00 pm	CSF	00114	Rupert,B	
	3.0- 3.0	72896	LEC	1C	CANCELLED					
3235 Intercultural Communication	3.0- 3.0	71188	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	00104	Robertson,T	
Prerequisite: Sp&M S 2181.			Communication Emphasized							
3245 Voice, Diction and Interpretation	3.0- 3.0	72621	LEC	1A	TTh	11:00 - 12:15 pm	CASTL	00143	Stanley,J	
(Co-listed with Theatre 3245)			Field Trip Required							
3250 Interpersonal Communication	3.0- 3.0	72795	LEC	1A	TTh	02:00 - 03:15 pm	CH	00104	Haynes,W	
Prerequisite: Sp&M S 2181.										
4000 Special Problems	0.0- 6.0	71424	IND	6A	ARR	ARR	ARR		Haynes,W	
	0.0- 6.0	72897	IND	6B	ARR	ARR	ARR		Robertson,T	

Statistics

1115 Statistics For The Social Sciences I	3.0- 3.0	70907	LEC	1A	MWF	09:00 - 09:50 am	CH	00103	Koob,K	
			MOTR MATH 110: Statistical Reasoning							
3111 Statistical Tools For Decision Making	3.0- 3.0		LEC	1A	TTh	02:00 - 02:50 pm	CS	00205	Koob,K	
Prerequisite: Math 1208 or 1212 or 1214 with a grade of "C" or better.	3.0- 3.0	71037	LAB	3A	W	02:00 - 03:50 pm	CS	00206	Koob,K	
3113 Applied Engineering Statistics	3.0- 3.0	70908	LEC	1A	MWF	10:00 - 10:50 am	CH	00104		
Prerequisite: Math 1215 or 1221 with a grade of "C" or better.			All students in STAT 3113 are scheduled for exams at 5:00pm-5:50pm on Thurs. Feb. 8, Thurs. March 8, and Wednesday April 25.							
	3.0- 3.0	70909	LEC	1B	MWF	11:00 - 11:50 am	CH	00104		
			All students in STAT 3113 are scheduled for exams at 5:00pm-5:50pm on Thurs. Feb. 8, Thurs. March 8, and Wednesday April 25.							
	3.0- 3.0	71193	LEC	1C	TTh	09:30 - 10:45 am	MCNT	00212		
			All students in STAT 3113 are scheduled for exams at 5:00pm-5:50pm on Thurs. Feb. 8, Thurs. March 8, and Wednesday April 25.							
	3.0- 3.0	71194	LEC	1D	TTh	11:00 - 12:15 pm	MCNT	00211		
			All students in STAT 3113 are scheduled for exams at 5:00pm-5:50pm on Thurs. Feb. 8, Thurs. March 8, and Wednesday April 25.							
	3.0- 3.0	72633	LEC	1E	MWF	01:00 - 01:50 pm	CS	00202		
			All students in STAT 3113 are scheduled for exams at 5:00pm-5:50pm on Thurs. Feb. 8, Thurs. March 8, and Wednesday April 25.							
	3.0- 3.0	72878	LEC	1F	MWF	02:00 - 02:50 pm	TMH	00256		
			All students in STAT 3113 are scheduled for exams at 5:00pm-5:50pm on Thurs. Feb. 8, Thurs. March 8, and Wednesday April 25.							
3115 Engineering Statistics	3.0- 3.0	70911	LEC	1A	MWF	08:00 - 08:50 am	BCH	00314		
Prerequisite: Math 1215 or 1221 with a grade of "C" or better.	3.0- 3.0	70910	LEC	1B	MWF	09:00 - 09:50 am	BCH	00314		
	3.0- 3.0	71195	LEC	1C	TTh	06:00 - 07:15 pm	CH	00104		
	3.0- 3.0	71915	LEC	1D	TTh	03:30 - 04:45 pm	CS	00205		
	3.0- 3.0	73080	LEC	1E	TTh	11:00 - 12:15 pm	CSF	00G5D		
3117 Introduction To Probability And Statistics	3.0- 3.0	70912	LEC	1A	TTh	11:00 - 12:15 pm	CSF	00G5E	Ong,V	
Prerequisite: Math 2222 with a grade of "C" or better.	3.0- 3.0	72879	LEC	1B	CANCELLED					

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4000 Special Problems	0.0- 6.0	70913	IND	6A	ARR	ARR	ARR		Adekpedjou,A
	0.0- 6.0	71735	IND	6B	ARR	ARR	ARR		Samaranayake,V
4099 Undergraduate Research Prerequisite: Consent of instructor.	0.0- 6.0	72123	IND	6A	ARR	ARR	ARR		Olbricht,G
5346 Regression Analysis Prerequisites: Math 2222 and one of Stat 3111, 3113, 3115, 3117, or 5643. (Co-listed with Comp Sci 5204)	3.0- 3.0	71132	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00249	Koob,K
5643 Probability And Statistics Prerequisite: Math 2222.	3.0- 3.0	70914	LEC	1A	TTh	09:30 - 10:45 am	CS	00203	Wen,X
5644 Mathematical Statistics Prerequisite: Stat 5643.	3.0- 3.0	71033	LEC	1A	MWF	10:00 - 10:50 am	ROLLA	000G4	Adekpedjou,A
5755 Statistical Models in Actuarial Science Prerequisite: Stat 5643 and either Stat 5644 or a 3000-level Stat course. (Co-listed with Econ 4350)	3.0- 3.0	72880	LEC	1A	CANCELLED				
6000 Special Problems	0.0- 6.0	70915	IND	6A	ARR	ARR	ARR		Adekpedjou,A
	0.0- 6.0	70916	IND	6B	ARR	ARR	ARR		Samaranayake,V
6001 Special Topics Prerequisites: Math 22 and one of Stat 211, 213, 215, 217 or 343.	3.0- 3.0	73529	LEC	1A	TTh	02:00 - 03:15 pm	ROLLA	000G4	Paige,R
	3.0- 3.0	73530	LEC	1B	TTh	03:30 - 04:45 pm	CS	00207	Paige,R
6099 Research	0.0-15.0	70917	IND	6A	ARR	ARR	ARR		Adekpedjou,A
	0.0-15.0	70918	IND	6B	ARR	ARR	ARR		Olbricht,G
	0.0-15.0	71077	IND	6C	ARR	ARR	ARR		Paige,R
	0.0-15.0	71794	IND	6D	ARR	ARR	ARR		Samaranayake,V
	0.0-15.0	71821	IND	6E	ARR	ARR	ARR		Wen,X
6344 Design And Analysis Of Experiments Prerequisites: One of Stat 5353, Eng Mgt 5715 and one of Stat 3111, 3113, 3115, 3117, 5643; or Stat 5643 and one of Stat 3111, 3113, 3115, 3117.	3.0- 3.0	71672	LEC	1A	TTh	09:30 - 10:45 am	CH	00105	Samaranayake,V
6554 Linear Statistical Models II Prerequisite: Stat 6553.	3.0- 3.0	73528	LEC	1A	TTh	11:00 - 12:15 pm	CS	00207	Wen,X
6658 Advanced Mathematical Statistics II Prerequisite: Stat 6657.	3.0- 3.0	72881	LEC	1A	CANCELLED				
6841 Stochastic Processes Prerequisites: Stat 5643 and Math 3304 or 3329.	3.0- 3.0	73527	LEC	1A	MWF	09:00 - 09:50 am	ROLLA	000G4	Adekpedjou,A

Systems Engineering

5040 Oral Examination	0.0- 0.0	71526	IND	6A	ARR	ARR	ARR		Dagli,C
5101 System Engineering and Analysis Prerequisite: Graduate Standing.	3.0- 3.0	71326	LEC	1A	M	04:00 - 06:30 pm	BERTELS	00B12A	Pape II,L
5212 Introduction to Neural Networks and Applications Prerequisites: Graduate Standing. (Co-listed with Elec Eng 5370)	3.0- 3.0	71850	LEC	1A	T	07:00 - 09:30 pm	LIB	000G14	Dagli,C
6050 Continuous Registration	1.0- 1.0	71249	IND	6A	ARR	ARR	ARR		Long,S
6099 Research Prerequisite: Graduate standing.	1.0-15.0	72020	IND	6A	ARR	ARR	ARR		Corns,S
	1.0-15.0	72021	IND	6B	ARR	ARR	ARR		Cudney,E
	1.0-15.0	72022	IND	6C	ARR	ARR	ARR		Dagli,C
	1.0-15.0	72023	IND	6D	ARR	ARR	ARR		Enke,D
	1.0-15.0	72024	IND	6E	ARR	ARR	ARR		Gosavi,A
	1.0-15.0	72025	IND	6F	ARR	ARR	ARR		Long,S
	1.0-15.0	72026	IND	6G	ARR	ARR	ARR		Qin,R
	1.0-15.0	72027	IND	6H	ARR	ARR	ARR		Raper,S
6102 Information Based Design Prerequisites: Graduate Standing.	3.0- 3.0	71044	LEC	1A	T	04:00 - 06:30 pm	LIB	00316	Qin,R
6103 Systems Life Cycle Costing Prerequisites: Graduate Standing.	3.0- 3.0	71313	LEC	1A	M	04:00 - 06:30 pm	LIB	00316	Yildirim,G
6104 Systems Architecting Prerequisites: Graduate Standing.	3.0- 3.0	71045	LEC	1A	M	04:00 - 06:30 pm	TMH	00260	Dagli,C
6110 Risk Modeling and Optimization under Uncertainty Prerequisite: Graduate standing.	3.0- 3.0	72779	LEC	1A	MWF	12:00 - 12:50 pm	LIB	000G14	Qin,R

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6196 Systems Engineering Capstone Prerequisites: Sys Eng 6105.	3.0- 3.0	71315	LEC	1A	M	07:00 - 09:30 pm	LIB	00316	Pape II,L
6216 Advanced Topics in Data Mining Prerequisite: A "C" or better grade in Comp Sci 5001 Introduction to Data Mining . (Co-listed with Comp Sci 6402 and Comp Eng 6302)	3.0- 3.0	72506	LEC	1A	MWF	03:00 - 03:50 pm	BERTELS	00B12A	Leopold,J
6321 Modeling Complex Systems Prerequisites: Graduate Standing. (Co-listed with COMP ENG 6410)	3.0- 3.0	72459	LEC	1A	W	04:00 - 06:30 pm	TMH	00260	Dagli,C
6322 Resilient Networks Prerequisites: Sys Eng 6410, Comp Eng 6410, or Comp Eng 5420. (Co-listed with COMP ENG 6322)	3.0- 3.0	73284	LEC	1A	Th	04:00 - 06:30 pm	BERTELS	00B12A	Cetinkaya,E
6324 Wireless Ad hoc and Sensor Networks Prerequisite: Comp Eng 5430 or Comp Eng 5420 or equivalent. (Co-listed with Comp Eng 6420 and Elec Eng 6430)	3.0- 3.0	72665	LEC	1A	MWF	08:00 - 08:50 am	FUL	00107A	Zawodniok,M
6542 Model Based Systems Engineering Prerequisites: Graduate Standing. (Co-listed with COMP SCI 6102)	3.0- 3.0	72567	LEC	1A	F	04:00 - 06:30 pm	LIB	000G14	Do,Q
6615 Financial Risk Management Prerequisite: Eng Mgt 1210 or 5210. (Co-listed with Eng Mgt 6615)	3.0- 3.0	73349	LEC	1A	TTh	12:30 - 01:45 pm	LIB	000G14	Enke,D

Technical Communication

1600 Introduction to Technical Communication Prerequisite: English 1120. (Co-listed with English 1600)	3.0- 3.0	71153	LEC	1A	MWF	11:00 - 11:50 am	MCNT	000B14	
	3.0- 3.0	71604	LEC	1B	TTh	11:00 - 12:15 pm	H-SS	00102	
	3.0- 3.0	72324	LEC	1C	MWF	09:00 - 09:50 am	H-SS	00102	Davis,C
2560 Technical Marketing Communication Prerequisites: English 1600 or Tch Com 1600 or English 1160. (Co-listed with English 2560)	3.0- 3.0	71671	LEC	1A	MWF	11:00 - 11:50 am	CSF	00114	Roberson,E
	3.0- 3.0	71091	LEC	1B	ARR	ARR	ARR		Wright,M
3000 Special Problems	0.0- 6.0	71172	IND	6A	ARR	ARR	ARR		Wright,M
3550 Writing for Social Media Prerequisites: One semester of college composition or technical writing. (Co-listed with ENGL 3550)	3.0- 3.0	73311	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00102	Davis,C
3570 Writing in the Sciences	3.0- 3.0	72589	LEC	1A	ARR	ARR	ARR		Malone,E

Course meets second 8 weeks of the semester.

UM Shared Course-Secondary

Technical Communication

3580 Business Communication Prerequisites: One semester of college composition or technical writing.	3.0- 3.0	73310	LEC	1A	ARR	ARR	ARR		Malone,E
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Class will meet the first 8 weeks of the semester.

Technical Communication

4085 Internship Prerequisites: Must have completed 24 hours in the major core curriculum.	0.0- 6.0	71173	IND	6A	ARR	ARR	ARR		Wright,M
	0.0- 6.0	72637	IND	6B	ARR	ARR	ARR		Northcut,K
4099 Research	0.0-15.0	73554	IND	6A	ARR	ARR	ARR		Bryan,E
4410 Theory and Practice of Technical Communication Prerequisites: Tch Com 1600 or English 1600; Tch Com 2540 or English 2540.	3.0- 3.0	73309	LEC	1A	TTh	02:00 - 03:15 pm	CSF	00114	Northcut,K
									Prerequisite
4520 Help Authoring Prerequisites: One semester of college composition or technical writing, or graduate standing.	3.0- 3.0	73313	LEC	1A	TTh	09:30 - 10:45 am	CSF	00114	Wright,M
5000 Special Problems	0.0- 6.0	71624	IND	6A	ARR	ARR	ARR		Malone,E
5040 Oral Examination	0.0- 0.0	71464	IND	6A	ARR	ARR	ARR		Wright,M
5099 Research	0.0-15.0	71159	IND	6A	ARR	ARR	ARR		Malone,E
	0.0-15.0	71409	IND	6B	ARR	ARR	ARR		Northcut,K
	0.0-15.0	72606	IND	6C	ARR	ARR	ARR		Wright,M

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5550 Advanced Proposal Writing Prerequisites: Graduate standing.	3.0- 3.0	73315	LEC	1A	TTh	12:30 - 01:45 pm	CSF	00114	Northcut,K
			Prerequisite						
Theatre									
1142 Stage Productions, Performers Prerequisite: Participants selected by audition.	1.0- 1.0	72096	LAB	3A	ARR	ARR	ARR		Stanley,J
1143 Stage Productions, Technicians	1.0- 1.0	71305	LAB	3A	ARR	ARR	ARR		Gruenloh,T
1190 Theatre via Video	3.0- 3.0	72898	LEC	1A	TTh	09:30 - 10:45 am	H-SS	000G8	Gruenloh,T
			MOTR THEA 100A: Theatre Appreciation						
			Field Trip Required						
2000 Special Problems	0.0- 6.0	71362	IND	6A	ARR	ARR	ARR		Shaw,K
	0.0- 6.0	71363	IND	6B	ARR	ARR	ARR		Stanley,J
2001 Special Topics	3.0- 3.0	73488	LEC	1A	W	02:00 - 04:50 pm	CASTL	00143	Gruenloh,T
			From Stage to Video Games						
3000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	71084	IND	6A	ARR	ARR	ARR		Shaw,K
	0.0- 6.0	73079	IND	6B	ARR	ARR	ARR		Stanley,J
3241 Acting II Prerequisite: Theatre 2141.	3.0- 3.0		LEC	1A	TTh	03:30 - 04:45 pm	CASTL	00143	Stanley,J
	3.0- 3.0	71857	LAB	3A	ARR	ARR	CASTL	00143	Stanley,J
3243 Entertainment Design	3.0- 3.0		LEC	1A	M	03:00 - 03:50 pm	ARR		Shaw,K
	3.0- 3.0	71451	LAB	3A	W	03:00 - 05:00 pm	ARR		Shaw,K
3245 Voice, Diction and Interpretation (Co-listed with SP&M S 3245)	3.0- 3.0	72620	LEC	1A	TTh	11:00 - 12:15 pm	CASTL	00143	Stanley,J
			Field Trip Required						
4000 Special Problems	0.0- 6.0	71443	IND	6A	ARR	ARR	ARR		Shaw,K